### **POLYMER AUTHOR INDEX VOLUME 25 1984**

- Abdel-Azim A. Abdel-Azim and Huglin, Malcolm H.: Interaction parameters in ternary polystyrene solutions at high temperature, 803
- Adamiec, Leon.: see Porejiko, Stanislaw, 722 Affrossman, Stam'eu,: see Sharma, Varinder K., 1090
- Akbulut, U., Eren, S. and Toppare, L.-K.: K., 1090
- Akbulut, U., Eren, S., and Toppare, L. K.: Electro-initiated cationic polymerization of α-methylstyrene by direct electron transfer, 1028
- Akbulut, U.: see Toppare, L., 1655
  Alimoglu, A. K., Ledwith, A., Gemlell,
  P. A., Gray, G. W. and Lacy, D.:
  Polymers with rigid anisotropic side groups: 1. Side chain induced crystallinity in substituted biphenyl acrylates and methacrylates, 1342
- Allen, G., Chai, Z., Chong, C. L., Higgins, J. S. and Tripathi, J.: Thermodynamics of oligomeric binary mixtures of polyethylene glycol and polypropylene glycol methylethers, 239
- Allen, G.: see Sardelis, K., 1011
  Amis, Eric J., Han, Charles C. and
  Matsushita, Yushu,: Dynamic light
  scattering measurements of polystyrene in
  semidilute theta solutions, 650
- Ahmed, I., Pritchard, J. G. and Blakely, C. F.: Studies on the characterization of partly hydrolysed derivatives of poly(vinyl acetate) and their red iodine complex, 543
- Ando, Tadanao,: see Kataoka, Seiichi, 507 Angiolini, L., see Tanzi, M. C., 863 Aoyanagi, Y.: see Saeki, S., 1779
- Arai, Koichi; Ueda-Mashima, Chizuru; Kotaka, Tadao; Yoshimura, Kenhi and Murayama, Kazunaga,: Morphology control of a poly(styrene-butadiene-b-4vinylpyridine) ABC three-block polymer by binary solvent casting, 230
- Arshady, Reza,: see Reddy, Boreddy, S. R.,
- Arshady, Reza, Reddy, Boreddy, S. R. and George, Maurice H.: Synthesis of electroreactive polymers from poly(m,p-chloromethylstyrene) and copoly(m,p-chloromethylstyrene-styrene), 717
- Arshady, Reza, Reddy, Boreddy S. R. and George, Maurice H.: Copoly(m,p-chloromethylstyrene-50% styrene): Copolymer molecular weights, fractionation and derivation, 1161
- Audebert, Roland,: see Mabire, Frederic, 1317 Aylwin, P. A. andBoyd, R. H.: Aliphatic
- polyesters as models for relaxation processes in crystalline polymers: 1. Characterization, 323 Aylwin, P. A.: see Boyd, R. H., 330
- Aylwin, P. A.: see Boyd, R. H., 330 Aylwin, P. A.: see Boyd, R. H., 340 Azuma, Taiji,: see Ouchi, Tatsuro, 412
- Bailly, C.: see Legras, R., 835
  Bain, D. R. and Wagner, J. D.: Molecular
  weight distribution of phenol-formaldehyde
  resols by high performance gel permeation
  chromatography, 403
- Baker, F. S., Jones, M., Lewis, T. J., Privett, G., Crofton, D. J. and Pethrick, R. A.: Dielectric studies of nitrocellulose-nitroglycerine mixtures, 815

- Balard, H.: see Hommel, H., 1297
  Bamford, C. H. and Hirooka, M.: Studies of absolute rate coefficients in alternation copolymerization by observation of preand after-effects, 1791
- Bannister, D. J., Davies, G. R., Ward, I. M. and McIntyre, J. E.: Ionic conductivities for poly(ethylene oxide) complexes with lithium salts of monobasic and dibasic acids and blends of poly(ethylene oxide) with lithium salts of anionic polymers, 1201
- Bannister, D. J., Davies, G. R., Ward, I. M. and McIntyre, J. E.: Ionic conductivities of poly(methoxy polyethylene glycolmonomethacrylate) complexes with LiSO<sub>3</sub>CH<sub>3</sub>, 1600
- Banu, D.: see Feldman, D., 1603 Barbucci, R.: see Tanzi, M. C., 863 Barlow, J. W.: see Paul, D. R., 487 Barone, V.: see Tanzi, M. C., 863 Barozzi, C.: see Tanzi, M. C., 863 Barrie, James A.: see Egboh, Sunday H.,
- Bartczak, Z.: see Galeski, A., 1323
  Bartos, J. and Tino, J.: Study of the mechanism of macroradical reactions in solid polymers: 1. Molecular aspects of reactivity and activation energy model of reactions. 274
- Bassett, D. C. and Olley, R. H.: On the lamellar morphology of isotactic polypropylene spherulites, 935
- Bauwens, J.-C.: Attempt to correlate the yield processes above and below the glass transition in glassy polymers, 1523
- Baysal, Bahattin M.: see Kisakurek, Duygu,
- Baszkin, A.: see Catoire, B., 766
  Bednar, B., Devaty, J., Koupolova, B.,
  Kralicek, J. and Tuzar, Z.: Micellization
  of three-block copolymer poly [styrene-b(ethene-co-butene)-b-styrene] mixed
  solvents of tetrahydrofuran/ ethanol, 1178
- Beevers, M. S. and Mumby, S. J.: Dipole moments and statistical conformations of cyclic and linear dimethylsiloxane oligomers, 1122
- Belfiore, L. A., Henrichs, P. M. and Cooper, S. L.: Diluent effects on carbonate mobility in bisphenol-A polycarbonate in the solid state, 452
- Belfiore, Laurence A. and Cooper, Stuart L.: Mixing effects on the mid-kilohertz mobility of polystyrene-diluent blends, 645
- Benmouna, M.: see Benoit, H., 1059 Benoit, H. and Benmouna, M.: Scattering from a polymer solution at an arbitrary concentration, 1059
- Berent-Zakrzewska, Ewa,: see Porejiko, Stanislaw, 722
- Berger, Joseph,: Light-sensitive elastomers modified by 4-N-dimethylmaleimidobenzenesulphenyl chloride, 1629
- Bhattacharyya, K. K.: see Sagu, M. L., 1193 Bhatty, J. I.: see Shah, T. H., 1333
- Bhuiyan, A. L.: Some aspects of the thermal stability action of the structure in aliphatic polyamides and polyacrilamides, 1699
- Bier, Gerhard,: see Kricheldorf, Hans R., 1151

- Billard, J.: see Noel, C., 263 Blaga, A.: see Feldman, D., 1603 Blackwell, John,: see Chivers, Robin A., 435 Blair, Hal S. and McArdle, Ciaran B.: Photoresponsive polymeric systems. Mixed monomolecular films of some synthetic polymers and indolinospiropyrans, 999
- Blair, Hal S. and McArdle, Ciaran B.:
  Photoresponsive polymers: 2. The
  monolayer behaviour of photochromic
  polymers containing aromatic azobenzene
  residues. 1347
- residues, 1347
  Blakely, C. F.: see Ahmed, I., 543
  Block, H., Gosling, J. J. and Walker, S. M.:
  The dielectric properties of poly
  (dexylisocyanate) solutions in electric
  fields, 1465
- Blubaugh, E. A.: see Chiang, C. K., 1112 Birshstein, T. M. and Zhulina, E. B.: Conformations of star-branched macromolecules, 1453
- Bond, R., Morton, G. F. and Krol, L. H.: A tailor-made polymer for tyre applications, 137
- Bootsma, Jan P. C., Wolsink, H. W., Challa, G. and Muller, F.: Polymer-bound flavins: 2. Immobilization of linear flavincontaining polyelectrolytes by absorption onto silica, 1327
- Bopp, R. C.: see Maconnachie, A., 357 Bosio, L.: see Noel, C., 263 Bosio, L.: see Noel, C., 808 Bosio, L.: see Noel, C., 1281
- Bott, David C.: see Edwards, John H., 395 Bouriot, P.: see Catoire, B., 766
- Boyd, R. H. and Aylwin, P. A.: Aliphatic polyesters as models for relaxation processes in crystalline polymers: 2. Dielectric relaxation in copolymers of adipic acid with 1, 6- and 2, 5-hexanediols, 330
- Boyd, R. H. and Aylwin, P. A.: Aliphatic polyesters as models for relaxation processes in crystalline polymers: 3.

  Mechanical relaxation in copolymers of adipic acid with 1, 6- and 2, 5-hexanediols, 340.
- Boyd, R. H. and Hasan, A. A.: Aliphatic polyesters as models for relaxation processes in crystalline polymers: 4. Dielectric relaxation in oriented specimens, 347
- Boyd, R. H.: see Aylwin, P. A., 323 Briggs, D.: New developments in polymer surface analysis, 1379
- Brown, G. R.: see Turturro, Guilio, 659 Brown, I. M., Sandreczki, T. C. and Morgan, R. J.: Electron paramagnetic resonance studies of Kevlar 49 fibres: Stress-induced free radicals, 759
- Brown, Wyn,: The concentration dependence of diffusion in semi-dilute polymer solutions, 680
- Bugada, Daniele C. and Rudin, Alfred,: Characterization of poly (vinyl alcoholacetate) by <sup>13</sup>C n.m.r. and thermal analyses, 1759
- Bunn, A.: see Vile, J., 1173
- Burfield, David R., Lim, Kooi-Ling, Law, Kia-Sang and Ng, Soon,: Analysis of epoxidized natural rubber. A comparative study of d.s.c., n.m.r., elemental analysis and direct titration methods, 995

Burfield, David R.: Ziegler-Natta polymerization. The nature of the propagation step, 1645 Burfield, David R.: The synthesis of low

Burfield, David R.: The synthesis of low molecular weight hydroxy-tipped polyethylene and polypropylene by the intermediacy of Ziegler-Natta catalysts, 1817

Burfield, David R.: Comparitive d.s.c. studies of the crystallization of natural rubber and its synthetic analogues, 1823

Calvert, P. D. and Ryan, T. G.: Reversible secondary crystallization during cooling of polypropylene, 921

Campbell, D. S., Loeber, D. E. and Tinker,
A. J.: Graft copolymers from
azodicarboxylate-functional pre-polymers:
1. Synthesis of azodicarboxylate-functional
polystyrene, 1141

Campbell, D. S. and Tinker, A. J.: Graft copolymers from azodicarboxylate-functional pre-polymers: 2. Preparation in solution of graft copolymers of polydiene with polystyrene, 1146

Campos, A., Celda, B., Mora, J. and Figueruelo, J. E.: Interaction parameters in the n-undecane/butanone/poly (dimethylsiloxane) system, 1479

Canetti, M.: see Vicini, L., 1774 Capillon, J.: see Ricard, A., 1136

Carfagna, C., De Rosa, C., Guerra, G. and Petraccone, V.: Recrystallization kinetics of isotactic polypropylene (α form), 1462
 Castles, Janis L.: see Vallance, Michael A.,

1734
Catoire, B., Bouriot, P., Demuth, O.,
Baszkin, A. and Chevrier, M.: Physico-

chemical modifications of superficial regions of low-density polyethylene (LDPE) film under corona discharge, 766

Celda, B.: see Campos, A., 1479
Chai, C. K. and McCrum, N. G.: The freezing-in of non-equilibrium values of the limiting compliances as a mechanism

of physical ageing, 291 Chai, Z.: see Allen, G., 239

Challa, G.: see Bootsma, Jan P. C., 1327
Chang, Shu-Sing,: Migration of low
molecular weight components from
polymers: 1. Methodology and diffusion
of straight chain octadecane in polyolefins,
209

Charbonnel, M.: see Galtier, M., 1253 Charlet, G., Delmas, G., Revol, J. F. and St. J. Manley, R.: Effect of solvent on the polymorphism of poly (4-methylpentene-1): 1. Solution grown single crystals, 1613

Charlet, Gerard and Delmas, Genevieve,:
Effect of solvent on the polymorphism of
poly(4-methylpentene-1): 2. Crystallization in semi-dilute solutions, 1619

Chatani, Yozo,: see Tashiro, Kohji, 195 Chatterjee, S. K. and Sethi, K. R.: Selective intermacromolecular complex formation between phenolic and nonionic polymers, 1367

Chen, F. C.: see Leung, W. P., 447
Chen, Show-An, and Lin, An-Shung.:
Kinetics and mechanism of cationic oligomerization of styrene using poly (styrenesulphonic acid) resin as catalyst, 1496

Cheng, G. L.: see Walsh, D. J., 495 Cheng, G. L.: see Walsh, D. J., 499 Cheng, Wei-zhuang,: see Yu, Tong-yin, 1363 Cherry, B. W.: see Hin, Teoh Swee, 727 Chevrier, M.: see Catoire, B., 766 Chiang, C. K., Blaubaugh, E. A. and Yap, W. T.: Electrochemical studies on doping of polyacetylene, 1112

Chivers, Robin, A., Blackwell, John, and Gutierrez, Genaro A.: The structure of copoly(4-hydroxybenzoic acid/2-hydroxy-6-naphthoic acid): 2. An atomic model for the copolyester chain, 435

Chong, C. L.: see Allen, G., 239 Choy, C. L.: see Leung, W. P., 447

Chujo, Riichiro,: see Inoue, Yoshio, 1640 Clark, D. T. and Munro, H. S.: An e.s.c.a. investigation of the surface oxidation of bisphenol-A polycarbonate films induced by reactive oxygen species, 826

Cohen, Claude,: see Hsu, Tsong-Pin, 1419 Cooper, S. L.: see Belfiore, L. A., 452 Cooper, Stuart L.: see Belfiore, Laurence A., 645

Cooper, Stuart L.: see Hwang, Kirk K. S., 947

Cooper, Stuart L.: see Vallance, Michael A., 1734

Cowie, J. M. G. and McEwen, I. J.: Upper and lower critical solution temperatures for polystyrene in methyl cyclopentane and in dimethyl cyclohexane, 1107 Crissman, J. M.: see Zapas, L. J., 57 Crofton, D. J.: see Baker, F. S., 815 Cudby, M. E. A.: see Hendra, P. J., 785 Cudby, M. E. A.: see Vile, J., 1173 Curro, J. J. and Roe, Ryong-Joon,:

Isothermal relaxation of specific volume and density fluctuation in poly (methyl methacrylate) and polycarbonate, 1424 Czerwinska, Elzbieta,: see Sikorski, Ryszard T., 1371

Danhelka, Jarda,: see Winnik, Mitchell A., 91

Daumerie, M.: see Legras, R., 835 Dave, A. M.: Synthesis of lead dimethacrylate, 1020

Davies, G. R.: see Orchard, G. A. J., 1203 Davies, G. R.: see Bannister, D. J., 1291

Davies, G. R.: see Bannister, D. J., 1600 De, S. K.: see Pal, Pranab K., 855 Dean, G. D.: see Read, B. E., 1679

de Boer, J., van den Berg, H.-J. and Pennings, A. J.: Crosslinking of ultra-high molecular weight polyethylene in the oriented state with dicumylperoxide, 513

de Cindio, B.: Stress relaxation of polymer melts subjected to large uniaxial tension, 1049

Deffieux, Alain, Subira, Franck and Stannett, Vivian T.: <sup>13</sup>C n.m.r. study of solvation mechanisms in the radiationinduced polymerization of ethers, 1131

Dekoninick, J. M.: see Legras, R., 835 Delmas, G.: see Charlet, G., 1613 Delmas, Genevieve,: see Charlet, Gerard, 1619

Deloche, Bertrand,: see Dubault, Andre, 1405

Demuth, O.: see Catoire, B., 766 De Rosa, C.: see Carfagna, C., 1462 Devaleriola, Michel,: see Tricot, Michel, 1397

Devaty, J.: see Bednar, B., 1178 Dickens, B., Martin, J. W. and Waksman, D.: Thermal and photolytic degradation of plates of poly (methyl methacrylate) containing monomer, 706

Dikov, V.: see Novakov, P., 1475 Dodgson, K.: see Edwards, C. J. C., 365 Doi, Yoshiharu,: see Inoue, Yoshio, 1640 Dollimore, D.: see Shah, T. H., 1333 Donald, A. M. and Windle, A. H.: Walls in liquid crystalline polymers: an electron microscopy study, 1235

Dubault, Andre, Deloche, Bertrand and Herz, Jean,: Effect of crosslinking density on the orientational order generated in strained networks: A deuterium magnetic resonance study, 1405

Duckett, R. A.: see Humphreys, J., 1227 Duckett, R. A.: see Guerdoux, L., 1392

Ebboh, Sunday H., George, Maurice H. and Barrie, James A.: The γ-radiation induced grafting of unsaturated segmented polyurethane with N-vinyl pyrrolidone, 1157

Ebdon, J. R., Heaton, P. E., Huckerby, T. N., O'Rouke, W. T. S. and Parkin, J.: Characterization of urea-formaldehyde and melamine-formaldehyde adducts and resins by <sup>15</sup>N n. m. r. spectroscopy, 821

Ebdon, J. R., Hourston, D. J. and Klein, P. G.: Polyurethane-polysiloxane intrepenetration polymer networks: 1. A polyether urethane poly(dimethylsiloxane) system, 1633

Eder, Marek,: see Wlochowicz, Andrzej, 1268

Edwards, C. J. C., Richards, R. W., Stepto, R. F. T., Dodgson, K., Higgins, J. S. and Semlyen, J. A.: Studies of cyclic and linear poly(dimethyl siloxanes): 14. Particle scattering functions, 365

Edwards, John H., Feast, W. James, and Bott, David C.: New routes to conjugated polymers: 1. A two step route to polyacetylene, 395

Egan, Luke,: see Winnik, Mitchell A., 1767 Eich, M., Ullrich, K., Wendorff, J. H. and Ringsdorf, H.: Pretransitional phenomena in the isotropic melt of a mesogenic side chain polymer, 1271

Ellis, T. S. and Karasz, F. E.: Interaction of epoxy resins with water: the depression of glass transition temperature, 664

Elman, J. F.: see Pochan, J. M., 1031 Elman, J. F.: see Pochan, J. M., 1040 Emel'yanov, D. N.: see Malkin, A. Ya., 778 Endo, A.: see Watanabe, Junji, 698 Eren, S.: see Akbulut, U., 1028 Eren, S.: see Toppare, L., 1655

Fayolle, B.: see Noel, C., 808
Feast, W. James,: see Edwards, John H., 395
Feldman, D., Banu, D. and Blaga, A.:
Acrylic terpolymer modified by blending with poly(organosiloxane) polymer or reinforcing, 1603

Fernandez, A. M., Widmaier, J. M., Sperling, L. H. and Wignall, G. D.: Small-angle neutron scattering from polystyrene-DVB networks containing a delta fraction of deuterated polystyrene: Evidence for aggregation during polymerization, 1718 Ferracini, E.: see Ferrero, A., 1747

Ferrero, A., Ferracini, E. and Hosemann, R.: Small-angle scattering of microparacrystal bundles in cold-drawn and annealed isotactic polypropylene, 1747

Ferruti, P.: see Tanzi, M. C., 863 Figueruelo, J. E.: see Campos, A., 1479 Fisher, M. M.: see Smith, P. M., 84 Fornes, R. E.: see Schaffer, K. R., 54

Frechet, J. M. J., Kelly, J. and Sherrington, D. C.: Some novel polymer-supported optically active phase transfer catalysts: 1. Synthesis. 1491

Friedrich, C.: see Noel, C., 263 Friedrich, C.: see Noel, C., 808 Friedrich, C.: see Noel, C., 1281 Froelich, D.: see Guerdoux, L., 1392 Fu, Shou-kuan,: see Yu, Tong-yin, 1363

Galin, J. C.: see Monroy Soto, V. M., 121 Galin, J. C.: see Monroy Soto, V. M., 254 Galin, Monique,: Gas-liquid chromatography study of poly(ethylene oxide) solvent interactions: A molecular approach to solvation mechanisms, 1784 Galeski, A., Bartczak, Z. and Pracella, M.: Spherulite nucleation in polypropylene blends with low density polyethylene, 1323 Galli, R.: see Vicini, L., 1774 Galtier, M., Charbonnel, M., Montaner, A. and Ribet, J. L.: Infra-red optical absorption of oriented polyacetylene, 1253 Gamlen, G. A.: see Shah, T. H., 1333 Gaylord, Richard J.: see Leermakers, Frans A. M., 1577 Gaymans, R. J. and Van der Ham, A. G. J.: Nylon 4, I an amorphous polyamide, 1755 Gedde, U. W. and Jansson, J. F.: Molecular fractionation in melt-crystallized polyethylene: 3. Microscopy of solvent treated samples, 1263 Geil, P. H.: see Meille, S. V., 773 Gemmell, P. A.: see Alimoglu, A. K., 1342 George, Maurice H.: see Reddy, Boreddy, S. R., 115 George, Maurice H.: see Arshady, Reza, 717 George, Maurice H.: see Egboh, Sunday H., George, Maurice H.: see Arshady, Reza, Ghatage, N. D. and Maldar, N. N.: Polyimides from dianhydride and diamine: structure property relations by thermogravimetric analysis (t. g. a.), 1353 Ghijsels, A., Groesbeek, N. and Raadsen, J.: Temperature dependence of the zero-shear melt viscosity of oligomeric epoxy resins, Gibson, Harry W.: Control of electrical properties of polymers by chemical modification, 3 Gilbert, R. D.: see Schaffer, K. R., 54 Gilli, J. M.: see Seurin, M. J., 1073 Gilmer, G. H.: see Sadler, D. M., 1446 Giuffre, L.: see Modica, G., 1513 Gomza, Yu. P.: see Lipatov, Yu. S., 459 Gonzalez, Agustin E.: Viscoelasticity of ionomer gels: 2. The elastic moduli, 1469 Gosling, J. J.: see Block, H., 1465 Grant, Warren H.: see Wang, Francis W., Gray, G. W.: see Alimoglu, A. K., 1342 Green, Peter,: see Kramer, Edward J., 473 Greenberg, A. R. and Kusy, R. P.: Quantitive evaluation of the Gibbs - Di Marzio theory of the glass transition, 927 Greenberg, A. R.: see Kusy, R. P., 600 Grobelny, J., Soko, M. and Turska, E.: A study of conformation, configuration and phase structure of polyacrylonitrile and their mutual dependence by means of WAXS and <sup>1</sup>H BL-n. m. r., 1415 Groesbeek, N.: see Ghijsels, A., 463 Grubb, David T.: see Morel, Donald E., 417 Guerdoux, L., Duckett, R. A. and Froelich,

D.: Physical ageing of polycarbonate and

PMMA by dynamic mechanical

Guerrero, Saul J.: see Zurimendi, Jon A.,

Guerra, G.: see Carfagna, C., 1462

measurements, 1392

1314

Gulari, Esin,: see Tang, Hsiang-In, 1357 Gutierrez, Genaro A.: see Chivers, Robin A., 435

Halary, J. L., Ubrich, J. M., Nunzi, J. M., Monnerie, L. and Stein, R. S.: Phase separation in polystyrene-poly(vinylmethylether) blends: a fluorescence emission analysis, 956 Hamada, F.: see Ishimuro, Y., 1258 Hamielec, A. E.: see Kim, C. J., 845 Han, Charles C.: see Amis, Eric J., 650 Hart, Edward, W.: see Kramer, Edward J., 1667 Haruvy, Y., Rajenback, L. A. and Jagur-Grodzinski, Joseph,: Grafting of acrylamide to nylon-6 by the electron beam preirradation technique: 3. Degree of crystallinity at high grafting yields, 1431 Hasan, A. A.: see Boyd, R. H., 347 Hatakeyama, Hyoe,: see Yano, Shoichiro, Hatakeyama, Tatsuko,: see Yano, Schoichiro, 890 Hatano, Akira,: Effective thickness of adsorbed polymer in a shear field, 1198 Hauptmann, Peter: Sauberlich, Ralph and Schlothauer, Klaus,: Influence of the molecular structure of poly(vinyl alcohol) on the ultrasonic absorption, 985 Hay, J. N.: see Mills, P. J., 1277 Hayashi, H.: see Ishimuro, Y., 1258 Heaton, P. E.: see Ebdon, J. R., 821 Hefford, R. J.: Polymer mixing in aqueous solution, 979 Hendra, P. J., Vile, J., Willis, H. A., Zichy, V. and Cudby, M. E. A.: The effect of cooling rate upon the morphology of quenched melts of isotactic, 785 Hendra, P. J.: see Vile, J., 1173

Henrichs, P. M.: see Belfiore, L. A., 452 Hentschel, D., Sillescu, H. and Spiess, H. W.: Deuteron n. m. r. study of chain motion in solid polyethylene, 1078 Hernandez-Fuentes, I.: see Prolongo, M. G., 1307 Hertzberg, R. W.: see Michel, J., 1527 Hertzberg, R. W.: see Michel, J., 1657 Herz, Jean,: see Dubault, Andre, 1405 Higashimura, Toshinobu,: see Masuda,

Henman, K. M.: see Willmouth, F. M., 1185

Toshio, 503 Higgins, J. S.: see Allen, G., 239 Higgins, J. S.: see Edwards, C. J. C., 365 Hill, B. J., Spragg, S. P. and McNeil Watson, F.: Residual temperature dependence of normalized diffusion of polystyrene latex in aqueous solvents, 467 Hill, D. J. T., O.Donnell, J. H. and

O'Sullivan, P. W.: Methyl methacrylatechloroprene copolymerization: an evaluation of copolymerization models,

Hin, Teoh Swee and Cherry, B. W.: Creep rupture of a linear polyethylene: 1. Rupture and pre-rupture phenomena, 727 Hirooka, M.: see Bamford, C. H., 1791 Hirschler, M. M.: Reduction of smoke formation from and flammability of thermoplastic polymers by metal oxides,

Hitchman, Michael L., Huglin, Malcolm B., Melling, Susan and Zakaria Mat B .: Observations relating to oxygen permeability measurements on membranes, 1441

Hofmann, H.: see Modica, G., 1513

Hommel, H., Legrand, A. P., Balard, H. and Papirer, E.: Influence of the solvent on the conformations of poly(ethylene oxide) chains grafted on silica, 1297 Hori, Y.: see Sakaguchi, M., 944

Hori, Yasuro; Makino, Yoshiyuki and Kashiwabara, Hisatsugu,: An e. s. r. study of the motion of peroxy radicals in isotactic polypropylenes, 1436

Horta, A.: see Prolongo, M. G., 1307 Hosaka, Yoshifumi,: see Ouchi, Tatsuro, 412 Hosemann, R.: see Ferrero, A., 1747 Hosoda, Naohiro,; Ohno, Hiroyuki and

Tsuchida, Eishun,: Mediated electron transfer reactions at electrodes coated with poly(viologen)s, 1302

Hourston, D. J.: see Ebdon, J. R., 1633 Houssier, Claude,: see Tricot, Michel, 1397 Howell, Barbara F.: see Wang, Francis W.,

Hsiue, Ging-Ho and Ma, Mu-Yuan M.: Dynamic and static properties of SBS triblock copolymer and their blends, 882 Hsu, S. L.: see Lu, F. J., 1247

Hsu, Tsong-Pin and Cohen, Claude,: Observations on the structure of a polyacrylamide gel from electron micrographs, 1419

Huckerby, T. N.: see Ebdon, J. R., 821 Huczkowski, P.: see Al-Malaika, S., 1006 Huglin, Malcolm B. and Zakaria, Mat B.: Observations on the homogeneity of crosslinked copolymers prepared by 7irradiation, 797

Huglin, Malcolm B.: see Abdel-Azim, Abdel-Azim A., 803

Huglin, Malcolm B.: see Hitchman, Michael L., 1441

Humphreys, J., Duckett, R. A. and Ward, I. M.: A broad-line n.m.r. investigation of methyl motion in poly(methyl methacrylate), 1227

Hwang, Kirk K. S., Lin, Shaow B., Tuan Tsay, Sun, and Cooper, Stuart L. Properties of oligomeric polyurethane blends versus high molecular weight block copolymers, 947

Imamura, Akira,: see Ohsaku, Masaru, 511 Imanishi, Yukio,: see Mori, Akihisa, 1837 Imoto, Minoru, : see Ouchi, Tatsuro, 412 Inaba, Masaya,: see Ouchi, Tatsuro, 412 Inoue, Yoshio,; Itabashi, Yuichi,; Chujo, Riichiro and Doi, Yoshiharu,: Studies of the stereospecific polymerization mechanism of propylene by a modified Ziegler-Natta catalyst based on 125 MHz <sup>13</sup>C n.m.r. spectra, 1640

Ishimuor, Y., Hayashi, H., Hamada, F. and Nakajima, A.: Scattering function of poly(amino acid) in helix coil transition. 1258

Isoda, Seiji,: Epitaxial synthesis of poly(pxylylene), 615

Itabashi, Yuichi,: see Inoue, Yoshio, 1640

Jagur-Grodzinski, Joseph,: see Haruvy, Yair, 1431

Jansson, J. F.: see Gedde, U. W., 1263 Jasse, B.: see Lefebvre, D., 318 Ji, Cai-gui,: see Yu, Tong-yin, 1363 Johnson, A. F.: see Pemberton, D. R., 529 Johnson, A. F.: see Pemberton, D. R., 536 Johnson, D. C.: see Viswanathan, R., 1827 Johnson, Patricia L.: see Tang, Hsiang-In, 1357

Jones, M.: see Baker, F. S., 815

Kabaivanov, V.: see Novakov, P., 1475 Kabanov, V. A.: see Kuchanov, S. I., 100 Kallo, A.: see Karger-Kocsis, J., 279 Kambour, R. P.: see Maconnachie, A., 357 Kampouris, E. M.: see Papaspyrides, C. D., 701

Karasz, F. E.: see Ellis, T. S., 664
Karbach, A.: see Krug, H., 1687
Karger-Kocsis, J., Kallo, A. and Kuleznev,
V. N.: Phase structure of impact-modified polypropylene blends, 279

Kashiwabara, H.: see Sakaguchi, M., 944 Kashiwabara, Hisatsugu,: see Hori, Yasuro, 1436

Kataoka, Seiichi and Ando, Tadanao,: Synthesis of methacrylic acid-styrene block copolymers by living radical polymerization in the presence of chitosan, 507

Kato, T., Tokuya, T., Nozaki, T. and Takahashi, A.: Molecular characterization of sodium poly(acrylate) by an aqueous g.p.c./LS method, 218

Katsuura, Tooru,: see Ouchi, Tatsuro, 412 Keenan, Joseph D.: see Stober, Eric J., 1845 Keiichiro Adachi; Ohta, Kazunobu, and Kotaka, Tadao,: Dielectric, mechanical and thermal properties of some chlorinated poly(p-phenylene oxide)s in the solid state, 625

Keith, H. D. and Padden, F. J., Jr.,: Twisting orientation and the role of transient states in polymer crystallization,

Keller, A.: see Spells, S. J., 749
Kelly, J.: see Frechet, J. M. J., 1491
Kelly, J. and Sherrington, D. C.: Some novel polymer-supported optically active phase transfer catalysts: 2. Use in displacement, reduction, epoxidation and addition reactions, 1499

Khoury, F.: see Passaglia, E., 631 Khoury, F.: see VanderHart, D. L., 1589 Kilian, H.-G.: see Vilgis, Th., 71 Kilp, Toomas,: see Kyle, Brett, R. M., 989 Kim, C. J. and Hamielec, A. E.: Polymerization acrylamide with diffusion-

controlled termination, 845 Kim, Hyo-gun,: see Murthy, N. Sanjeeva, 1093

Kimmich, R.: Characteristic molecular weights in the dynamics of polymer melts: n.m.r. and zero-shear viscosity, 187

Kimura, Keiichiro, Yuasa, Sakae, and Maru, Yasamitzu,: Carbon-13 nuclear magnetic resonance study of ethylene-a octene and ethylene-4-methyl-1-pentene copolymers, 441

Kimura, Keiichiro; Yuasa, Sakae, and Maru, Yasamitsu,: Carbon-13 nuclear magnetic resonance study of ethylene-1 octene and ethylene-4-methyl-1-pentene copolymers, 441

King, T. A.: see Viras, F., 899
King, T. A.: see Viras, F., 1411
Kinpara, H.: see Sakaguchi, M., 944
Kisakurek, Duygu and Baysal, Bahattin M.:
Characterization of styrene-ethylene oxide
and methyl methacrylate-styrene block
copolymers by light scattering, 693
Kitaigorodsky, A. I.: see Pertsin, A. J., 107
Klein, P. G.: see Ebdon, J. R., 1633
Kobayashi, Masamichi,: see Tashiro, Kohji,

Koberstein, Jeffrey, T. and Stein, Richard S.: Small-angle light scattering studies of macrophase separation in segmented polyurethane block copolymers, 171 Kong, Fung-Ming, see Morgan, Roger L.

Kong, Fung-Ming,: see Morgan, Roger J., 375

Konishi, T.: see Meille, S. V., 773

Korodi, T., Marcu, N. and Tirnaveanu, Al.: Polyurethane microcellular elastomers: 2. Effect of chain extender on the mechanical properties, 1211

Korolev, S. V.: see Kuchanov, S. I., 100 Korshak, V. V., Rusanov, A. L. and Tugushi, D. S.: Reductive polyheterocyclization: A new approach to the synthesis of polyheteroacrylenes, 1539

Kosmas, Marios K.: see Vlahos, Costas H., 1607

Kotaka, Tadao,: see Arai, Koichi, 230
Kotaka, Tadao,: see Adachi, Keiichiro, 625
Koupalova, B.: see Bednar, B., 1178
Kralicek, J.: see Bednar, B., 1178
Kramer, Edward J., Green, Peter, and
Palmstrom, Christopher J.: Interdiffusion
and marker movements in concentrated
polymer-polymer diffusion couples, 473

Kramer, Edward J. and Hart, Edward W.: Theory of slow, steady state crack growth in polymer glasses, 1667

Kricheldorf, Hans R. and Schwarz, G.: New polymer syntheses: 10. Syntheses of high molecular weight poly(4-hydroxybenzoate)s by bulk condensations of 4hydroxybenzoic acids, 520

Kricheldorf, Hans R. and Bier, Gerhard,: new polymer syntheses: 11. Preparation of aromatic poly(ether ketone)s from silylated bisphenols. 1151

Krol, L. H.: see Bond, R., 137 Krug, H., Karbach, A. and Petermann, J.: Plastic deformation and subsequent crystallization of thin films of isotactic/atactic polystyrene (iPS/aPS) blends, 1687

Krzeminski, Jerzy,: see Porejiko, Stanislaw,

Kuchanov, S. I., Korolov, S. V., Zubov, V. P. and Kabanov, V. A.: Configurational statistics of copolymers prepared by complex radical polymerization, 100

Kucharski, Mieczyslaw and Ryttel, Anna,: Copolymerization of alkyl acrylates with triallyl cyanurate: Kelen-Tudös method applied for determining copolymerization reactivity ratios, 555

Kuleznev, V. N.: see Karger-Kocsis, J., 279 Kulichikhin, S. G.: see Malkin, A. Ya., 778 Kusy, R. P. and Greenberg, A. R.: Quantitative evaluation of the Gibbs theory of the glass transition, 600 Kusy, R. P.: see Greenberg, A. R., 927 Kyle, Brett R. M. and Kilp, Toomas,: Intramolecular excimer formation and

energy migration in head-to-head

Lacy, D.: see Alimoglu, A. K., 1342

polystyrene, 989

Laupretre, F.: see Noel, C., 263 Laupretre, F.: see Noel, C., 808 Law, Kia-Sang,: see Burfield, David R., 995 Law, Kock-Yee,: Fluorescence probe for

microenvironments: effect of solvent vapour on the properties of vapourswollen polymers, 399

Ledwith, A.: see Alimoglu, A. K., 1342 Lee, Ping I.: Effect of non-uniform initial drug concentration distribution on the kinetics of drug release from glassy hydrogel matrices, 973

Leermakers, Frans A. M., Scheutjens, Jan M. H. M. and Gaylord, Richard J.: Modelling the amorphous phase of a melt crystallized, semicrystalline polymer: segment distribution, chain stiffness, and deformation, 1577

Lefebvre, D., Jasse, B. and Monnerie, L.:
Orientation and relaxation in uniaxiallystretched poly(2,6-dimethyl-1,4-phenylene
oxide) – atactic polystyrene blends, 318
Legrand, A. P.: see Hommel, H., 1297
Legras, R., Bailly, C., Daumerie, M.,
Dekoninick, J. M., Mercier, J. P., Zichy,
Mrs V. and Nield, E.: Chemical
nucleation, a new concept applied to the
mechanism of action of organic acid salts
on the crystallization of polyethylene
terephthalate and bisphenol-A
polycarbonate, 835

Leon, Vladimir,: see Zurimendi, Jon A., 1314 Leung, W. P., Chen, F. C., Choy, C. L., Richardson, A. and Ward, I. M.: Ultrasonic measurements of the mechanical relaxations and complex stiffnesses in oriented linear polyethylene,

Lewis, T. J.: see Baker, F. S., 815 Li, Shan-jun,: see Yu, Tong-yin, 1363 Lianghe, Shi,: see Zhikuan, Chai, 369 Lim, Kooi-Ling,: see Burfield, David, R., 995 Lin, An-Shung,: Kinetics and mechanism of cationic oligomerization of styrene using poly(styrenesylphonic acid) resin as catalyst, 1486

Lin, Shaow B.: see Hwang, Kirk K. S., 947 Lipatov, Yu. S., Shilov, V. V., Gomza, Yu. P., Skorodzievsky, V. S., Ustinov, A. I. and Tchuistov, K. V.: Microphase structure features of network block polymer over a wide temperature range, 459

Lloyd, Douglas, R.: see Tseng, H. S., 670 Loeber, D. E.: see Campbell, D. S., 1141 Lowry, Robert E.: see Wang, Francis W., 690

Lu, F. J. and Hsu, S. L.: Spectroscopic study of the electric field induced microstructural changes in poly(vinylidene fluoride), 1247

Ma, Mu-Yuan M.: see Hsiue, Ging-Ho, 882 Mabire, Frederic; Audbert, Roland and Quivoron, Claude,: Synthesis and solution properties of water soluble copolymers based on acrylamide and quaternary ammonium acrylic comonomer, 1317

Mackenzie, C. I. and Scanlan, J.: Stress relaxation in carbon-black filled rubber vulcanizates at moderate strains, 559

Maconnachie, A., Kambour, R. P. and Bopp, R. C.: Compatibility and neutron scattering studies of mixtures of polystyrene with poly(2,6-dimethyl 1,4phenylene oxide) and its brominated derivatives, 357

Maconnachie, Ann.: On the assessment of incoherent neutron scattering intensities from polymer systems, 1068

Maiti, Sukumar and Ray, Atanu,: Processable heat-resistant polymers: 14. Polyamides and polyamideimides containing azo linkages, 551

Makino, Yoshiyuki,: see Hori, Yasuro, 1436 Malaika, S. Al., Huczkowski, P. and Scott, G.: Mechanisms of antioxidant action: effect of processing conditions on the stabilizing effectiveness of metal xanthates and related dixanthogen in polypropylene, 1006

Maldar, N. N.:see Ghatge, N. D., 1353
Malkin, A. Ya., Kulichikhin, S. G.,
Emel'yanov, D. N., Smetanina, I. E. and
Ryabokon', N. V.: Rheokinetics of free-radical polymerization, 778

```
Manson, J. A.: see Michel, J., 1527
Manson, J. A.; see Michel, J., 1657
Maquet, Brigitte,: see Tricot, Michel, 1397
Marchenko, G. N.: see Pertsin, A. J., 107
Marcu, N.: see Korodi, T., 1211
Martin, J. W.: see Dickens, B., 706
Martuscelli, E., Pracella, M. and Yue, Wang
  Ping,: Influence of composition and
  molecular mass on the morphology.
  crystallization and melting behaviour of
  poly(ethylene oxide)/poly(methyl
  methacrylate) blends, 1097
Maru, Yasumitsu,: see Kimura, Keiichiro,
Masegos, R. M.: see Prolongo, M. G., 1307
Masuda, Toshio; Yoshizawa, Tamae;
  Okano, Yoshimichi and Higashimura,
  Toshinobu,: Copolymerization of
  phenylacetylene with various acetylenes by
   W- and Mo-based catalysts, 503
Mathot, V. B. F.: Temperature dependence
  of some thermodynamic functions for
  amorphous and semicrystalline polymers,
Matsusaka, Kikou; Tanaka, Atsuo, and
  Murakami, Ichiro,: Thermal degradation
  of poly(vinyl chloride) in oxidative and
  non-oxidative atmospheres, 1337
Matsushita, Yushu,: see Amis, Eric, J., 650
Mazur, J.: see Reneker, D. H., 1549
McArdle, Ciran B.: see Blair, Hal S., 999
McArdle, Ciaran B.: see Blair, Hal S., 1347
McCrum, N. G.: see Chai, C. K., 291
McCrum, N. G.: The kinetics of the \alpha and \beta
  relaxations in isotactic polypropylene, 299
McCrum, N. G.: The kinetics of the \alpha
  relaxation in an amorphous polymer at
  temperatures close to the glass transition,
McEwen, I. J.: see Cowie, J. M. G., 1107
McGrath, James E.: see Yilgor, Iskender,
  1800
McGrath, J. E.: see Tyagi, D., 1807
McGrath, J. E.: see Viswanathan, R., 1827
McIntyre, J. E.: see Bannister, D. J., 1291
McIntyre, J. E.: see Bannister, D. J., 1600
McNeil Watson, F.: see Hill, B. J., 467
Meille, S. V., Konishi, T. and Geil, P. H.:
  Morphology of polypivalolactone: A
  polymer with a direction, 773
Melling, Susan,: see Hitchman, Michael L.,
  1441
Memory, J. D.: see Schaffer, K. R., 54
Mercier, J. P.: see Legras, R., 835
Michel, J., Manson, J. A. and Hertzberg, R.
  W.: A simple viscoelastic model for fatigue
  crack propagation in polymers as a
  function of molecular weight, 1527
Michel, J., Manson, J. A. and Hertzberg,
  R. W.: A simple viscoelastic model for
  fatigue crack propagation in polymers as
  a function of molecular weight, 1657
Michels, H. J.: see Sardelis, K., 1011
Mills, P. J. and Hay, J. N.: The lamella size
  distribution in non-isothermally
  crystallized low density polyethylene, 1277
Migliaresi, C., Nicodemo, L., Nicolais, L.
  and Passerini,: Water sorption and
  desorption in 2-hydroxyethylmeth-
  acrylate/methylmethacrylate copolymers,
  686
Mitchell, G. R. and Windle, A. H.: Structure
  of polystyrene glasses, 906
Mitchell, G. R.: A wide-angle X-ray study of
  the development of molecular orientation
  in crosslinked natural rubber, 1562
```

Mivamoto, Yoshihisa,: Dielectric relaxation

poly(vinylidene fluoride) crystal form II

and the molecular motion of

under high pressure, 63

```
Modica, G., Giuffre, L., Montoneri, E.,
   Wendt, H. and Hofman, H.: Poly-
  (vinylpyridine) divinylbenzene asbestos
  composites, 1513
Monnerie, L.: see Lefebvre, D., 318
Monnerie, L.: see Halary, J. L., 956
Monroy Soto, V. M. and Galin, J. C.:
  Poly(sulphopropylbetaines): 1. Synthesis
  and characterization, 121
Monroy Soto, V. M. and Galin, J. C.:
  Poly(sulphopropylbetaines): 2. Dilute
  solution properties, 254
Montaner, A.: see Galtier, M., 1253
Montoneri, E.: see Modica, G., 1513
Mora, J.: see Campos, A., 1479
Morel, Donald E. and Grubb, David T.:
  Craze behaviour in isotactic polystyrene:
  1. Craze spherulite interaction, 417
Morgan, Roger, J., Kong, Fung-Ming, and
   Walkup, Connie M.: Structure-property
  relations of polyethertriamine-cured
  bisphenol-A-diglycidyl ether epoxies, 375
Morgan, R. J.: see Brown, I. M., 759
Mori, Akihisa and Imanishi, Yukio,:
  Synthesis of polymers and copolymers of
  c-(NºAcryLys-Sar) and their interaction
  with small molecules in solution, 1837
Morton, G. F.: see Bond, R., 137
Muller, F.: see Bootsma, Jan P. C., 1327
Mumby, S. J.: see Beevers, M. S., 1122
Munro, H. S.: see Clark, D. T., 826
Murakami, Ichiro,: see Matsusaka, Kikuo,
  1337
Murakami, Kenkichi,: see Oikawa,
  Hidetoshi, 225
Murakami, Kenkichi,: see Oikawa,
  Hidetoshi, 1117
Murayama, Kazunaga,: see Arai, Koichi, 230
Murthy, N. Sanjeeva and Kim, Hyo-gun,:
  Molecular packing in alkylated and
  chlorinated poly-p-xylylenes, 1093
Nakajima, A.: see Ishimuro, Y., 1258
Nakamura, Masaaki,: see Takigami, Shoji,
  963
Nakamura, Yoshio,: see Takigami, Shoji,
Nakamura, Masaaki.: see Takigami, Shoji,
  968
Nakamura, Yoshio,: see Takigami, Shoji,
  968
Naoki, Motosuke and Owada, Akira,:
  Factors determining glass transition
  temperature and relaxation time of
  poly(vinyl chloride), 75
Ng. Soon,: see Burfield, David R., 995
Nicodemo, L.: see Migliaresi, C., 686
Nicolais, L.: see Miglaresi, C., 686
Nield, E.: see Legras, R., 835
Nocentini, M.: see Tanzi, M. C., 863
Noel, C., Friedrich, C., Laupretre, F.,
  Billard, J., Bosio, L. and Strazielle, C.:
  Polymers with mesogenic elements in the
  main chain: a nematic aromatic
  copolyester, 263
Noel, C., Laupretre, F., Friedrich, C.,
  Fayolle, B. and Bosio, L.: Synthesis and
  mesomorphic properties of new
  thermotropic liquid-crystalline 'backbone'
  copolyester, 808
Noel, C., Friedrich, C., Bosio, L. and
  Strazielle, C.: Thermotropic liquid
  crystalline polyesters with terphenyl
  moieties and flexible 'ether'spacers in the
  main chain, 1281
```

Novakov, P., Dikov, V. and Kabaivanov,

V.: Bulk copolymerization of methyl

1475

methacrylate and styrene in presence of an

acrylic elastomer: 1. Kinetic investigations,

```
Nugmanov, O. K.: see Pertsin, A. J., 107
Nunzi, J. M.: see Halary, J. L., 956
O'Donnell, J. H.: see Hill, D. J. T., 569
Ohno, Hiroyuki,: see Hosoda, Naohiro,
  1302
Ohsaku, Masaru, and Imamura, Akira.:
  Conformational stability of
  poly(trimethylene sulphide), 511
Ohta, Kazunobu,: see Adachi, Keiichiro, 625
Oikawa, Hidetoshi, and Murakami,
  Kenkichi,: Studies of the network
  structure of rubber vulcanizates by a
  cryoscopic method: 1., 225
Oikawa, Hidetoshi, and Murakami,
  Kenkichi,: Studies of the network
  structure of rubber vulcanizates by
  cryoscopic methods: 2., 1117
Okano, Yoshimichi,: see Masuda, Toshio,
Olley, R. H.: see Bassett, D. C., 935
Orchard, G. A. J., Davies, G. R. and Ward,
  I. M.: The thermal expansion behaviour
  of highly oriented polyethylene, 1203
O'Rourke, W. T. S.: see Ebdon, J. R., 821
O'Sullivan, P. W.: see Hill, D. J. T., 569
Ouchi, Tatsuro.; Katsuura, Tooru,; Inaba,
  Masaya,; Azuma, Taiji,; Hosaka,
  Yoshifumi, and Imoto, Minoru,: Vinyl
  polymerization: 414. Polymerization of
  vinyl monomer initiated by poly(N,N,N-
  trimethyl-N-2methacryloxyethyl)
  ammonium chloride, 412
Owada, Akira,: see Naoki, Motosuke, 75
Padden, F. J., Jr.: see Keith, H. D., 28
Pal. Pranab K. and De, S. K.; Studies on
  peroxide vulcanization of silica-filled
  EPDM rubber in presence of vinyl silane
  coupling agent, 855
Palmstrom, Christopher J.: see Kramer,
  Edward J., 473
Papaspyrides, C. D. and Kampouris, E. M.:
  Solid-state polyamidation of
  dodecamethylene-diammonium adipate,
Papirer, E.: see Hommel, H., 1297
Parkin, J.: see Ebdon, J. R., 821
Parsons, W. F. and Pochan, J. M.: Stress
  relaxation of poly(1,4-dimethylene-trans-
  cyclohexyl suberate), 1690
Parsons, W. F.: see Pochan, J. M., 1031
Parsons, W. F.: see Pochan, J. M., 1040
Passaglia, E. and Khoury, F.: Crystal
  growth kinetics and the lateral habits of
  polyethylene crystals, 631
Passaglia, E.: Distribution of stress in a
  craze of the top of a uniformly extending
  crack, 1727
Passerini, P.: see Migliarcsi, C., 686
Paton, Katherine,: see Winnik, Mitchell A.,
Paul, D. R. and Barlow, J. W.: A binary
  interaction model for miscibility of
  copolymers in blends, 487
Pekcan, Onder,: see Winnik, Mitchel, A.,
  1767
Pemberton, D. R. and Johnson, A. F.:
  Polymerization of vinyl acetate using
  visible radiation and a dye-reducing agent
  sensitizer: 1. Pre-initiation and initiation
  reactions involving ethyl eosin and
  ascorbic acid, 529
Pemberton, D. R. and Johnson, A. F.::
  Polymerization of vinyl acetate using
  visible radiation and a dye-reducing agent
  sensitizer: 2. Kinetic studies and
  polymerization mechanism, 536
Pennings, A. J.: see de Boer, J., 513
```

Nozaki, T.: see Kato, T., 218

Pereira, Jose R. C. and Porter, R. S.: Extrusion drawn amorphous and semicrystalline poly(ethylene terephthalate): 3. Linear thermal expansion analysis, 869 Pereira, Jose R. C. and Porter, Roger S.: Extrusion drawn amorphous poly(ethylene terephthalate): 4. Irreversible spontaneous elongation, 877 Pertsin, A. J., Nugmanov, O. K., Marchenko, G. N. and Kitaigorodsky, A. I.: Crystal structure of cellulose polymorphs by potential energy calculations: 1. Most probable models for mercerized cellulose, 107 Petermann, J.: see Krug, H., 1687 Pethrick, R. A.: see Baker, F. S., 815 Pethrick, Richard A.: see Sharma, Varinder K., 1087 Pethrick, Richard A.: see Sharma, Varinder K., 1090 Petraccone, V.: see Carfagna, C., 1462 Pochan, J. M., Parsons, W. F. and Elman, J. F.: Effect of morphology on the crack propagation of the semicrystalline polyester poly(1,4-dimethylene-transcyclohexyl suberate), 1031 Pochan, J. M., Elman, J. F. and Parsons, W. F.: Temperature dependence of crackpropagation parameters and crack morphology of the semicrystalline polyester poly(1,4-dimethylene-transcyclohexyl suberate), 1040 Pochan, J. M.: see Parsons, W. F., 1690 Porejiko, Stanislaw; Krzeminski, Jerzy; Adamiec, Leon and Berent-Zakrzewska, Ewa,: Tests for obtaining and investigating pre-stressed plastics, 722 Porter, R. S.: see Pereira, Jose R. C., 869 Porter, Roger S.: see Pereira, Jose R. C., 877 Pracella, M.: see Martuscelli, E., 1097 Pracella, M.: see Galeski, A., 1323 Pritchard, J. G.: see Ahmed, I., 543 Privett, G.: see Baker, F. S., 815 Prolongo, M. G., Masegosa, R. M., Hernandez-Fuentes, I. and Horta, A.: Cosolvency, coil expansion and dimensions of PMMA in mixed solvents,

Quivoron, C.: see Ricard, A., 1136 Quivoron, Claude,: see Mabire, Frederic, 1317

1307

Raadsen, J.: see Ghijsels, A., 463 Rabolt, J. F.: see Schlotter, N. E., 165 Rajenback, L. A.: see Haruvy, Yair, 1431 Rance, D. G.: see Willmouth, F. M., 1185 Ray, Arbinda and Suthar, B. P.: Electrical conductivity of polySchiff bases: a theoretical study, 129 Ray, Atanu,: see Maiti, Sukumar, 551 Read, B. E. and Dean, G. D.: Timedependent deformation and craze initiation in PMMA: volume effects, 1679 Reddy, Boreddy S. R., Arshady, Reza, and George, Maurice H.: Preparation of potentially electroactive thallium polymers derived from the acidic copolymers of maleic anhydride, 115 Reddy, S. R. Boreddy,: see Arshady, Reza, Reddy, Boreddy, S. R.: see Arshady, Reza, 1161 Redpath, A. E. C.: see Winnik, Mitchell A., Regas, F. P. and Valkanas, G. N.: Physical characterization of suspension-crosslinked

polystyrene particles and their

networks, 245

sulphonated products: 1. Nonionic

Regas, F. P.: Physical characterization of suspension-crosslinked polystyrene particles and their sulphonated products 2. Ionic networks, 249 Reneker, D. H. and Mazur, J.: Vibrations of crystallographic defects associated with a single chain in polyethylene, 1549 Revol, J. F.: see Charlet, G., 1613 Ribet, J. L.: see Galtier, M., 1253 Ricard, A., Capillon, J. and Quivoron, C.: Influence of the polymer on an anionic activation reaction promoted by a supported crown ether, 1136 Richards, R. W.: see Edwards, C. J. C., 365 Richardson, A.: see Leung, W. P., 447 Ringsdorf, H.: see Eich, M., 1271 Roe, Ryong-Joon,: see Curro, J. J., 1424 Roland, Bruno and Smid, Johannes,: Interaction of 1-pyrenebutyrate with poly(vinylbenzo-18-crown-6) and poly(vinylbenzoglyme) in water, 1166 Roy, Saroj K.: see Tsuji, Masaki, 1573 Rudin, Alfred,: see Bugada, Daniele C., 1759 Rusanov, A. L.: see Korshak, V. V., 1539 Rusconi, see Tanzi, M. C., 863 Ryabokon', N. V., see Malkin, A. Ya., 778 Ryan, T. G.: see Calvert, P. D., 921 Ryttel, Anna,: see Kucharski, Mieczyslaw,555

Sadler, D. M.: see Spells, S. J., 739 Sadler, D. M.: see Spells, S. J., 749 Sadler, D. M. and Spells, S. J.: A neutron scattering study of slowly crystallized bulk polyethylene, 1219 Sadler, D. M. and Gilmer, G. H.: A model for chain folding polymer crystals: rough faces are consistent with the observed growth rates, 1446 Sadocco, P.: see Vicini, L., 1774 Saeki, S., Aoyanagi, Y., Tsubokawa, M. and Yamaguchi, T.: Polymer-polymer interaction parameters in the ternary system polystyrene/poly (α-methyl styrene)/n-butyl chloride, 1779 Sagu, M. L. and Bhattacharyya, K. K .: Radiation-induced copolymerization of trioxane with tetrahydrofuran, 1193 St. John Manley, R.: see Tsuji, Masaki, 1573 St. J. Manley, R.: see Charlet, G., 1613 St-Pierre, L. E.: see Turturro, Guilio, 659 Sakaguchi, M., Kinpara, H., Hori, Y., Shimada, S. and Kashiwabara, H.: Ionic products from the mechanical fracture of solid polypropylene, 944 Sandreczki, T. C.: see Brown, I. M., 759 Sardelis, K., Michels, H. J. and Allen, G.: Graded block and randomized copolymers of butadiene styrene, 1011 Sarkar, Nitis,: Structural interpretation of the interfacial properties of aqueous solutions of methylcellulose and hydroxypropyl methylcellulose, 481 Sasanuma, Y.: see Watanabe, Junji, 698 Sauberlich, Ralph,: see Hauptmann, Peter, Scaia, Mark D.: see White, Jerry E., 850 Scanlan, J.: see Mackenzie, C. I., 559 Schaefer, Dale W.: A unified model for the structure in semidilute solution, 387 Schaffer, K. R., Fornes, R. E., Gilbert, R. D. and Memory, J. D.: Electron spin resonance study of a cured epoxy resin exposed to high-energy radiation, 54 Scheutjens, Jan M. H. M.: see Leermakers, Frans A. M., 1577 Schlothauer, Klaus,: see Hauptmann, Peter,

Schlotter, N. E. and Rabolt, J. F.: Raman scattering activities for partially-oriented systems: the case of a unique molecular symmetry axis perpendicular to the uniaxial direction, 165 Schwarz, G.: see Kricheldorf, Hans R., 520 Scott, G.: see Al-Malaika, S., 1006 Seferis, James C.: see Stober, Eric J., 1845 Semlyen, J. A.: see Edwards, C. J. C., 365 Sethi, K. R.: see Chatterjee, S. K., 1367 Seurin, M. J., Gilli, J. M., Ten Bosch, A., and Sixou, P.: Mesomorphic transitions in a mixture of a flexible and semi-rigid polymer, 1073 Seves, A.: see Vicini, L., 1774 Sha'aban, Ahmad K.: see Yilgor, Iskender, 1800 Shah, T. H., Bhatty, J. I., Gamlen, G. A. and Dollimore, D.: Aspects of the chemistry of poly(ethylene terephthalate): 5. Polymerization of bis(hydroxyethyl) terephthalate by various metallic catalysts, 1333 Sham, C. K.: see Walsh, D. J., 1023 Sharma, Varinder, K., Affrossman, Stanley and Pethrick, Richard A.: Poly(αmethylstyrene)-maleic anhydride copolymer: an electron beam lithographic study, 1087 Sharma, Varinder K., Affrossman, Stanley and Pethrick, Richard A.: Copolymers of 2-hydroxyethyl methacrylate and methyl methacrylate: an electron beam resist study, 1090 Sheppard, R. N.: see Zhikuan, Chai, 369 Sherrington, D. C.: see Frechet, J. M. J., 1491 Sherrington, D. C.: see Kelly, J., 1499 Shilov, V. V.: see Lipatov, Yu. S., 459 Shimada, S.: see Sakaguchi, M., 944 Sillescu, H., see Hentschel, D., 1078 Sikorski, Ryszard T. and Czerwinska, Elzbieta,: Studies on the reactivity of polymers: 2. Chlorination of poly(vinylidene chloride) by sulphuryl chloride in the presence of azobisisobutyronitrile, 1371 Sixou, P.: see Seurin, M. J., 1073 Skorodzievsky, V. S.: see Lipatov, Yu. S., Smetanina, I. E.: see Malkin, A. Ya., 778 Smid, Johannes,: see Roland, Bruno, 1166 Smith, P. M. and Fisher, M. M.: Non-Fickian diffusion of water in melamineformaldehyde resins, 84 Soko, M.: see Grobelny, J., 1415 Spells, S. J. and Sadler, D. M.: Neutron scattering studies on solution-grown crystals of polyethylene: a statistical preference for adjacent re-entry, 739 Spells, S. J., Keller, A. and Sadler, D. M.: I.r. study of solution-grown crystals of polyethylene: correlation with the model from neutron scattering, 749 Spells, S. J.: see Sadler, D. M., 1219 Sperling, L. H.: see Fernandez, A. M., 1718 Spiess, H. W.: see Hentschel, D., 1078 Spragg, S. P.: see Hill, B. J., 467 Stachurski, Z. H.: see Wu, R. Y., 1505 Stannett, Vivian T.: see Alain Deffieux, 1131 Steckle, Jr., Warren, P.: see Yilgor, Iskender, 1800 Stein, Richard, S.: see Koberstein, Jeffrey T., Stein, R. S.: see Halary, J. L., 956 Stepto, R. F. T.: see Edwards, C. J. C., 365 Stober, Eric J., Seferis, James C., and Keenan,

Joseph D.: Characterization and exposure

of poly(ether-etherketone) (PEEK) to fluid

environments, 1845

Strazielle, C.: see Noel, C., 263 Strazielle, C.: see Noel, C., 1281 Subira, Franck,: see Deffieux, Alain, 1131 Suthar, B. P.: see Ray, Arabinda, 129

Tadokoro, Hiroyuki,: Structure and properties of crystalline polymers, 147 Tadokoro, Hiroyuki,: see Tashiro, Kohji, 195

Takahashi, A.: see Kato, T., 218
Takano, Kohji,: see Tashiro, Kohji, 195
Takigami, Shoji; Nakamura, Masaaki, and
Nakamura, Yoshio,: Selective permeability
of urea and potassium chloride in
acrylamide and acrylic acid grafted
membranes, 963

Takigami, Shoji: Makamura, Masaaki and Nakamura, Yoshio,: Selective permeability of grafted nylon-6 membranes: 2. Potassium chloride permeation in acrylic acid grafted membranes, 968

 Tanaka, Atsuo.: see Matsusaka, Kikuo, 1337
 Tang, Hsiang-In; Johnson, Patricia L. and Gulari, Esin.: Styrene polymerized in an oil-in-water microemulsion, 1357

Tanzi, M. C., Rusconi, L., Barozzi, C., Ferruti, P., Angiolini, L., Nocetini, M., Barone, V. and Barbucci, R.: Synthesis and characterization of piperazine-derived poly(amido-amine)s with different distributions of amido- and amino-groups along the macromolecular chain, 863

Tashiro, Kohji; Takano, Kohji; Kobayashi, Masamichi; Chatani, Yozo, and Tadokoro, Hiroyuki,: Structure and ferroelectric phase transition of vinylidene fluoride-trifluoroethylene, 195

Tchuistov, K. V.: see Lipatov, Yu. S., 459 Ten Bosch, A.: see Seurin, M. J., 1073

Thirion, P. and Weil, T.: Assessment of the sliding link model of chain entanglement in polymer networks, 609

Tinker, A. J.: see Campbell, D. S., 1141 Tinker, A. J.: see Campbell, D. S., 1146 Tino, J.: see Bartos, J., 274

Tirnaveanu, Al.: see Korodi, T., 1211

Tokuya, T.: see Kato, T., 218

Toppare, L. K.: see Akbulut, U., 1028 Toppare, L. K., Eren, S., Turker, L. and Akbulut, U.: Electroinitiated cationic copolymerization by direct electron transfer, 1655

Tricot, Michel; Maquet, Brigitte; Devaleriola, Michel and Houssier, Claude.: Electro-optical and viscometric behaviour of sodium polystyrene sulphonate in formamide, 1397

Tripathi, J.: see Allen, G., 239
Tseng, H. S. and Lloyd, Douglas R.:
Influence of polymer molecular weight on selected thermodynamic properties of polymer/solvent systems and the application of the UNIFAC theory, 670

Tsubokawa, M.: see Sacki, S., 1779 Tsuchida, Eishun,: see Hosoda, Naohiro, 1302

Tsuji, Masaki, Roy, Saroj K. and St. John Manley, R.: Direct lattice imageing in single crystals of isotatic polystyrene, 1573 Tuan Tsay, Sun,: see Hwang, Kirk K. S.,

Tugushi, D. S.: see Korshak, V. V., 1539 Turker, L.: see Toppare, L., 1655 Turska, E.: see Grobelny, J., 1415 Turturro, Guilio, Brown, G. R. and St-Pierre, L. E.: Effect of silica nucleants on the rates of crystallization of poly(ethylene terephthalate), 659 Tuzar, Z.: see Bednar, B., 1178
Tyagi, Dinesh,: see Yilgor, Iskender, 1800
Tyagi, D., Yilgor, I., McGrath, J. E. and
Wilkes, G. L.: Segmented organosiloxane
copolymers: 2. Thermal and mechanical
properties of siloxane – urea copolymers,
1807

Ubrich, J. M.; see Halary, J. L., 956 Ueda-Mashima, Chizuru,: see Arai, Koichi, 230

Uematsu, I.: see Watanabe, J., 698 Uematsu, Ichitaro,: see Watanabe, Junji, 1711

Ullrich, K.: see Eich, M., 1271 Ustinov, A. I.: see Lipatov, Yu. S., 459

Valkanas, G. N.: see Regas, F. P., 245 Vallance, Michael A., Castles, Janis L. and Cooper, Stuart L.: Microstructure of aspolymerized thermoplastic polyurethane clastomers, 1734

van den Berg, H-J.: see de Boer, J., 513 Van der Ham, A. G. J.: see Gaymans, R. J., 1755

Van der Hart. D. L. and Khoury, F.: Quantitative determination of the monoclinic crystalline phase content in polyethylene by C n. m. r., 1589

Vicini, L., Seves, A., Canetti, M., Sadocco, P. and Galli, R.: Influence of an aqueous acetone medium on the thermal behaviour of solvent treated poly(ethylene terephthalate), 1774

Vile, J.: see Hendra, P. J., 785

Vile, J., Hendra, P. J., Willis, H. A., Cudby, M. E. A. and Bunn, A.: Chain branching in high pressure polymerized polyethylene: 2., 1173

Vilgis, Th. and Kilian, H.-G.: The van der Waals network — a phenomenological aproach to dense networks, 71

Viras, F. and King, T. A.: Low frequency excitation in amorphous acrylic polymers, 899

Viras, F. and King, T. A.: Low frequency excitations in amorphous polycarbonate studied by Raman spectroscopy, 1411

Viswanathan, R., Johnson, D. C. and McGrath, J. E.: Synthesis, kinetic observations and characteristics of polyarylene ether sulphones prepared via a potassium carbonate DMAC process, 1827

Vlahos, Costas H. and Kosmas, Marios K.: Effects of the excluded volume interactions on the confirmational properties of star polymers, 1607

Wagner, J. D.: see Bain, D. R., 403 Waksman, D.: see Dickens, B., 706 Walker, S. M.: see Block, H., 1465 Walkup, Connie M.: see Morgan, Roger J., 375

Walsh, D. J. and Cheng, G. L.: The miscibility of polyacrylates and polymethacrylates with PVC: In situ polymerization and the miscibility of poly(methyl acrylate) and poly(ethyl acrylate) with PVC, 495

Walsh, D. J. and Cheng, G. L.: The miscibility of polyacrylates and polymethacrylates with PVC: An interpretation of the heats of mixing of oligomers, 499

Walsh, D. J. and Sham, C. K.: In situ polymerization of n-butyl acrylate in poly(vinyl chloride),1023

Wang, Francis, W., Lowry, Robert E. and Grant, Warren H.: Novel excimer fluorescence method for monitoring polymerization: 1. Polymerization of methyl methacrylate, 690

Wang, Francis W. and Howell, Barbara F.: A novel fluorescence technique for measurements of additive migration from polymers, 1626

Ward, I. M.: see Leung, W. P., 447

Ward, I. M.: see Orchard, G. A. J., 1203

Ward, I. M.: see Humphreys, J., 1227

Ward, I. M.: see Bannister, D. J., 1291 Ward, I. M.: see Bannister, D. J., 1600

Warren, William E.: The stress and displacement fields at the tip of crazes in glassy polymers, 43

Watanabe, Junji: Sasanuma, Y., Endo, A. and Uematsu, I.: Crystalline complex between poly(y-methyl 1.-glutamate) and dimethyl phthalate, 698

Watanabe, Junji and Uematsu, Ichitaro,: Anomalous properties of poly(γ-benzyl Lglutamate) film composed of unusual 7/2 helices, 1711

Weil, T.: see Thirion, P., 609 Wendorff, J. H.: see Eich, M., 1271 Wendt, H.: see Modica, G., 1513

White, Jerry, E. and Scaia, Mark D.: Polymerization of N. N'-bismaleimido-4,4' diphenylmethane with arenedithiols. Synthesis of some new polyimidosulphides, 850

Widmaier, J. M.: see Fernandez, A. M., 1718 Wignal, G. D.: see Fernandez, A. M., 1718 Wilkes, Garth L.: see Yilgor, Iskender, 1800 Wilkes, G. L.: see Tyagi, D., 1807 Willis, H. A.: see Hendra, P. J., 785

Willis, H. A.: see Vile, J., 1173
Willmouth, F. M., Rance, D. G. and
Henman, K. M.: An investigation of
precipitation polymerization in liquid

vinyl chloride by photon correlation spectroscopy, 1185 Windle, A. H.: see Mitchell, G. R., 906

Windle, A. H.: see Donald, A. M., 1235 Winnik, Mitchell A., Redpath, A. E. C., Paton, Katherine and Danhelka, Jarda,: Cyclization dynamics of polymers: 10. Synthesis, fractionation, and fluorescent spectroscopy of pyrene end-capped polystyrenes, 91

Winnik, Mitchell A., Pekcan, Onder and Egan, Luke,: Energy transfer studies from polymer bound naphthalene to anthracene in soltuion: translational and segmental diffusion rates, 1767

Wlochowicz, Andrzej and Eder, Marek.: Distribution of lamella thicknesses in isothermally crystallized polypropylene and polyethylene by differential scanning calorimetry, 1268

Wolsink, H. W.: see Bootsma, Jan P. C., 1327

Wu, R. Y. and Stachurski, Z. H.: Analysis of polynomial yield criteria applied to oriented polymers, 1505

Yamaguchi, T.: see Saeki, S., 1779
Yamamoto, Takashi: Monte Carlo
simulation of molecular motion and phase
transition in poly(ethylene) crystal, 178
Yano, Shoichiro; Hatakeyame, Hyoe and
Hatakeyama, Tatsuko: Temperature
dependence of the tensile properties of
lignin/paper composites, 890
Yap, W. T.: see Chiang, C. K., 1112

Yilgor, Iskender; Sha'aban, Ahmad K.; Steckle, Warren P. Jr.; Tyagi, Dinesh; Wilkes, Garth L. and McGrath, James E.: Segmented organosiloxane copolymers. 1. Synthesis of siloxane-urea copolymers, 1800

Yilgor, I.: see Tyagi, D., 1807 Yoshimura, Kenhi: see Arai, Koichi, 230 Yoshizawa, Tamae: see Masuda, Toshio, 503 Yu, Tong-yin; Fu, Shou-kuan; Li, Shan-jun; Ji, Cai-gui and Cheng, Wei-zhuang: Polycondensation kinetics of poly(phenylene ether sulphone), 1363 Yuasa, Sakae: see Kimura, Kelichiro, 441 Yue, Wang Ping: see Martuscelli, E., 1097

Zakaria, Mat B.: see Huglin, Malcolm B., 797

Zakaria, Mat B.: see Hitchman, Michael L., 1441

Zapas, L. J. and Crissman, J. M.: Creep and recovery behaviour of ultra-high molecular weight polyethylene in the region of small uniaxial deformations, 57

Zhikuan, Chai; Lianghe, Shi, and Sheppard, R. N.: Microstructure of solution-chlorinated polyethylene by <sup>13</sup>C nuclear magnetic resonance, 369
Zhulina, E. B.: see Birshstein, R. M., 1453
Zichy, V.: see Hendra, P. J., 785
Zichy, V.: see Legras, R., 835
Zubov, V. P.: see Kuchanov, S. I., 100
Zurimendi, Jon A., Guerrero, Saul J. and Leon, Vladimir: The determination of the degree of hydrolysis in poly(acrylamides): simple methods using C<sup>13</sup> n.m.r. and elementary analysis, 1314

### POLYMER CLASSIFIED CONTENTS VOLUME 25 1984

Acetylenes: Copolymerization of phenylacetylene with various — by Wand Mo-based catalysts, 503

Acrylamide: Selective permeability of grafted nylon-6 membranes: 1. Permeability of urea and potassium chloride in \_\_\_\_\_\_ and acrylic acid grafted membranes, 963

Acrylamidederivative: Synthesis of polymers and copolymers of  $c(N\varepsilon$ -AcrLys-Sar) and their interaction with small molecules in solution, 1837

Acrylic acid: Selective permeability of grafted nylon-6 membranes: 1. Permeability of urea and potassium chloride in acrylamide and grafted membranes, 963

Acrylic acid: Selective permeability of grafted nylon-6 membranes: 2. Potassium chloride permeation in \_\_\_\_\_ grafted membranes, 968

Acrylic elastomer: Bulk copolymerization of methyl methacrylate and styrene in presence of an \_\_\_\_\_\_ 1. Kinetic investigations, 1475

Acrylic polymers: Low frequency excitation in amorphous ————, 899

Activation energy: Study of the mechanism of macroradical reactions in solid polymers: 1.

Molecular aspects of reactivity and model of reactions, 274

Activation reaction: Influence of the polymer on an anionic promoted by a supported crown ether, 1136

Adhesive: Stress relaxation of poly(1,4-dimethylene-trans-cyclohexyl suberate), 1600

Adsorption: Polymer-bound flavins: 2. Immobilization of linear flavin-containing polyelectrolytes by — onto silica, 1327

Adsorption: Influence of the solvent on the conformations of poly(ethylene oxide) chains grafted on silica, 1297

Ageing: The freezing-in of non-equilibrium values of the limiting compliances as a mechanism of physical ————, 291

Aggregation: Observations on the structure of a polyacrylamide gel from electron micrographs, 1419

Aggregation: Small-angle neutron scattering from polystyrene-DVB networks containing a delta fraction of deuterated polystyrene: Evidence for \_\_\_\_\_ during polymerization, 1718

Aggregation: Small-angle scattering of microparacrystal-bundles in cold-drawn and annealed isotactic polypropylene, 1747

Alkanes: Migration of low molecular weight components from polymers: 1. Methodology and diffusion of straight chain octadecane in polyolefins, 209

polyamide, 1755

Amorphous phase: Modelling the

of a melt crystallized, semicrystalline polymer: segment distribution,
chain stiffness, and deformation, 1577

Amorphous phase density: Small-angle scattering of microparacrystal-bundles in cold drawn and annealed isotactic polypropylene, 1747

Analysis: of epoxidized natural rubber, A comparative study of d.s.c., n.m.r., elemental analysis and direct titration methods. 995

Analysis: of polynomial yield criteria applied to oriented polymers, 1505

Annealing: Extrusion drawn amorphous poly(ethylene terephthalate): 4. Irreversible spontaneous elongation, 877

Annealing: Attempt to correlate the yield processes above and below the glass transition in glassy polymers, 1523

Annealing: Stress relaxation of poly-(1,4-dimethylene-trans-cyclohexyl suberate), 1690

Antioxidant: A novel fluorescence technique for measurements of additive migration from polymers, 1626

Antioxidant action: Mechanisms of

effect of processing conditions on the stabilizing effectiveness of metal xanthates and related dixanthogen in polypropylene, 1006

Arenedithiols: Polymerization of N,N'-bismeleimido-4,4' diphenylmethane with

Synthesis of some new polyimidosulphides, 850

Asbestos: Poly(vinylpyridine)-divinylbenzene composites, 1513

Avrami analysis: Recrystallization kinetics of isotactic polypropylene (α form), 1462

Azo polymers: Photoresponsive polymers: 2.

The monolayer behaviour of photochromic polymers containing aromatic azobenzene residues. 1347

Azobenzene residues: Photoresponsive polymers: 2. The monolayer behaviour of photo chromic polymers containing aromatic———, 1347

Azobisisobutyronitrile: Studies on the reactivity of polymers: 2. Chlorination of poly(vinylidene chloride) by sulphuryl chloride in the presence of \_\_\_\_\_\_\_, 1371

Azodicarboxylate: Graft copolymers from
functional pre-polymers: 2.
Preparation in solution of graft copolymers
of polydiene with polystyrene, 1146

- Biphenyl acrylates: Polymers with rigid anisotropic side groups: 1. Side chain induced crystallinity in substituted \_\_\_\_\_\_ and methacrylates, 1342
- Birefringence: Pretransitional phenomena in the isotropic melt of a mesogenic side chain polymer, 1271
- Birefringence: Electro-optical and viscometric behaviour of sodium polystyrene sulphonate in formamide, 1397
- Birefringence: A wide-angle X-ray study of the development of molecular orientation in crosslinked natural rubber, 1562
- Bis(hydroxyethyl) terephthalate: Aspects of the chemistry of poly(ethylene terephthalate): 5. Polymerization of by various metallic catalysts, 1333
- Bisphenol: Synthesis, kinetic observations and characteristics of poly(arylene ether sulphones) prepared via a potassium carbonate DMAC process, 1827

- Blending: Acrylic terpolymer modified by with polyorganosiloxane polymer or reinforcing, 1603
- Blends: Phase structure of impact-modified polypropylene \_\_\_\_\_\_\_, 279
- Blends: A binary interaction model for miscibility of copolymers in ———, 487
- Blends: Mixing effects on the mid-kilohertz mobility of polystyrene in glassy polystyrene-diluent 645

- Blends: Plastic deformation and subsequent crystallization of thin films of isotactic/atactic polystyrene (iPS/aPS) blends, 1687
- Branch distribution: the lamella size distribution in non-isothermally crystallized low density polyethylene, 1277
- Bulk condensation: New polymer syntheses: 11. Preparation of aromatic poly(ether ketone)s from silylated bisphenols, 1151
- Butadiene-styrene: Graded block and randomized copolymers of — , 1011
- Calorimetry: The miscibility of polyacrylates and polymethacrylates with PVC: An interpretation of the heats of mixing oligomers, 499

- Catalyst: Kinetics and mechanism of cationic oligomerization of styrene using poly(styrene sulphonic acid) resin as catalyst, 1486
- Catalysts: Some novel polymer-supported optically active phase transfer — — : 1. Synthesis, 1491

- Cellulose: Crystal structure of polymorphs by potential energy calculations: 1. Most probable models for mercerized cellulose, 107
- Chain branching: in high pressure polymerized polyethylene: 2., 1173
- Chain expansion: Poly(sulphopropylbetaines): 2. Dilute solution properties, 254
- Chainfolding: Twisting orientation and the role of transient states in polymer crystallization, 28
- Chain motion: Deuteron n.m.r. study of in solid polyethylene, 1078
- Chain motion: Anomalous properties of poly(γ-benzyl L-glumate) film composed of unusual 7/2 helices, 1711
- Chain stiffness: Modelling the amorphous phase of a melt crystallized, semicrystalline polymer: segment distribution , and deformation, 1577
- Characterization: Poly(sulphopropylbetaines): 1. Synthesis and
- Characterization: Physical — of suspension-crosslinked polystyrene particles and their sulphonated products: 1. Nonionic networks, 245
- Characterization: Physical — of suspension-crosslinked polystyrene particles and their sulphonated products: 2. Ionic networks, 249
- Characterization: Carbon-13 nuclear magnetic resonance study of ethylene-1-octene and ethylene-4-methyl-1-pentene copolymers, 441
- Characterization: Studies on the ———————— of partly hydrolysed derivatives of poly(vinyl acetate) and their red iodine complex, 543
- Characterization: of styrene ethylene oxide and methyl methacrylate styrene block copolymers by light scattering, 693
- Characterization: of urea-formaldehyde and melamine-formaldehyde adducts and resins by <sup>15</sup>N nuclear magnetic resonance spectroscopy, 821
- Characterization: Synthesis and of piperazine-derived poly(amido-amine)s with different distributions of amido- and amino-groups along the macromolecular chain, 863
- Characterization: Graded block and randomized copolymers of butadiene styrene, 1011
- Characterization: Polyimides from dianhydride and diamine: Structure property relations by thermogravimetric analysis (t.g.a.), 1353
- Characterization: of poly(vinyl alcoholacetate) by <sup>13</sup>C n. m. r. and thermal analyses, 1759
- Characterization: and exposure of poly(etheretherketone)(PEEK) to fluid environments, 1845
- Chemical migration: Study of the mechanism of macroradical reactions in solid polymers:

  1. Molecular aspects of reactivity and activation energy model of reactions, 274

- Chemical modification: Control of electrical properties of polymers by — 3
- Chemical nucleation: a new concept applied to the mechanism of action of organic acid salts on the crystallization of poly(ethylene terephthalate) and bisphenol-A polycarbonate, 835
- Chiral phase transfer: Some novel polymersupported optically active phase transfer catalysts: 1. Synthesis, 1491
- Chlorination: Studies on the reactivity of polymers: 2. of poly(vinylidene chloride) by sulphuryl chloride in the presence of azobisisobutyronitrile, 1371
- Cholesteric gel: Mesomorphic transitions in a mixture of a flexible and a semi-rigid polymer, 1073
- Clustering function: Influence of polymer molecular weight on selected thermodynamic properties of polymer/solvent systems and the application of the UNIFAC theory, 670
- CNDO/2 calculations: Conformational stability of poly(trimethylene sulphide), 511
- Coil expansion: Cosolvency — and dimensions of PMMA in mixed solvents, 1307
- Compatibility: and neutron scattering studies of mixtures of polystyrene with poly(2,6-dimethyl 1,4-phenylene oxide) and its brominated derivatives, 357
- Compatibility phenomena: Polymer polymer interaction parameters in the ternary system polystyrene/poly(α-methyl styrene)/n-butyl chloride, 1779
- Compensation rule: The kinetics of the  $\alpha$  and  $\beta$  relaxations in isotactic polypropylene, 299
- Complex formation: Selective intermacromolecular complex formation between phenolic and nonionic polymers, 1367
- Complexes: Ionic conductivities for poly(ethylene oxide) — with lithium salts of monobasic and dibasic acids and blends of poly(ethylene oxide) with lithium salts of anionic polymers, 1291
- Complexes: Ionic conductivities of poly(methoxy polyethylene glycol monomethacrylate) – with LiSO<sub>3</sub>CH<sub>3</sub>, 1600
- Compliances: The freezing-in of nonequilibrium values of the limiting — — - as a mechanism of physical ageing, 291
- Compliances: Time-dependent deformation and craze initiation in PMMA: Volume effects, 1679
- Composites: Polyvinylpyridinedivinylbenzene asbestos – - - -1513
- Concentration dependence: The - of diffusion in semi-dilute polymer solutions, 680
- Conductive polymers: Control of electrical properties of polymers by chemical modification, 3
- Configurational statistics: of copolymers prepared by complex radical polymerization, 100

- Conformation: Neutron scattering studies on solution-growth crystals of polyethylene: a statistical preference for adjacent re-entry, 739
- Conformation: Infra-red study of solutiongrown crystals of polyethylene: correlation with the model from neutron scattering, 749

- Conformational stability: of poly(trimethylene sulphide), 511
- Conformations: Influence of the solvent on the \_\_\_\_\_\_ of poly(ethylene oxide) chains grafted on silica, 1297
- Conformations: of star-branched macromolecules, 1453
- Conjugated polymers: New routes to \_\_\_\_\_ 1. A two step route to polyacetylene, 395
- Cooling rate: The effect of upon the morphology of quenched melts of isotactic polypropylenes, 785
- Copoly(m,p-chloromethylstyrene-styrene):
  Synthesis of electroreactive polymers from poly(m,p-chloromethylstyrene)
  and
  -----, 716
- Copoly(m,p-chloromethylstyrene-50% styrene): Copolymer molecular weights, fractionation and derivatization, 1161
- Copolyester: Polymers with mesogenic elements in the main chain: a nematic aromatic ——————, 263
- Copolyester: The structure of copoly(4-hydroxy benzoic acid/2-hydroxy-6-naphthoic acid): 2. An atomic model for the chain, 435
- Copolyester: Synthesis and mesmorphic properties of a new thermotropic liquid-
- crystalline 'backbone' , 808 Copolyester: Walls in liquid crystalline polymers: an electron microscopy study, 1235
- Copolymer: Structure and ferroelectric phase transition of vinylidene fluoride-trifluoroethylene copolymers: 2. VDF 55%
- Copolymer: Dynamic and static properties of styrene-butadiene-styrene triblock

   and their blends, 882
- Copolymer: Copoly(m,p-chloromethylstyrene-50% styrene) molecular weights, fractionation and derivatization, 1161
- Copolymer: Micellization of three-block

   poly[styrene-b-(ethene-cobutene)-b-styrene] in mixed solvents of tetrahydrofuran/ethanol, 1178
- Copolymerization: of phenylacetylene with various acetylenes by W- and Mo-based catalysts, 503
- Copolymerization: of alkyl acrylates with triallyl cyanurate: Kelen-Tudös method applied for determining copolymerization reactivity ratios, 555
- Copolymerization: Methyl methacrylatechloroprene ----:: an evaluation of copolymerization models, 569

- Copolymerization: Selective permeability of grafted nylon-6 membranes: 1. Permeability of urea and potassium chloride in acrylamide and acrylic acid grafted membranes, 963
- Copolymerization: Copoly(m,p-chloromethylstyrene-50% styrene): Copolymer molecular weights, fractionation and derivatization, 1161

- Copolymerization: Electroinitiated cationic

  by direct electron transfer,
- Copolymerization: Synthesis of polymers and copolymers of c- $(N\varepsilon$ -AcrLys-Sar) and their interaction with small molecules in solution, 1837

- Copolymers: Small-angle light scattering studies of macrophase separation in segmented polyurethane block \_\_\_\_\_\_\_\_\_, 171
- Copolymers: Aliphatic polyesters as models for relaxation processes in crystalline polymers: 2. Dielectric relaxation in of adipic acid with 1,6- and 2,5-hexanediols, 330
- Copolymers: Aliphatic polyesters as models for relaxation processes in crystalline polymers: 3. Mechanical relaxation in \_\_\_\_\_\_ of adipic acid with 1,6- and 2,5-hexanediols, 340
- Copolymers: Carbon-13 nuclear magnetic resonance study of ethylene-1-octene and ethylene-4-methyl-1-pentene,
- Copolymers: A binary interaction model for miscibility of \_\_\_\_\_ in blends, 487

- Copolymers: Observations on the homogenity of crosslinked \_\_\_\_\_\_ prepared by γ-irradiation, 797
- Copolymers: Graded block and randomized ——— of butadiene-styrene, 1011
- Copolymers: of 2-hydroxyethyl methacrylate and methyl methacrylate: an electron beam resist study, 1090
- Copolymers: Graft from azodicarboxylate-functional pre-polymers:

  1. Synthesis of azodicarboxylate-functional polystyrene, 1141
- Copolymers: Graft from azodicarboxylate-functional pre-polymers:

- Copolymers: Observations relating to oxygen permeability measurements on membranes, 1441
- Copolymers: Segmented organosiloxane copolymers. 1. Synthesis of silicone-urea \_\_\_\_\_\_\_, 1800
- Copolymers: Segmented organosiloxane copolymers: 2. Thermal and mechanical properties of siloxane-urea \_\_\_\_\_\_\_\_\_, 1807
- Corona discharge treatment: Physicochemical modifications of superficial regions of low density polyethylene (LDPE) film under corona discharge, 766
- Cosolvency: coil expansion and dimensions of PMMA in mixed solvents, 1307
- Crack: Distribution of stress in a craze of the top of a uniformly extending \_\_\_\_\_\_\_, 1727
- Crack growth: Theory of slow, steady state in polymer glasses, 1667
- Crack propagation: Temperature dependence of \_\_\_\_\_\_ parameters and crack morphology of the semicrystalline polyester (poly(1,4-dimethylene-trans-cyclohexyl suberate), 1040

- Crazes: The stress and displacement fields at the tip of ——————————in glassy polymers,
- Craze behaviour: in isotactic polystyrene: 1. Craze-spherulite interaction, 417
- Craze breakdown: Theory of slow, steady state crack growth in polymer glasses, 1667
- Creep: and recovery behaviour of ultra-high molecular weight polyethylene in the region of small uniaxial deformations, 57
- Creep: The freezing-in of non-equilibrium values of the limiting compliances as a mechanism of physical ageing, 291
- Creep: The kinetics of the α relaxation in an amorphous polymer at temperatures close to the glass transition, 309
- Creep rupture: of a linear polyethylene: 1. Rupture and pre-rupture phenomena, 727
- Crosslinking: Physical characterization of suspension-crosslinked polystyrene particles and their sulphonated products: 1. Nonionic networks, 245
- Crosslinking: Physical characterization of suspension-crosslinked polystyrene particles and their sulphonated products: 2. Ionic networks, 249
- Crosslinking: of ultra-high molecular weight polyethylene in the oriented state with dicumylperoxide, 513

- Crosslinking: Observations on the homogenity of crosslinked copolymers prepared by  $\gamma$ -irradiation, 797
- Crosslinking: Thermal degradation of poly(vinyl chloride) in oxidative and non-oxidative atmospheres, 1337
- Crosslinking: Observations on the structure of a polyacrylamide gel from electron micrographs, 1419
- Crown ether: Influence of the polymer on an ionic activation reaction promoted by a supported ........., 1136
- Cryoscopic methods: Studies of the network structure of rubber vulcanizates by ...... ....: 2., 1117
- Crystal growth: kinetics and the lateral habits of polyethylene crystals, 631
- Crystal growth rates: A model for chain folding polymer crystals: rough faces are consistent with the observed growth rates, 1446
- Crystal structure: of cellulose polymorphs by potential energy calculations: 1. Most probable models for mercerized cellulose, 107
- Crystal structure: Structure and properties of crystalline polymers, 147
- Crystal structure: Structure and ferroelectric base transition of vinylidene fluoridetrifluoroethylene copolymers: 2. VDF 55% copolymer, 195
- Crystals: A model for chain folding, polymer —, rough faces are consistent with the observed growth rates, 1446
- Crystalline complex: between poly(7methyl L-glutamate) and dimethyl phthalate, 698
- Crystalline phase: Quantitative determination of the monoclinic content in polyethylene by <sup>13</sup>C n. m. r., 1589
- Crystalline polymers: Structure and properties of —, 147

- Crystalline polymers: Aliphatic polyesters as models for relaxation processes in \_\_\_\_\_\_\_: 3. Mechanical relaxation in copolymers of adipic acid with 1,6- and 2,5-hexanediols, 340
- Crystallinity: The effect of cooling rate upon the morphology of quenched melts of isotactic polypropylenes, 785
- Crystallinity: Extrusion drawn amorphous and semi-crystalline poly(ethylene terephthalate): 3. Linear thermal expansion analysis, 869
- Crystallinity: Polymers with rigid anisotropic side groups: 1. Side chain induced — in substituted biphenyl acrylates and methacrylates, 1342
- Crystallinity: Grafting of acrylamide to nylon-6 by the electron beam preirradiation technique: 3. Degree of \_\_\_\_\_ at high grafting yields, 1431

- Crystallization: Twisting orientation and the role of transient states in polymer ———, 28
- Crystallization: Structure and properties of crystalline polymers, 147
- Crystallization: Chemical nucleation, a new concept applied to the mechanism of action of organic acid salts on the — of poly(ethylene terephthalate) and bisphenol-A polycarbonate, 835
- Crystallization: Reversible secondary during cooling of polypropylene, 921
- Crystallization: Influence of composition and molecular mass on the morphology

  -- - and melting behaviour of poly(ethylene oxide)/poly(methyl methacrylate) blends, 1097
- Crystallization: A neutron scattering study of slowly crystallized bulk polyethylene, 1219
- Crystallization: The lamella size distribution in non-isothermally crystallized low density polyethylene, 1277
- Crystallization: Spherulite nucleation in polypropylene blends with low density polyethylene, 1323
- Crystallization: A model for chain folding polymer crystals: rough faces are consistent with the observed growth rates, 1446
- Crystallization: A wide-angle X-ray study of the development of molecular orientation in crosslinked natural rubber, 1562
- Crystallization: Modelling the amorphous phase of a melt crystallized, semicrystalline polymer: segment distribution, chain stiffness, and deformation, 1577
- Crystallization: Effect of solvent on the polymorphism of poly(4-methylpentene-1): 2.
- Crystallization: Plastic deformation and subsequent — of thin films of isotactic/acatactic polystyrene (iPS/aPS) blends, 1687
- Crystallization: Influence of an aqueous acetone medium on the thermal behaviour of solvent treated poly(ethylene terephthalate), 1774
- Crystallization: Comparative d. s. c. studies of the — of natural rubber and its synthetic analogues, 1823
- Crystallization: Characterization and exposure of poly(etheretherketone) (PEEK) to fluid environments, 1845
- Crystallization mechanisms: Neutron scattering studies on solution-grown crystals of polyethylene: a statistical preference for adjacent re-entry, 739
- Cyclic voltammetry: Electrochemical studies on doping of polyacetylene, 1112
- Cyclization: Thermal degradation of poly(vinyl chloride) in oxidative and non-oxidative atmospheres, 1337
- Cyclization dynamics of polymers: 10. Synthesis, fractionation and fluorescent spectroscopy of pyrene end-capped polystyrenes, 91
- Cycloalkanes: Upper and lower critical solution temperatures for polystyrene in methyl cyclopentane and in dimethyl cyclohexane, 1107
- Deformation: Structure-property relations of polyethertriamine-cured bisphenol-A-diglycidyl ether epoxies, 375

- Deformations: Creep and recovery behaviour of ultra-high molecular weight polyethylene in the region of small uniaxial
- Degradation: Studies of the network structure of rubber vulcanizates by a cryoscopic method: 1., 225
- Degradation: Some aspects of the thermal stability action of the structure in aliphatic polyamides and polyacrylamides, 1699
- Density fluctuation: Isothermal relaxation of specific volume and in poly(methyl methacrylate) and polycarbonate, 1424
- Derivation: New developments in polymer surface analysis, 1379
- Desorption: Water sorption and in 2-hydroxyethylmethacry-late/methylmethacrylate copolymers, 686
- Deutration: A broad-line n. m. r. investigation of methyl motion in poly(methyl methacrylate), 1227
- Deuterium magnetic resonance: Effect of crosslinking density on the orientational order generated in strained networks: A — study, 1405
- Dicumylperoxide: Crosslinking of ultra-high molecular weight polyethylene in the oriented state with — -, 513
- Dielectric constant: Infra-red optical absorption or oriented polyacetylene, 1253
- Dielectric measurement: Anomalous properties of poly()-benzyl L-glutamate) film composed of unusual 7/2helices, 1711
- Dielectric properties: The - of poly(hexylisocyanate) solutions in electric fields, 1465
- Dielectric relaxation: and the molecular motion of poly(vinylidene fluoride) crystal form II under high pressure, 63
- Dielectric relaxation: Aliphatic polyesters as models for relaxation processes in crystalline polymers: 2. — in copolymers of adipic acid with 1,6 and 2,5-hexanediols. 330
- Dielectric relaxation: Aliphatic polyesters as models for relaxation processes in crystalline polymers: 4. - in oriented specimens, 347
- Dielectric relaxation: Dielectric, mechanical and thermal properties of some chlorinated poly(p-phenylene oxide)s in the solid state, 625
- Dielectric saturation: The dielectric properties of poly(hexylisocyanate) solutions in electric fields, 1465
- Dielectric studies: of nitrocellulosenitroglycerine mixtures, 815
- Differential scanning calorimetry: Analysis of epoxidized natural rubber. A comparative study of — , n.m.r., elemental analysis and direct titration methods, 995
- Differential scanning calorimetry: Distribution of lamella thicknesses in isothermally crystallized polypropylene and polyethylene by — 1268
- Differential scanning calorimetry: Anomalous properties of poly(γ-benzyl1-glutamate) film composed of unusual 7/2 helices, 1711

- Differential thermal analysis: Microstructure of solution-chlorinated polyethylene by <sup>13</sup>C nuclear magnetic resonance, 369
- Diffusion: Non-Fickian of water in melamine-formaldehyde resins, 84

- Diffusion: Interdiffusion and marker movements in concentrated polymer polymer couples, 473
- Diffusion: Dynamic light scattering measurements of polystyrene in semidilute theta solutions, 650
- Diffusion: The concentration dependence of \_\_\_\_\_\_ in semi-dilute polymer solutions, 680
- Diffusion: Water sorption and desorption in 2hydroxyethylmethacryla-
- te/methylmethacrylate copolymers, 686
- Diffusion: Polymerization of acrylamide with controlled termination, 845
- Diffusion: Effect of non-uniform initial drug concentration distribution on the kinetics of drug release from glassy hydrogel matrices, 973
- Diffusion: Observations relating to oxygen permeability measurements on membranes, 1441
- Diffusion rates: Energy transfer studies from polymer bound naphthalene to anthracene in solution: translational and segmental \_\_\_\_\_\_\_, 1767
- Dilatometry: Recrystallization kinetics of isotactic polypropylene (a-form), 1462
- Dilatometry: Studies of absolute rate coefficients in alternating copolymerization by observation of pre- and after-effects, 1791
- Diluent effects: on carbonate mobility in bisphenol-Apolycarbonate in the solid state, 452
- Dimethyl cyclohexane: Upper and lower critical solution temperatures for polystyrene in methyl cyclopentane and in \_\_\_\_\_\_\_, 1107
- N,N'-dimethylacetamide: Synthesis, kinetic observations and characteristics of polt(arylene ether sulphones) prepared via a potassium carbonate process,
- 4-(N-dimethylmaleimido)-benzenesulphenyl chloride: Light-sensitive elastomers modified by --- -- -, 1629

- Dipeptide: Synthesis of polymers and copolymers of c-(Nε-AcrLys-Sar) and their interaction with small molecules in solution, 1837
- Dipole moments: and statistical conformations of cyclic and linear dimethylsiloxane oligomers, 1122
- Disclination: Vibrations of crystallographic defects associated with a single chain in polyethylene, 1549
- Dislocation: Vibrations of crystallographic defects associated with a single chain in polyethylene, 1549

- Dispersion: Rubber phase dispersion in polypropylene, 1527
- Dispiration: Vibrations of crystallographic defects associated with a single chain in polyethylene, 1549
- Displacement fields: The stress and at the tip of crazes in glassy polymers, 43
- Dodecamethylenediammonium adipate: Solid-state polyamidation of \_\_\_\_\_, 791
- Doping: Electrochemical studies on of polyacetylene, 1112
- Drawing: The thermal expansion behaviour of highly oriented polyethylene, 1203
- Drawing: Distribution of stress in a craze of the top of a uniformly extending crack, 1727
- Drug concentration distribution: Effect of non-uniform initial on the kinetics of drug release from glassy hydrogel matrices, 973
- Drug release: Effect of non-uniform initial drug-concentration distribution on the kinetics of — from glassy hydrogel matrices, 973
- Dynamic light scattering: measurements of polystyrene in semidilute theta solutions, 650
- Dynamic mechanical measurements: Physical ageing of polycarbonate and PMMA by \_\_\_\_\_\_\_, 1392
- Effective thickness: of adsorbed polymer in a shear field, 1198
- Ehrenfest relation: Factors determining glass transition temperature and relaxation time of poly(vinyl chloride), 75
- Elastic moduli: Viscoelasticity of ionomer gels: 2. The \_\_\_\_\_\_\_, 1469
- Elasticity: Assessment of the sliding link model of chain entanglement in polymer networks, 609
- Elastomers: Polyurethane microcellular
  : 2. Effect of chain extender on
  the mechanical properties, 1211
- Electric fields: The dielectric properties of poly(hexylisocyanate) solutions in \_\_\_\_\_\_, 1465
- Electrical conductivity: of polySchiff bases: a theoretical study, 129
- Electrical properties: Control of of polymers by chemical modification, 3
- Electrochemical studies: on doping of polyacetylene, 1112
- Electro-copolymerization: Electroinitiated cationic copolymerization by direct electron transfer, 1655
- Electroinitiation: Electroinitiated cationic copolymerization by direct electron transfer, 1655
- Electrolysis: Electro-initiated cationic polymerization of α-methylstyrene by direct electron transfer, 1028
- Electrolyte: Ionic conductivities of poly(methoxy polyethylene glycol monom-

- ethacrylate) complexes with LiSO<sub>3</sub>CH<sub>3</sub>, 1600
- Electron beam: Copolymers of 2-hydroxyethyl methacrylate and methyl methacrylate: an resist study, 1090
- Electron diffraction: Morphology of polypivalolactone: A polymer with a direction, 773
- Electron microscopy: Observations on the structure of a polyacrylamide gel from electron micrographs, 1419
- Electron microscopy: Direct lattice imageing in single crystals of isotactic polystyrene, 1573
- Electron paramagnetic resonance: studies of Kevlar 49 fibres: Stress-induced free radicals, 759
- Electron spectroscopy for chemical application: An investigation of the surface oxidation of disphenol-A polycarbonate films induced by reactive oxygen species, 826
- Electron spin resonance: study of a cured epoxy resin exposed to high-energy radiation, 54
- Electron spin resonance: Ionic products from the mechanical fracture of solid polypropylene, 944
- Electron spin resonance: An \_\_\_\_\_study of the motion of peroxy radicals in isotactic and atactic polypropylenes, 1436
- Electron transfer: Electro-initiated cationic polymerization of α-methylstyrene by direct —————, 1028
- Electron transfer: Electroinitiated cationic copolymerization by direct \_\_\_\_\_\_\_, 1655
- Electron transfer reactions: Mediated

  at electrodes coated with poly(viologen)s, 1302
- Electro-optical behaviour: and viscometric behaviour of sodium polystyrene sulphonate in formamide, 1397
- Electroreactive polymers: Synthesis of . . — from poly(m,p-chloromethylstyrene) and copoly(m,p-chloromethylstyrene-styrene), 716
- Elementary analysis: The determination of the degree of hydrolysis in poly(acrylamides): simple methods using C<sup>13</sup> n.m.r. and \_\_\_\_\_\_\_\_, 1314
- Elongation: Extrusion drawn amorphous poly(ethylene terephthalate): 4. Irreversible spontaneous \_\_\_\_\_\_\_\_\_, 877
- Energy dispersive X-ray analysis: Acrylic terpolymer modified by blending with polyorganosiloxane polymer or reinforcing, 1603
- Energy migration: Intramolecular excimer formation and ————————————————————in head-to-head polystyrene, 989
- Energy transfer: studies from polymer bound naphthalene to anthracene in solution: translational and segmental diffusion rates, 1767
- Entanglement: A simple viscoelastic model for fatigue crack propagation in polymers as a function of molecular weight, 1657
- Epitaxial synthesis: of poly(p-xylylene), 615
- Epoxidation: Analysis of epoxidized natural rubber. A comparative study of d.s.c., n.m.r., elemental analysis and direct titration methods, 995

- Epoxidation: Some novel polymer-supported optically active phase transfer catalysts: 2. displacement, reduction. in and addition reactions, 1499 Epoxies: Structure-property relations of polyethertriamine-cured bisphenol-A--, 37̃5 diglycidyl ether --Epoxy resin: electron spin resonance study of a cured - exposed to high energy radiation, 54 Epoxy resin: Tests for obtaining and investigating pre-stressed plastics, 722 Epoxy resins: Temperature dependence of the zero-shear melt viscosity of oligomeric -, 463 Epoxy resins: Interaction of with water: the depression of glass transition temperature, 664 Etching: The lamella size distribution in nonisothermally crystallized low density polyethylene, 1277 Ethyl eosin: Polymerization of vinyl acetate using visible radiation and a dye-reducing agent sensitizer: 1. Pre-initiation and initiation reactions involving ---and ascorbic acid, 529 Excimer fluorescence: Novel method for monitoring polymerization: 1. Polymerization of methyl methacrylate, 690 formation: Intramolecular - and energy migration in head-to-head polystyrene, 989 Excitation: Low frequency amorphous acrylic polymers, 899 Expansion coefficient: Conformations of starbranched macromolecules, 1453 Expansion factor: Effects of the excluded volume interactions on the conformation properties of star polymers, 1607 Exposure: Characterization and of poly(etheretherketone) (PEEK) to fluid environments, 1845 Extraction: A novel fluorescence technique for measurements of additive migration from polymers, 1626
- Fatigue: A simple viscoelastic model for crack propagation in polymers as a function of molecular weight,

Extrusion: drawn amorphous and semi-

Linear thermal expansion analysis, 869

elongation, 877

1657

Extrusion: drawn amorphous poly(ethylene

terephthalate): 4. Irreversible spontaneous

crystalline poly(ethylene terephthalate): 3.

- Ferroelectric: Structure and phase transition of vinylidene fluoridetrifluoroethylene copolymers: 2. VDF 55% copolymer, 195
- Flammability: Reduction of smoke formation from and ————————— of thermoplastic polymers by metal oxides, 405
- Flavins: Polymer-bound 2. Immobilization of linear flavin-containing polyelectrolytes by adsorption onto silica, 1327
- Flocculants: Synthesis and solution properties of water soluble copolymers based on acrylamide and quaternary ammonium acrylic comonomer, 1317

- Fluorescence: Intramolecular excimer formation and energy migration in head-tohead polystyrene, 989
- Fluorescence emission: Phase separation in polystyrene-poly(vinylmethylether) blends: a .... 956
- Fluorescence probe: for microenvironments: effect of solvent vapour on the properties of vapour-swollen polymers, 399
- Fluorescence quantum yield: Fluorescence probe for microenvironments: effect of solvent vapour on the properties of vapour-swollen polymers, 399
- Fluorescence technique: A novel
  ———— for measurements of additive
  migration from polymers, 1626
- Folding: A neutron scattering study of slowly crystallized bulk polyethylene, 1219
- Formaldehyde: Characterization of ureaformaldehyde and melamineadducts and resins by <sup>15</sup>N nuclear magnetic resonance spectroscopy, 821
- Fractionation: Cyclization dynamics of polymers: 10. Synthesis, ————, and fluorescent spectroscopy of pyrene end-capped polystyrenes, 91
- Fracture: The stress and displacement fields at the tip of crazes in glassy polymers, 43
- Fracture: Electron paramagnetic resonance studies of Kevlar 49 fibres: Stress-induced free radicals, 759
- Fracture: Stress relaxation of poly(1,4-dimethylene-trans-cyclohexyl suberate), 1690
- Free-radical: Rheokinetics of ----polymerization, 778
- Free radicals: Electron paramagnetic resonance studies of Kevlar 49 fibres: Stressinduced ------, 759
- Free volume: Quantitative evaluation of the Gibbs theory of the glass transition, 600
- Freezing point depression: Studies of the network structure of rubber vulcanizates by cryoscopic methods: 2., 1117
- Gambler's ruin: Modelling the amorphous phase of a melt crystallized, semicrystalline polymer: segment distribution, chain stiffness, and deformation, 1577
- Gamma irradiation: Observations on the homogeneity of crosslinked copolymers prepared by γ-irradiation, 797
- Gas-liquid chromatography: study of poly(ethylene oxide) solvent interactions: A molecular approach to solvation mechanisms, 1784
- Gel permeation chromatography: Molecular characterization of sodium poly(acrylate) by an aqueous -/LS method, 218
- Gel permeation chromatography: Molecular weight distribution of phenol-formaldehyde resols by high performance , 403
- Gel permeation chromatography: Polycondensation kinetics of poly(phenylene ether sulphone), 1363
- Gibbs theory: Quantitative evaluation of the

  of the glass transition, 600
- Gibbs-DiMarzio theory: Quantitative evaluation of the francision, 927

- Glass transition: Dielectric, mechanical and thermal properties of some chlorinated poly(p-phenylene oxide)s in the solid state, 625
- Glass transition: Temperature dependence of the tensile properties of lignin/paper composites, 890
- Glass transition: Quantitative evaluation of the Gibbs-Dimarzio theory of the \_\_\_\_\_\_, 927
- Glass transition: New polymer syntheses: 11.
  Preparation of aromatic poly(ether ketone)s from silylated bisphenols, 1151
- Glass transition: Thermotropic liquid crystalline polyesters with terphenyl moieties and flexible 'ether' spacers in the main chain, 1281
- Glass transition: Attempt to correlate the yield processes above and below the in glassy polymers, 1523
- Glass transition: Influence of an aqueous acetone medium on the thermal behaviour of solvent treated poly(ethylene terephthalate), 1774
- Glass transition temperature: Temperature dependence of the zero-shear melt viscosity of oligomeric epoxy resins, 463
- Glass transition temperature: Light-sensitive clastomers modified by 4-(N-dimethyl-maleimido-benzenesulphenyl chloride), 1629
- Glasses: Structure of polystyrene
- Glasses: Theory of slow, steady state crack growth in polymer . , 1667
- Glass polymers: The stress and displacement fields at the tip of crazes in \_\_\_\_\_\_, 43
- Grafting: The γ-radiation induced
   of unsaturated segmented polyurethane with N-vinyl pyrrolidone, 1157
- Grafting: Influence of the solvent on the conformations of poly(ethylene oxide) chains grafted on silica, 1297
- Grafting: of acrylamide to nylon-6 by the electron beam preirradiation technique: 3. Degree of crystallinity at high grafting yields, 1431
- Heat capacity: Temperature dependence of some thermodynamic functions for amorphous and semicrystalline polymers, 579
- Heat-resistant polymers: Processable

  14. Polyamides and polyamideimides containg azo linkages, 551
- Helix-coil transition: Scattering function of poly(amino acid) in ———, 1258
- Homogeneity: Observations on the —— —— crosslinked copolymers prepared by  $\gamma$ -irradiation, 797
- Hydrogel: Observations relating to oxygen permeability measurements on membranes, 1441

- Hydrogen bonding: Crystal structure of cellulose polymorphs by potential energy calculations: 1. Most probable models for mercerized cellulose, 107
- Hydrogen bonding: Gas-liquid chromatography study of poly(ethylene oxide)-solvent interactions: A molecular approach to solvation mechanisms, 1784
- Hydrolysis: The determination of the degree of hydrolysis in poly(acrylamides): simple methods using C<sup>13</sup> n.m.r. and elementary analysis, 1314
- 2-hydroxyethyl methacrylate: Copolymers of \_\_\_\_\_ and methyl methacrylate: an electron beam resist study, 1090
- Immiscibility: Polymer mixing in aqueous solution, 979
- Immobilization: Polymer-bound flavins: 2.

  of linear flavin-containing polyelectrolytes by adsorption onto silica, 1327
- Incoherent scattering: On the assessment of incoherent neutron scattering intensities from polymer systems, 1068
- Indolinospiropyrans: Photoresponsive polymeric systems. Mixed monomolecular films of some synthetic polymers and \_\_\_\_\_\_\_, 999
- Infra-red: study of solution-grown crystals of polyethylene: correlation with the model from neutron scattering, 749
- Infra-red: optical adsorption of oriented polyacetylene, 1253
- Infra-red absorption: The effect of cooling rate upon the morphology of quenched melts of isotactic polypropylenes, 785
- Infra-red spectroscopy: Orientation and relaxation in uniaxially-stretched poly(2,6dimethyl 1,4-phenylene oxide) - atactic polystyrene blends, 318
- Infra-red spectroscopy: Spectroscopic study of the electric field induced microstructural changes in poly(vinylidene fluoride), 1247
- Interaction: of 1-pyrenebutyrate with poly(vinylbenzo-18-crown-6) and poly(vinylbenzoglyme) in water, 1166
- Interaction: Synthesis of polymers and copolymers of c-(N<sup>e</sup>-AcrLys-Sar) and their with small molecules in solution, 1837
- Interaction model: A binary for miscibility of copolymers in blends, 487
- Interaction parameters: in ternary polystyrene solutions at high temperature, 803
- Interaction parameters: in the nundecane/butanone/poly(dimethylsiloxane) system, 1479
- Interdiffusion: and marker movements in concentrated polymer-polymer diffusion couples, 473

- Ionic: Physical characterization of suspensioncrosslinked polystyrene particles and their sulphonated products: 2. — networks, 249
- Ionic conductivities: for poly(ethylene oxide) complexes with lithium salts of monobasic and dibasic acids and blends of poly(ethylene oxide) with lithium salts of anionic polymers, 1291
- Ionic conductivities: of poly(methoxy polyethylene glycol monomethacrylate) complexes with LiSO<sub>3</sub>CH<sub>3</sub>, 1600
- Ionic products: from the mechanical fracture of solid polypropylene, 944
- Ionomer gels: Viscoelasticity of 2. The elastic moduli, 1469

- Kinetic observations: Synthesis and characteristics of poly(arylene ether sulphones) prepared via a potassium carbonate DMAC process, 1827
- Kinetic studies: Polymerization of vinyl acetate using visible radiation and a dyereducing agent sensitizer: 2.

  and polymerization mechanism, 536
- Kinetics: The ———— of the  $\alpha$  and  $\beta$  relaxations in isotactic polypropylene, 299 Kinetics: The ——— of the  $\alpha$  relaxation
- in an amorphous polymer at temperatures close to the glass transition, 309
- Kinetics: Crystal growth — and the lateral habits of polyethylene crystals, 631
- Kinetics: Water sorption and desorption in 2hydroxyethylmethacrylate/methyl methacrylate copolymers, 686
- Kinetics: Effect of non-uniform initial drug concentration distribution on the of drug release from glassy hydrogel matrices, 973
- Kinetics: Polycondensation - poly(phenylene ether sulphone), 1363
- Kinetics on the reactivity of polymers: 2. Chlorination of poly(vinylidene chloride) by sulphuryl chloride in the presence of azobisisobutyronitrile, 1371
- Kinetics: and mechanism of cationic oligomerization of styrene using poly(styrenesulphonic acid) resin as catalyst, 1486
- Lamella size distribution: The in non-isothermally crystallized low density polyethylene, 1277
- Lamella thicknesses: Distribution of \_\_\_\_\_\_ in isothermally crystallized polypropylene and polyethylene by differential scanning calorimetry, 1268

- Lamellar morphology: On the of isotactic polypropylene spherulites, 935

  Lattice imageing: Direct in
- single crystals of isotactic polystyrene, 1573 Lattice matching: Epitaxial synthesis of poly(p-xylylene), 615
- Lead dimethacrylate: Synthesis of
- Light scattering: Residual temperature dependence of normalized diffusion of polystyrene latex in aqueous solvents, 467
- Light scattering: Studies on the characterization of partly hydrolysed dervatives of poly(vinyl acetate) and their red iodine complex, 543
- Light scattering: Interaction parameters in ternary polystyrene solutions at high temperature, 803
- Light scattering: Scattering from a polymer solution at an arbitrary concentration, 1059 Light scattering: Micellization of three-block copolymer poly[styrene-b-(ethene-co-butene)-b-styrene] in mixed solvents of tetrahydrofuran/ethanol, 1178
- Light scattering: Styrene polymerized in an oil-in-water microemulsion, 1357
- Lignin/paper: Temperature dependence of the tensile properties of \_\_\_\_\_ composites, 890
- Liquid crystal polymers: Polymers with rigid anisotropic side groups: 1. Side chain induced crystallinity in substituted biphenyl acrylates and methacrylates, 1342
- Liquid crystalline polyesters: Thermotropic with terphenyl mojeties and flexible 'ether' spacers in the main chain, 1281
- Liquid crystalline polymer: Pretransitional phenomena in the isotropic melt of a mesogenic side chain polymer, 1271
- Liquid crystalline polymers: Synthesis and mesomorphic properties of a new thermotropic liquid-crystalline 'backbone' copolyester, 808
- Liquid crystalline polymers: Walls in and electron microscopy study, 1235
- Liquid crystals: Mesomorphic transitions in a mixture of a flexible and a semi-rigid polymer, 1073
- Lithium salts: Ionic conductivities for poly(ethylene oxide) complexes with lithium salts of monobasic and dibasic acids and blends of poly(ethylene oxide) with lithium salts of anionic polymers, 1291
- Low frequency excitations: in amorphous polycarbonate studied by Raman spectroscopy, 1411
- Macrophase separation: Small-angle light scattering studies of \_\_\_\_\_\_ in segmented polyurethane block copolymers, 171 Macroradical reactions: study of the mechanism of \_\_\_\_\_\_ in solid polymers:
  - chanism of \_\_\_\_\_\_ in solid polymers:

    1. Molecular aspects of reactivity and activation energy model of reactions, 274

- Macrotexture: A tailor-made polymer for tyre applications, 132

- Mass spectrometry: New developments in polymer surface analysis, 1379
- Mechanical fracture: Ionic products from the
  --- of solid polypropylene, 944

  Machanical respectives Polyprophene micro
- Mechanical properties: Physical ageing of polycarbonate and PMMA by dynamic mechanical measurements, 1392
- Mechanical properties: Segmented organosiloxane copolymers: 2. Thermal and \_\_\_\_\_\_ of siloxane urea copolymers, 1807
- Mechanical relaxation: Dielectric, mechanical and thermal properties of some chlorinated poly(p-phenylene oxide)s in the solid state, 625
- Melamine: Characterization of ureaformaldehyde and - - formaldehyde adducts and resins by <sup>15</sup>N n.m.r. spectrosocpy, 821
- Melting behaviour: Influence of composition and molecular mass on the morphology, crystallization and — of poly(ethylene oxide)/poly(methyl methacrylate) blends, 1097
- Membranes: Observations relating to oxygen permeability measurements on — ..., 1441
- Metallic catalysts: Aspects of the chemistry of poly(ethylene terephthalate): 5. Polymerization of bis(hydroxyethyl) terephthalate by various —, 1333
- Methacrylic acid: Synthesis of lead dimethacrylate, 1020
- Methylcellulose: Structural interpretation of the interfacial properties of aqueous solutions of — in hydroxypropyl methylcellulose, 481
- Methyl cyclopentane: Upper and lower critical solution temperatures for polystyrene in — and in dimethyl cyclohexane,

- Methyl methacrylate: Bulk copolymerization of and styrene in presence of an acrylic elastomer: 1. Kinetic investigations, 1475

- Methyl methacrylate-chloroprene: copolymerization: an evaluation of copolymerization models. 569
- Methyl motion: A broad-line n.m.r. investigation of in poly(methylmethacrylate), 1227
- α-Methylstyrene: Electro-initiated cationic polymerization of by direct electron transfer, 1028
- Mesogenic elements: Polymers with

   in the main chain: a nematic
  aromatic copolyester, 263
- Mesomorphic properties: Synthesis and of a new thermotropic liquid-crystalline 'backbone' copolyester, 808
- Mesomorphic transitions in a mixture of a flexible and a semi-rigid polymer, 1073
- Mesophase: Walls in liquid crystalline polymers: an electron microscopy study, 1235 Micellization: of three-block copolymer poly[styrene-b-(ethene-co-butene)-b-
- styrene] in mixed solvents of tetrahydrofuran/ethanol, 1178
- Microcellular: Polyurethane — elastomers: 2. Effect of chain extender on the mechanical properties, 1211
- Microdomain structure: Morphology control of a poly(styrene-butadiene-b-4vinylpyridine) ABC three-block polymer by binary solvent casting, 230
- Microemulsion: Styrene polymerized in an oilin-water — , 1357
- Microenvironments: effect of solvent vapour on the properties of vapour-swollen polymers, 399
- Micro-hysteresis: A tailor-made polymer for tyre applications, 132
- Microphase structure features of network block polymer over a wide temperature range, 459
- Microscopy: Molecular fractionation in meltcrystallized polyethylene: 3. — — — of solvent-treated samples, 1263
- Microstructural changes: Spectroscopic study of the electric field induced — in poly(vinylidene fluoride), 1247
- Microstructure: of solution-chlorinated polyethylene by <sup>13</sup>C nuclear magnetic resonance, 369
- Microstructure: Dielectric studies of nitrocellulose-nitroglycerine mixtures, 815
- Microstructure: Graded block and randomized copolymers of butadiene-styrene, 1011
- Microstructure: of as-polymerized thermoplastic polyurethane elastomers, 1734
- Microtexture: A tailor-made polymer for tyre applications, 132
- Migration: of low molecular weight components from polymers: 1. Methodology and diffusion of straight chain octadecane in polyolefins, 209
- Miscibility: A binary interaction model for of copolymers in blends, 487
- Miscibility: The — of polyacrylates and polymethacrylates with PVC: An interpretation of the heats of mixing of oligomers, 499
- Miscibility: Polymer mixing in aqueous solution, 979
- Miscibility: In situ polymerization of n-butyl acrylate in poly(vinyl chloride), 1023

- Mixing: Polymer — in aqueous solution, 979
- Mixing effects: on the mid-kilohertz mobility of polystyrene in glassy polystyrene -diluent blends, 645
- Models: Methyl methacrylate-chloroprene copolymerization: an evaluation of copolymerization — —, 569
- Modification: Light-sensitive elastomers modified by 4-(N-dimethylmaleimido)-benzenesulphenyl chloride, 1629
- Molecular characterization: of sodium poly(acrylate) by an aqueous g.p.c./LS method, 218
- Molecular conformation: Structure of polystyrene glasses, 906
- Molecular fractionation: in melt-crystallized polyethylene: 3. Microscopy of solvent-treated samples, 1263
- Molecular orientation: A wide-angle X-ray study of the development of - - in crosslinked natural rubber, 1562
- Molecular packing: in alkylated and chlorinated poly-p-xylylenes, 1093
- Molecular motion: Dielectric relaxation and the — — — of poly(vinylidene fluoride) crystal form II under high pressure, 63
- Molecular motion: Monte Carlo simulation of

   — and phase transition in
  poly(ethylene) crystal, 178
- Molecular motion: An e.s.r. study of the motion of peroxy radicals in isotactic and atactic polypropylenes, 1436
- Molecular structure: Influence of the of poly(vinyl alcohol) on the ultrasonic absorption, 985
- Molecular symmetry: Raman scattering activities for partially-oriented systems: the case of a unique — axis perpendicular to the uniaxial direction, 165
- Molecular weight distribution: of phenolformaldehyde resols by high performance gel permeation chromatography, 403
- Molecular weight distribution: A simple viscoelastic model for fatigue crack propagation in polymers as a function of molecular weight, 1657
- Monomer complexes: Studies of absolute rate coefficients in alternating copolymerization by observation of pre- and after-effects, 1791
- Monomolecular films: Photoresponsive polymeric systems. Mixed — of some synthetic polymers and indolinospiropyrans, 999
- Monte Carlo calculations: Studies of cyclic and linear poly(dimethyl siloxanes) 14. Particle scattering functions, 365
- Monte Carlo simulation: of molecular motion and phase transition in poly(ethylene) crystal, 178
- Morphology: control of a poly(styrene butadiene-b 4-vinylpyridine) ABC three-block polymer by binary solvent casting, 230 Morphology: Phase structure of impact-
- modified polypropylene blends, 279

  Morphology: Creep rupture of a linear po-
- lyethylene: 1. Rupture and pre-rupture phenomena, 727
  Morphology: of polypivalolactone: A polymer
- with a direction, 773
- Morphology: The effect of cooling rate upon the - - - of quenched melts of isotactic polypropylenes, 785
- Morphology: Extrusion drawn amorphous and semi-crystalline poly(ethylene terephthalate): 3. Linear thermal expansion analysis, 869
- Morphology: Effect of on the crack propagation of the semicrystalline polyester poly(1,4-dimethylene-transcyclohexyl suberate), 1031

- Morphology: Temperature dependence of crack-propagation parameters and crack of the semicrystalline polyester poly(1,4-dimethylene-trans-cyclohexyl suberate), 1040
- Morphology: Rubber phase dispersion in polypropylene, 1527
- Morphology: Acrylic terpolymer modified by blending with polyorganosiloxane polymer or reinforcing, 1603
- Morphology: Effect of solvent on the polymorphism of poly(4-methylpentene-1): 1. Solution grown single crystals, 1613
- Naphthalene: Energy transfer studies from polymer bound naphthalene to anthracene in solution: translational and segmental diffusion rates, 1767
- Necking: Creep rupture of a linear polyethylene: 1. Rupture and pre-rupture phenomena, 727

- Network structure: Structure-property relations of polyethertriamine-cured bisphenol-A-diglycidyl ether epoxies, 375
- Networks: The van der Waals-network a phenomenological approach to dense
- Networks: Physical characterization of suspension-crosslinked polystyrene particles and their sulphonated products: 2. Ionic —, 249
- Networks: Assessment of the sliding link model of chain entanglement in polymer -- -- -- -- 609
- Networks: Polyurethane-polysiloxane interpenetrating polymer - -: 1. A poly(ether urethane)poly(dimethylsiloxane) system, 1633
- Networks: Small-angle neutron scattering from polystyrene-DVB containing a delta fraction of deuterated polystyrene: Evidence for aggregation during polymerization, 1718
- Neutron scattering: Studies of cyclic and linear poly(dimethyl siloxanes): 14. Particle scattering functions, 365

- Neutron scattering: Studies on solution-grown crystals of polyethylene: a statistical preference for adjacent re-entry, 739
- Neutron scattering: Infra-red study of solution-grown crystals of polyethylene: correlation with the model from \_\_\_\_\_\_ 749
- Neutron scattering: A study of slowly crystallized bulk polyethylene, 1219
  Nitrocellulose: Dielectric studies of
- Nitroglycerine: Dielectric studies of nitrocellulose mixtures, 815

- Nuclear magnetic resonance: Carbon-13

  study of ethylene-1 octene
  and ethylene-4-methyl-1-pentene copolymers, 441
- Nuclear magnetic resonance: Diluent effects on carbonate mobility in bisphenol-A polycarbonate in the solid state, 452
- Nuclear magnetic resonance: Mixing effects on the mid-kilohertz mobility of polystyrene in glassy polystyrene-diluent blends, 645
- Nuclear magnetic resonance: Synthesis and characterization of piperazine-derived poly(amido-amine)s with different distributions of amido- and amino-groups along the macromolecular chain, 863
- Nuclear magnetetic resonance: Influence of the molecular structure of poly(vinyl alcohol) on the ultrasonic absorption, 985
- Nuclear magnetic resonance: Graded block and randomized copolymers of butadienestyrene, 1011
- Nuclear magnetic resonance: <sup>13</sup>C

   — study of solvation mechanisms in the radiation-induced polymerization of vinyl ethers, 1131
- Nuclear magnetic resonance: Chain branching in high pressure polymerized polyethylene: 2... 1173
- Nuclear magnetic resonance: The determination of the degree of hydrolysis in poly(acrylamides): simple methods using C<sup>13</sup> — and elementary analysis, 1314
- Nuclear magnetic resonance: A study of conformation, configuration and phase structure of polyacrylonitrile and their mutual dependence by means of WAXS and <sup>1</sup>H BL————, 1415
- Nuclear magnetic resonance: Quantitative determination of the monoclinic crystalline

- phase content in polyethylene by <sup>13</sup>C

- Nucleation: A model for chain folding polymer crystals: rough faces are consistent with the observed growth rates, 1446
- Nucleation: Comparative d.s.c. studies of the crystallization of natural rubber and its synthetic analogues, 1823
- Nuclei migration: Spherulite nucleation in polypropylene blends with low density polyethylene, 1323
- Nylon-4: I an amorphous polyamide, 1755

- Nylon salts: Solid-state polyamidation of dodecamethylenediammonium adipate, 791
- Oligomerization: Kinetics and mechanism of cationic of styrene using poly(styrenesulphonic acid) resin as catalyst, 1486
- Optical absorption: Infra-red of oriented polyacetylene, 1253
- Optical anisotropy: Infra-red optical absorption of oriented polyacetylene, 1253
- Optical textures: Synthesis and mesormorphic properties of a new thermotropic liquid-crystalline 'backbone' copolyester, 808

- Orientation: and relaxation in uniaxiallystretched poly(2,6-dimethyl 1,4-phenylene oxide) – atactic polystyrene blends, 318
- Orientation: Aliphatic polyesters as models for relaxation processes in crystalline polymers:
  4. Dielectric relaxation in oriented specimens, 347
- Orientation: Craze behaviour in isotactic polystyrene: 1. Craze-spherulite interaction, 417
- Orientation: Ultrasonic measurements of the mechanical relaxations and complex stiffnesses in oriented linear polyethylene, 447
- Orientation: Pretransitional phenomena in the isotropic melt of a mesogenic side chain polymer, 1271
- Orientation: Quantitative determination of the monoclinic crystalline phase content in polyethylene by <sup>13</sup>C n.m.r., 1589
- Oxidation: An electron spectroscopy for chemical application investigation of the surface of bisphenol-A polycarbonate films induced by reactive oxygen species, 826
- Oxygen permeability: Observations relating to \_\_\_\_\_ measurements on membranes, 1441

- Pariser-Parr People calculation: Electrical conductivity of polySchiff bases: a theoretical study, 129
- Permanganic etching: On the lamellar morphology of isotactic polypropylene spherulites, 935
- Permeability: Selective permeability of grafted nylon-6 membranes: 1. of urea and potassium chloride in acrylamide and acrylic acid grafted membranes, 963
- Permeability: Selective of grafted nylon-6 membranes: 2. Potassium chloride permeation in acrylic acid grafted membranes, 968
- Peroxide: Studies on vulcanization of silica-filled EPDM rubber in presence of vinyl silane coupling agent, 855
- Peroxy radicals: An e.s.r. study of the motion of ————————————————————in isotactic and atactic polypropylenes, 1436
- Phase dispersion: Rubber --- in polypropylene, 1527
- Phase separation: in polystyrenepoly(vinylmethylether) blends: a fluorescence emission analysis, 956
- Phase separation: Polymer mixing in aqueous solution, 979
- Phase structure: of impact-modified polypropylene blends, 279
- Phase structure: A study of conformation, configuration and of polyacrylonitrile and their mutual dependence by means of WAXS and <sup>1</sup>H BL-n.m.r., 1415
- Phase transformation: Spectroscopic study of the electric field induced microstructural changes in poly(vinylidene fluoride), 1247
- Phase transition: Monte Carlo simulation of molecular motion and — in polyethylene crystal, 178
- Phase transition: Structure and ferroelectric —— of vinylidene fluoride trifluoroethylene copolymers: 2. VDF 55% copolymer, 195
- Phase transitions: Mesomorphic transitions in a mixture of a flexible and a semi-rigid polymer, 1073
- Phenol-formaldehyde: Molecular weight distribution of --- resols by high performance gel permeation chromatography, 403
- Phenylacetylene: Copolymerization of with various acetylenes by W- and Mo-based catalysts, 503
- Phonons: Low frequency excitations in amorphous polycarbonate studied by Raman spectroscopy, 1411
- Photochromic polymers: Photoresponsive polymers: 2. The monolayer behaviour of containing aromatic azobenzene residues, 1347
- Photochromism: Photoresponsive polymeric systems. Mixed monomolecular films of some synthetic polymers and indolinospiropyrans, 999
- Photo conductivity: Control of electrical properties of polymers by chemical modification, 3
- Photoisomerization: Photoresponsive polymers: 2. The monolayer behaviour of photochromic polymers containing aromatic azobenzene residues, 1347
- Photolytic degradation: Thermal and — of plates of poly(methyl methacrylate) containing monomer. 706

- Photon correlation spectroscopy: An investigation of precipitation polymerization in liquid vinyl chloride -- -- -- ... 1185
- Photo-oxidation: Thermal and photolytic degradation of plates of poly(methyl methacrylate) containing monomer, 706
- Photoresponsive: polymeric systems. Mixed monomolecular films of some synthetic polymers and indolinospiropyrans, 999
- Photoresponsive polymers: 2. The monolayer behaviour of photochromic polymers containing aromatic azobenzene residues, 1347
- Physical ageing: of polycarbonate and PMMA by dynamic mechanical measurements, 1392
- Physical ageing: Attempt to correlate the yield processes above and below the glass transition in glassy polymers, 1523
- Physical ageing: Time-dependent deformation and craze initiation in PMMA: Volume effects, 1679
- Physical migration: Study of the mechanism of macroradical reactions in solid polymers: 1. Molecular aspects of reactivity and activation energy model of reactions, 274
- Physico-chemical modifications: of superficial regions of low-density polyethylene (LDPE) film under corona discharge, 766
- Piezoelectricity: Spectroscopic study of the electric field induced microstructural changes in poly(vinylidene fluoride), 1247
- Plastic cavitation: Theory of slow, steady state crack growth in polymer glasses, 1667
- Plastic deformation: and subsequent crystallization of thin films of isotactic/atactic polystyrene (iPS/aPS) blends, 1687
- Plasticization: Interaction of epoxy resins with water: the depression of glass transition temperature, 664
- Plasticization: Characterization and exposure of poly(etheretherketone)(PEEK) to fluid environments, 1845
- Plasticizer: Influence of aqueous acetone medium on the thermal behaviour of solvent treated poly(ethylene terephthalate), 1774
- Plastics: Tests for obtaining and investigating pre-stressed — , 722
- Polarization: Raman scattering activities for partially-oriented systems: the case of a unique molecular symmetry axis perpendicular to the uniaxial direction, 165
- Polyacetylene: New routes to conjugated polymers: 1. A two step route to polyacetylene, 395
- Polyacetylene: Electrochemical studies on doping of , 1112
- Polyacetylene: Infra-red optical absorption of oriented . . 1253
- Polyacrylamide gel: Observations on the structure of a -- from electron micrographs, 1419
- Poly(acrylamides): The determination of the degree of hydrolysis in ... ... ... ; simple methods using 13C n.m.r. and elementary analysis, 1314
- Polyacrylamides: Some aspects of the thermal stability action of the structure in aliphatic polyamides and -- . . . 1699
- Poly(acrylate): Molecular characterization of sodium --- --- by an aqueous g.p.c./LS method, 218

- Polyacrylonitrile: A study of conformation, configuration and phase structure of and their mutual dependence by means of WAXS and <sup>1</sup>H BL-n.m.r., 1415
- Polyamidation: Solid-state — of dodecamethylenediammonium adipate, 791 Polyamide: Nylon-4, I an amorphous polyamide, 1755
- Polyamideimides: Processable heat-resistant polymers: 14. Polyamides and containing azo linkages, 551
- Polyamides: Polymerization of N,N'-bismaleimido-4,4' diphenylmethane with arenedithiols. Synthesis of some new polyimidosulphides, 850
- Polyamides: Some aspects of the thermal stability action of the structure in aliphatic and polyacrilamides, 1699
- Poly(amido-amine)s: Synthesis and characterization of piperazine-derived with different distributions of amido- and amino-groups along the macromolecular chain, 863
- Poly(7-benzyl t-glutamate): Anomalous properties of - film composed of unusual 7/2 helices, 1711
- Polybutadiene: Effect of crosslinking density on the orientational order generated in strained networks: A deuterium magnetic resonance study, 1405
- Poly(butyl acrylate): In situ polymerization of n-butyl acrylate in poly(vinyl chloride), 1023 Polycarbonate: Diluent effects on carbonate mobility in bisphenol-A in

the solid state, 452

- Polycarbonate: An electron spectroscopy for chemical application investigation of the surface oxidation of bisphenol-A

   - films induced by reactive oxygen species, 826
- Polycarbonate: Physical ageing of - - - and PMMA by dynamic mechanical measurements, 1392
- Polycarbonate: Low frequency excitations in amorphous studied by Raman spectroscopy, 1411
- Polycarbonate: Isothermal relaxation of specific volume and density fluctuation in poly(methyl methacrylate) and
- Polycarbonate: Attempt to correlate the yield processes above and below the glass transition in glassy polymers, 1523
- Poly(m,p-chloromethylstyrene): Synthesis of electroreactive polymers from and copoly(m,p-chloromethylstyrene styrene), 716
- Polycondensation: New polymer syntheses: 10. Syntheses of high molecular weight poly (4-hydroxybenzoate)s by bulk condensations of 4-hydroxybenzoic acids, 520
- Polycondensation: Processable heat-resistant polymers: 14. Polyamides and polyamideimides containing azo linkages, 551
- Polycondensation: Kinetics of poly(phenylene ether sulphone), 1363

- Polydiene: Graft copolymers from azodicarboxylate-functional pre-polymers 2. Preparation in solution of graft copolymers of ———— with polystyrene, 1146

- Poly(dimethylsiloxane): Effect of crosslinking density on the orientational order generated in strained networks: A deuterium magnetic resonance study, 1405
- Poly(dimethylsiloxane): Polyurethane polysiloxane interpenetrating polymer networks: 1. A polyether urethane-poly(dimethylsiloxane) system, 1633
- Poly(dimethyl siloxanes): Studies of cyclic and linear --- : 14. Particle scattering functions, 365

- Poly(1,4-dimethylene-trans-cyclohexyl suberate): stress relaxation of, 1690
- Polyesters: Aliphatic as models for relaxation processes in crystalline polymers: 1. Characterization, 323
- Polyesters: Aliphatic as models for relaxation processes in crystalline polymers: 2. Dielectric relaxation in copolymers of adipic acid with 1,6- and 2,5-hexandiols, 330
- Polyesters: Aliphatic -— as models for relaxation processes in crystalline polymers: 3. Mechanical relaxation in copolymers of adipic acid with 1,6 and 2,5-hexanediols, 340
- Polyesters: Aliphatic — as models for relaxation processes in crystalline polymers: 4. Dielectric relaxation in oriented specimens, 347
- Poly(ether-etherketone): Characterization and exposure of -------------(PEEK) to fluid environments, 1845
- Poly(ether ketone)s: New polymer syntheses:

  11. Preparation of aromatic
  from silylated bisphenols, 1151
- Polyethertriamine: Structure-property relations of ——cured bisphenol-Adiglycidyl ether epoxies, 375
- Polyethylene: Twisting orientation and the role of transient states in polymer crystallization, 28

- Polyethylene: Carbon-13 nuclear magnetic resonance study of ethylene-1-octene and ethylene-4-methyl-1-pentene copolymers, 441

- Polyethylene: Temperature dependence of some thermodynamic functions for amorphous and semicrystalline polymers, 579

- Polyethylene: Infra-red study of solutiongrown crystals of \_\_\_\_\_: correlation with the model from neutron scattering, 749
- Polyethylene: Physico-chemical modifications of superficial regions of low-density (LDPE) film under corona discharge, 766

- Polyethylene: The thermal expansion behaviour of highly oriented ----, 1203
- Polyethylene: A neutron scattering study of slowly crystallized bulk - , 1219
- Polyethylene: Molecular fractionation in meltcrystallized — : 3. Microscopy of solvent-treated samples, 1263
- Polyethylene: Distribution of lamella thicknesses in isothermally crystallized polypropylene and by differential scanning calorimetry, 1268
- Polyethylene: The lamella size distribution in non-isothermally crystallized low density polyethylene, 1277
- Polyethylene: Spherulite nucleation in polypropylene blends with low density
- Polyethylene: Vibrations of crystallographic defects associated with a single chain in \_\_\_\_\_\_\_, 1549
- Polyethylene: Quantitative determination of the monoclinic crystalline phase content in by 13C n.m.r., 1589
- Polyethylene: A novel fluorescence technique for measurements of additive migration from polymers, 1626

- sition in — , 178

  Poly(ethylene glycol): Thermodynamics of oligomeric binary mixtures of and polypropylene glycol methylethers, 239
- Poly(ethylene glycol): Ionic conductivities of poly(methoxy polyethylene glycol monomethacrylate) complexes with LiSO<sub>3</sub>CH<sub>3</sub>, 1600
- Poly(ethylene oxide): The concentration dependence of diffusion in semi-dilute polymer solutions, 680

- Poly(ethylene oxide): Characterization of styrene-ethylene oxide and methyl methacrylate-styrene block copolymers by light scattering, 693
- Poly(ethylene oxide): Influence of composition and molecular mass on the morphology, crystallization and melting behaviour of \_\_\_\_\_/poly(methyl methacrylate) blends, 1097
- Poly(ethylene oxide): Ionic conductivities for complexes with lithium salts of monobasic and dibasic acids and blends of poly(ethylene oxide) with lithium salts of anionic polymers, 1291
- Poly(ethylene oxide): Influence of the solvent on the conformations of \_\_\_\_\_ chain grafted on silica, 1297
- Poly(ethylene oxide): Selective intermacromolecular complex formation between phenolic and nonionic polymers, 1367
- Poly(ethylene terephthalate): Effect of silica nucleants on the rates of crystallization of ------, 659
- Poly(ethylene terephthalate): Extrusion drawn amorphous and semi-crystalline

  3. Linear thermal expansion analysis, 869

- Poly(ethylene terephthalate): Analysis of polynomial yield criteria applied to oriented polymers, 1505
- Poly(ethylene terephthalate): Influence of an aqueous acetone medium on the thermal behaviour of solvent treated -----,
- Poly(ethyl vinyl ether): <sup>13</sup>C n.m.r. study of solvation mechanisms in the radiation-induced polymerization of vinyl ethers, 1131
- Polyheteroacrylenes: Reductive polyheterocyclization: A new approach to the synthesis of , 1539
- Polyheteroacrylenes: Reductive polyheterocyclization: A new approach to the synthesis of --- --- , 1539

- Polyimides: from dianhydride and diamine: structure property relations by thermogravimetric analysis (t.g.a.), 1353
- Polyisoprenes: Comparative d.s.c. studies of the crystallization of natural rubber and its synthetic analogues, 1823
- Polymer melts: Characteristic molecular weights in the dynamics of \_\_\_\_\_\_\_:

  n.m.r. and zero-shear viscosity, 187

- Polymer melts: Stress relaxation of -- - subjected to large unixial tension, 1049
- Polymer solution: Scattering from a at an arbitrary concentration,
- Polymer solutions: A unified model for the structure of polymers in semidilute solution, 387
- Polymer supported: Some novel
  --- optically active phase transfer catalysts: 2. Use in displacement, reduction, epoxidation and addition reactions,
  1499
- Polymer supported reagent: Influence of the polymer on an anionic activation reaction promoted by a supported crown ether, 1136
- Polymer synthesis: New polymer syntheses: 10. Syntheses of high molecular weight poly (4-hydroxybenzoate)s by bulk condensations of 4-hydroxybenzoic acids, 520
- Polymer systems: On the assessment of incoherent neutron scattering intensities from --- ... 1068
- Polymerization: Configurational statistics of copolymers prepared by complex radical -- ... , 100
- Polymerization: Vinyl polymerization: 414. of vinyl monomer initiated by poly(N,N,N-trimethyl-N-2-methacryl-oxyethyl) ammonium chloride, 412
- Polymerization: The miscibility of polyacrylates and polymethacrylates with PVC: In situ and the miscibility of poly(methyl acrylate) and Poly(ethyl acrylate) with PVC, 495
- Polymerization: Synthesis of methacrylic acid styrene block copolymers by living radical in the presence of chitosan, 507
- Polymerization: of vinyl acetate using visible radiation and a dye-reducing agent sensitizer: 1. Pre-initiation and initiation reactions involving ethyl eosin and ascorbic acid, 529
- Polymerization: of vinyl acetate using visible radiation and a dye-reducing agent sensitizer: 2. Kinetic studies and polymerization mechanism, 536
- Polymerization: Epitaxial synthesis of poly(p-xylylene), 615
- Polymerization: Novel excimer fluorescence method for monitoring -- 1: Polymerization of methyl methacrylate, 690
- Polymerization: of acrylamide with diffusioncontrolled termination, 845
- Polymerization: of N,N'-bismaleimido-4,4'-diphenylmethane with arenedithiols. Synthesis of some new polyimidosulphides, 850
- Polymerization: In situ — of nbutyl acrylate in poly(vinyl chloride), 1023
- Polymerization: Electro-initiated cationic — of α-methylstyrene by direct electron transfer, 1028
  Polymerization: <sup>13</sup>C n.m.r. study of solvation
- Polymerization: <sup>13</sup>C n.m.r. study of solvation mechanisms in the radiation-induced -- -- of vinyl ethers, 1131
- Polymerization: Chain branching in high pressure polymerized polyethylene: 2., 1173
- Polymerization: Aspects of the chemistry of poly(ethylene terephthalate): 5.

- — of bis(hydroxyethyl) terephthalate by various metallic catalysts, 1333 Polymerization: Styrene polymerized in an oil-in-water microemulsion, 1357
- Polymerization: Polycondensation kinetics of poly(phenylene ether sulphone), 1363
- Polymerization: Polyvinylpyridine divinylbenzene asbestos composites, 1513
- Polymerization: Studies of the stereospecific — — mechanism of propylene by a modified Ziegler Natta catalyst based on 125 MHz <sup>13</sup>C n.m.r. spectra, 1640
- Polymerization: Ziegler Natta — The nature of the propagation step, 1645
- Polymerization: Microstructure of aspolymerized thermoplastic polyurethane elastomers, 1734
- Polymerization: Synthesis of polymers and copolymers of c-(N<sup>e</sup>-AcrLys-Sar) and their interaction with small molecules in solution, 1837
- Polymethacrylates: The miscibility of polyacrylates and -- -- with PVC: In Situ polymerization and the miscibility of poly(methyl acrylate) and poly(ethyl acrylate) with PVC, 495
- Polymethacrylates: The miscibility of polyacrylates and -- with PVC: An interpretation of the heats of mixing of oligomers, 499
- Poly(7-methyl (1-glutamate): Crystalline complex between 1 methyl 1, and dimethyl phthalate, 698
- Poly(methoxy polyethylene glycol monomethacrylate): Ionic conductivities of complexes with LiDO<sub>3</sub>CH<sub>3</sub>, 1600
- Poly(methyl methacrylate): Quantitative evaluation of the Gibbs theory of the glass transition, 600
- Poly(methylmethacrylate): Characterization of styrene ethylene oxide and methyl methacrylate styrene block copolymers by light scattering, 693
- Poly(methyl methacrylate): Thermal and photolytic degradation of plates of containing monomer, 706
- Poly(methyl methacrylate): Low frequency excitation in amorphous acrylic polymers, 899
- Poly(methyl methacrylate): Quantitative evaluation of the Gibbs Di Marzio theory of the glass transition, 927
- Poly(methyl methacrylate): Stress relaxation of polymer melts subjected to large uniaxial tension, 1049
- Poly(methyl methacrylate): Influence of composition and molecular mass on the morphology, crystallization and melting behaviour of poly(ethylene oxide): - blends, 1097
- Poly(methylmethacrylate): A broad-line n.m.r. investigation of methyl motion in 1227
- Poly(methylmethacrylate): Cosolvency, coil expansion and dimensions of in mixed solvents, 1307
- Polymethylmethacrylate: Physical ageing of polycarbonate and by dynamic mechanical measurements, 1392
- Poly(methyl methacrylate): Isothermal relaxation of specific volume and density fluctuation in — -- and polycarbonate, 1424
- Poly(methylmethacrylate): Time-dependent deformation and craze initiation in

- : Volume effects, 1679
- Poly(methylmethacrylate): Energy transfer studies from polymer bound naphthalene to anthracene in solution: translational and segmental diffusion rates, 1767
- Poly(4-methylpentene-1): Effect of solvent on the polymorphism of - - : 2. Crystallization in semi-dilute solutions, 1619
- Poly(α-methyl styrene): Quantitative evaluation of the Gibbs -DiMarzio theory of the glass transition, 927
- Poly(α-methyl styrene): Electro initiated cationic polymerization of α-methylstyrene by direct electron transfer, 1028
- Poly(α-methylstyrene): and α-methylstyrenemaleic anhydride copolymer: an electron beam lithographic study, 1087
- Poly(α-methyl styrene): Polymer polymer interaction parameters in the ternary system polystyrene n-butyl chloride.
- Polymorphism: Effect of solvent on the of poly(4-methylpentene-1): 1. Solution grown single crystals, 1613
- Polymorphism: Effect of solvent on the of poly(4-methylpentene-1): 2. Crystallization in semi-dilute solutions, 1619
- Polynomial yield criteria: Analysis of applied to oriented polymers.
- Polyolefins: Migration of low molecular weight components from polymers: I. Methodology and diffusion of straight chain octadecane in 209
- Polyorganosiloxane: Acrylic terpolymer modified by blending with polymer or reinforcing, 1603
- Poly(oxyethylene): Gas liquid chromatography study of poly(ethylene oxide) solvent interactions: A molecular approach to solvation mechanisms, 1784
- Poly(phenylene ether sulphone): Polycondensation kinetics of 1363
- Poly(p-phenylene oxidels: Dielectric, mechanical and thermal properties of some chlorinated in the solid state, 625 Polypivalolactone: Morphology of
- a polymer with a direction,
- Polypropylene: Phase structure of impactmodified blends, 279
- Polypropylene: The freezing-in of nonequilibrium values of the limiting compliances as a mechanism of physical ageing, 291
- Polypropylene: The kinetics of  $\alpha$  and  $\beta$  relaxations in isotactic , 299
- Polypropylene: On the lamellar morphology of isotactic spherulites, 935
- Polypropylene:Ionic products from the mechanical fracture of solid 944
- Polypropylene: Mechanisms of antioxidant action: effect of processing conditions on the stabilizing effectiveness of metal xanthates and related dixanthogen in 1006
- Polypropylene: Distribution of lamella thicknesses in isothermally crystallized and polyethylene by differential scanning calorimetry, 1268

- Polypropylene: Recrystallization kinetics of isotactic —— (α form), 1462
- Polypropylene: Small-angle scattering of microparacrystal-bundles in cold-drawn and annealed isotactic - , 1747
- Polypropylene: The synthesis of low molecular weight hydroxy-tipped polyethylene and by the intermediacy of Ziegler Natta catalysts, 1817
- Polypropylenes: The effect of cooling rate upon the morphology of quenched melts of isotactic — 785
- Polypropylene glycol: Thermodynamics of oligomeric binary mixtures of poly(ethylene glycol) and — methylethers, 239
- PolySchiff bases: Electrical conductivity of \_\_\_\_\_\_: a theoretical study, 129
- Poly(sodium styrenesulphonate): Mediated electron transfer reactions at electrodes coated with poly(viologen)s, 1302
- Polystyrene: Physical characterization of suspension-crosslinked particles and their sulphonated products: 1. Nonionic networks, 245
- Polystyrene: Physical characterization of suspension-crosslinked — particles and their sulphonated products: 2. Ionic networks, 249
- Polystyrene: Compatibility and neutron scattering studies of mixtures of with poly(2,6-dimethyl 1,4-phenylene oxide) and its brominated derivatives, 357

- Polystyrene: Dynamic light scattering measurements of in semi-dilute theta solutions, 650
- Polystyrene: The concentration dependence of diffusion in semi-dilute polymer solutions, 680
- Polystyrene: Characterization of styrene ethylene oxide and methyl methacrylate-styrene block copolymers by light scattering, 603
- Polystyrene: Interaction parameters in ternary
  —————————————— solutions at high temperature, 803
- Polystyrene: Structure of -- -- glasses, 906
- Polystyrene: Quantitative evaluation of the Gibbs DiMarzio theory of the glass transition, 927

- Polystyrene: Intramolecular excimer formation and energy migration in head-to-head · · , 989

  Polystyrene: Strees relaxation of polymer
- Polystyrene: Strees relaxation of polymer melts subjected to large uniaxial tension, 1049
- Polystyrene: Upper and lower critical solution temperatures for in methyl cyclopentane and in dimethyl cyclohexane, 1107
- Polystyrene: Graft copolymers from azodicarboxylate-functional pre-polymers:

  1. Synthesis of azodicarboxylate-functional

  -------, 1141
- Polystyrene: Graft copolymers from azodicarboxylate-functional pre-polymers:

  2. Preparation in solution of graft copolymers of polydiene with \_\_\_\_\_\_,

  1146
- Polystyrene: Direct lattice imageing in single crystals of isotactic ——, 1573
- Polystyrene: Plastic deformation and subsequent crystallization of thin films of isotactic/atactic ------ (iPS/aPS) blends, 1687
- Polystyrene: Polymer-polymer interaction parameters in the ternary system ——— poly(α-methyl styrene)/n-butyl chloride, 1779
- Polystyrenes: cyclization dynamics of polymers: 10. Synthesis, fractionation, and fluorescent spectroscopy of pyrene end-capped polystyrenes, 91

- Polystyrene sulphonate: Electro-optical and viscometric behaviour of sodium in formamide, 1397
- Poly(sulphopropylbetaines): 1. Synthesis and characterization, 121
- Poly(sulphopropylbetaines): 2. Dilute solution properties, 254
- Poly(N,N,N-trimethyl-N-2-
- methacryloxyethyl) ammonium chloride: Vinyl polymerization: 414. Polymerization of vinyl monomer initiated by
- Poly(trimethylene sulphide): Conformational stability of , 511
- Polyurethane: Properties of oligomeric blends versus high molecular weight block copolymers, 947
- Polyurethane: Microcellular elastomers: 2. Effect of chain extender on the mechanical properties, 1211
- Polyurethane: polysiloxane interpenetrating polymer networks: 1. A polyether urethane-poly(dimethylsiloxane) system, 1633

- Polyurethane elastomers: Microstructure of as-polymerized thermoplastic
- Poly(vinyl acetate): Studies on the characterization of partly hydrolysed derivatives of
  and their red iodine complex,
- Poly(vinyl alcohol): Influence of the molecular structure of \_\_\_\_\_\_ on the ultrasonic absorption, 985
- Poly(vinyl alcohol-acetate): Characterization of by <sup>13</sup>C n.m.r. and thermal analyses, 1759

- Poly(vinyl chloride): In situ polymerization of n-butyl acrylate in \_\_\_\_\_\_\_\_, 1023
- Poly(vinyl chloride): An investigation of precipitation polymerization in liquid vinyl chloride by photon correlation spectroscopy, 1185
- Poly(vinyl chloride): Analysis of polynomial yield criteria applied to oriented polymers, 1505
- Poly(vinylidene fluoride): Dielectric relaxation and the molecular motion of crystal form II under high pressure, 63
- Poly(vinylidene fluoride): Spectroscopic study of the electric field induced microstructural changes in ——, 1247
- Poly(vinylmethylether): Phase separation in polystyrene— blends: a fluorescence emission analysis, 956
- Polyvinylpyridine-divinylbenzene: asbestos composites, 1513
- Poly(vinylpyrrolidone): Selective intermacromolecular complex formation between phenolic and nonionic polymers, 1367
- Poly(p-xylylene): Epitaxial synthesis of \_\_\_\_\_\_ -, 615
- Potential energy calculations: Crystal structure of cellulose polymorphs by — ———————————————: 1. Most probable models for mercerized cellulose, 107
- Precipitation: An investigation of polymerization in liquid vinyl chloride by photon correlation spectroscopy, 1185
- Petransitional phenomena: in the isotropic melt of a mesogenic side chain polymer, 1271 Propagation: Ziegler-Natta polymerization:
- The nature of the ———— step, 164.

- Polypropylene: Studies of the stereospecific polymerization mechanism of by a modified Ziegler-Natta catalyst based on 125 MHz <sup>13</sup>C n.m.r.

spectra, 1640 1-Pyrenebutyrate: Interaction

- — with poly(vinylbenzo-18crown-6) and poly(vinylbenzoglyme) in water, 1166
- Pyrolysis: Thermal degradation of poly(vinyl chloride) in oxidative and non-oxidative atmospheres, 1337
- Radiation: Electron spin resonance study of a cured epoxy resin exposed to high-energy . 54
- Radiation: <sup>13</sup>C n.m.r. study of solvation mechanisms in the - induced polymerization of vinyl ethers, 1131
- Radiation: The ; induced grafting of unsaturated segmented polyurethane with n-vinyl pyrrolidone, 1157
- Radiation: Induced copolymerization of trioxane with tetrahydrofuran, 1193
- Radiation crosslinking: Micellization of threeblock copolymer poly[styrene-b-(ethene-cobutene)-b-styrene] in mixed solvents of tetrahydrofuran/ethanol, 1178
- Radiation damage: Direct lattice imageing in single crystals of isotactic polystyrene, 1573
- Radius of gyration: Studies on the characterization of partly hydrolysed derivatives of poly(vinyl acetate) and their red iodine complex, 543
- Radius of gyration: Scattering function of poly(amino acid) in helix-coil transition, 1258
- Radius of gyration: Effects of the excluded volume interactions on the conformational properties of star polymers, 1607
- Raman scattering: activities for partiallyoriented systems: the case of a unique molecular symmetry axis perpendicular to the uniaxial direction, 165
- Raman spectroscopy: Low frequency excitation in amorphous acrylic polymers, 899
- Raman spectroscopy: Low frequency excitations in amorphous polycarbonate studies by -- ----- , 1411
- Rate coefficients: Studies of absolute in alternating copolymerization by observation of pre- and after-effects, 1791
- Rate determining step: Ziegler-Natta polymerization: The nature of the propagation step, 1645
- Reaction mechanisms: Studies of absolute rate coefficients in alternating copolymerization by observation of pre- and after-effects, 1791
- Reactivity: Studies on the polymers: 2. Chlorination of poly(vinylidene chloride) by sulphuryl chloride in the presence of azobisisobutyronitrile, 1371
- Recovery: Creep and behaviour of ultra-high molecular weight polyethylene in the region of small uniaxial deformations, 57

- Recrystallization: Kinetics of isotactic polypropylene (α form), 1462
- Red iodine complex: Studies on the characterization of partly hydrolysed derivatives of poly(vinyl acetate) and their \_\_\_\_\_\_,
- Reduction: of smoke formation from and flammibility of thermoplastic polymers by metal oxides, 405
- Reduction: Some novel polymer supported optically active phase transfer catalysts: 2.

  Use in displacement, ————, epoxidation and addition reactions, 1499
- Reinforced plastics: Tests for obtaining and investigating pre-stressed plastics, 722
- Relaxation: Orientation and in uniaxially-stretched poly(2,6-dimethyl 1,4-phenylene oxide) atactic polystyrene blends, 318
- Relaxation: Dielectric studies of nitrocellulose-nitroglycerine mixtures, 815
- Relaxation: Stress — of polymer melts subjected to large uniaxial tension, 1049
- Relaxation: Isothermal — of specific volume and density fluctuation in poly(methyl methacrylate) and polycarbonate, 1424
- Relaxation kinetics: The kinetics of the relaxation in an amorphous polymer at temperatures close to the glass transition, 309
- Relaxation processes: Aliphatic polyesters as models for in crystalline polymers: 2. Dielectric relaxation in copolymers of adipic acid with 1,6 and 2,5-hexanediols, 330
- Relaxation processes: Aliphatic polyesters as models for — in crystalline polymers: 3. Mechanical relaxation in copolymers of adipic acid with 1,6- and 2.5-hexanediols, 340
- Relaxation processes: Aliphatic polyesters as models for in crystalline polymers: 4. Dielectric relaxation in oriented specimens, 347
- Relaxation time: Factors determining glass transition temperature and - of poly(vinyl chloride), 75
- Reptation: Characteristic molecular weights in the dynamics of polymer melts: n.m.r. and zero-shear viscosity, 187
- Reptation: Dynamic light scattering measurements of polystyrene in semi-dilute theta solutions, 650
- Reptation: Viscoelasticity of ionomer gels: 2. The elastic moduli, 1469
- Reptation model: Stress relaxation of polymer melts subjected to large uniaxial tension, 1049
- Resins: Non-Fickian diffusion of water in melamine-formaldehyde -- , 84
- Resins: Characterization of ureaformaldehyde and melamine-formaldehyde adducts and -- -- by <sup>15</sup>N nuclear magnetic resonance spectroscopy, 821
- Resist study: Copolymers of 2-hydroxyethyl methacrylate and methyl methacrylate; an electron beam — , 1090
- Resols: Molecular weight distribution of phenol formaldehyde — by high performance gel permeation chromatography, 403
- Retardation: Effect of silica nucleants on the rates of crystallization of poly(ethylene terephthalate), 659
- Rheokinetics: of free-radical polymerization, 778

- Rubber: The van der Waals-network -- a phenomenological approach to dense networks, 71

- Rubber: Effect of crosslinking density on the orientation order generated in strained networks: A deuterium magnetic resonance study, 1405
- Rubber: phase dispersion in polypropylene, 1527
- Rubber: A wide-angle X-ray study of the development of molecular orientation in crosslinked natural -- -- 1562
- Rubber vulcanizates: Studies of the network structure of — by a cryoscopic method: 1., 225
- Rubber vulcanizates: Stress relaxation in carbon-black filled -- at moderate strains, 559
- Rubber vulcanizates: Studies of the network structure of --- by cryoscopic methods: 2., 1117
- Rupture: Creep rupture of a linear polyethylene: 1. - and prerupture phenomena, 727
- Scaling: Conformations of star-branched macromolecules, 1453
- Scaling theory: A unified model for the structure of polymers in semi-dilute solution, 387
- Scattering function: of poly(amino acid) in helix-coil transition, 1258
- Second virial coefficients: Interaction parameters in the nundecane/butanone/poly(dimethylsiloxane) system, 1479
- Segmental interaction: Properties of oligomeric polyurethane blends versus high molecular weight block copolymers, 947
- Shear field: Effectiveness thickness of adsorbed polymer in a -- -- -- -- , 1198
- Shrinkage force: The thermal expansion behaviour of highly oriented polyethylene, 1203
- Silica nucleants: Effect of -- -- -- on the rates of crystallization of poly(ethylene terephthalate), 659
- Silicone-urea: Segmented organosiloxane copolymers: 1. Synthesis of — — copolymers, 1800
- Siloxane urea: Segmented organosiloxane copolymers: 2. Thermal and mechanical properties of — — copolymers, 1807 Sliding link model: Assessment of the
- Sliding link model: Assessment of the -- of chain entanglement in polymer networks, 609
- Small-angle light scattering: Studies of macrophase separation in segmented polyurethane block copolymers, 171
- Small-angle neutron scattering: Scattering from a polymer solution at an arbitrary concentration, 1059
- Small-angle neutron scattering: On the assessment of incoherent neutron scattering intensities from polymer systems, 1068
- Small-angle neutron scattering: from polystyrene- DVB networks containing a delta fraction of deuterated polystyrene: Evidence for aggregation during polymerization, 1718

- Small-angle scattering: of microparacrystalbundles in cold-drawn and annealed isotactic polypropylene, 1747
- Small-angle X-ray scattering: Distribution of lamella thicknesses in isothermally crystallized polypropylene and polyethylene by differential scanning claorimetry, 1268
- Smoke suppressants: Reduction of smoke formation from and flammibility of thermoplastic polymers by metal oxides, 405
- Solution properties: Poly(sulphopropylbetaines): 2. Dilute --- , 254
- Solvation coefficients: Interaction parameters in the n-undecane/butanone/poly(dimethylsiloxane) system, 1479
  Solvation mechanisms: <sup>13</sup>C n.m.r. study of

- Solvent casting: Morphology control of a poly(styrene butadiene-b-4-vinylpyridine)

  ABC three-block polymer by binary

   , 230
- Solvent effect: Fluorescence probe for microenvironments: effect of solvent vapour on the properties of vapour-swollen polymers, 399
- Solvent effect: Effect of solvent on the polymorphism of poly(4-methylpentene-1): 2. Crystallization in semi-dilute solutions, 1619
- Solvent treatment: Molecular fractionation in melt-crystallized polyethylene: 3. Microscopy of solvent-treated samples, 1263
- Solvent vapour: Fluorescence probe for microenvironments: effect of on the properties of vapour-swollen polymers, 399
- Specific heat: Low frequency excitations in amorphous polycarbonate studied by Raman spectroscopy, 1411
- Spherulite: Craze behaviour in isotactic polystyrene: 1. Craze———————————interaction, 417
- Spherulite: Microstructure of as-polymerized thermoplastic polyurethane elastomers, 1734
- Spherulite nucleation: in polypropylene blends with low density polyethylene, 1323
- Spherulites: Morphology of polypivalolactone: A polymer with a direction, 773
- Spherulites: Reversible secondary crystallization during cooling of polypropylene, 921
- Spherulites: On the lamellar morphology of isotactic polypropylene —, 935
  Star-branched magramolecules Confor
- Star-branched macromolecules: Conformations of \_\_\_\_\_\_, 1453
- Star polymers: Effect of the excluded volume interactions on the conformational properties of ———, 1607
- Statistical conformations: Dipole moments and --- of cyclic and linear dimethylsiloxane oligomers, 1122
- Stereoregularity: Studies of the stereospecific polymerization mechanism of propylene by a modified Ziegler Natta catalyst based on 125 MHz <sup>13</sup>C n.m.r. spectra, 1640

- Strain: Stress relaxation in carbon-black filled rubber vulcanizates at moderate strains, 559
- Stress: Electron paramagnetic resonance studies of Kevlar 49 fibres: induced free radicals, 759
- Stress: relaxation of polymer melts subject3d to large uniaxial tension, 1049
- Stress-relaxation: Creep and recovery behaviour of ultra-high molecular weight polyethylene in the region of small uniaxial deformations, 57
- Stress-relaxation: Non-Fickian diffusion of water in melamine-formaldehyde resins, 84 Stress relaxation: in carbon-black filled rubber vulcanizates at moderate strains, 559
- Stress relaxation: Viscoelasticity of ionomer gels: 2. The elastic moduli, 1469
- Stress relaxation: of poly(1,4-dimethylenetrans-cyclohexyl suberate), 1690
- Stretching: Effective thickness of adsorbed polymer in a shear field, 1198
- Structure: A unified model for the of polymers in semi-dilute solution, 387
- Structure: The of copoly(4-hydroxybenzoic acid/2-hydroxy-6-naphthoic acid): 2. An atomic model for the copolyester chain, 435
- Structure: of polystyrene glasses, 906
- Structure: Observations on the of a polyacrylamide gel from electron micrographs, 1419
- Structure: Effect of solvent on the polymorphism of poly(4-methylpentene-1): 1. Solution grown single crystals, 1613
- Structure: Some aspects of the thermal stability action of the ---- in aliphatic polyamides and polyacrilamides, 1699
- Structure-property relations: of polyethertriamine cured bisphenol-A-diglycidyl ether epoxies, 375
- Styrene: polymerized in an oil-in-water microemulsion, 1357
- Styrene: Bulk copolymerization of methyl methacrylate and --- in presence of an acrylic elastomer: 1. Kinetic investigations, 1475
- Styrene: Kinetics and mechanism of cationic oligomerization of using poly(styrenesulphonic acid) resin as catalyst, 1486

- Surface activity: Structural interpretation of the interfacial properties of aqueous solutions of methylcellulose and hydroxypropyl methylcellulose, 481
- Surface analysis: New developments in polymer —, 1379
- Surface energies: Crystal growth kinetics and the lateral habits of polyethylene crystals, 631
- Synthesis: Cyclization dynamics of polymers:

  10. ———, fractionation, and fluorescent spectroscopy of pyrene end-capped polystyrenes, 91

- Synthesis: Poly(sulphopropylbetaines): 1. and characterization, 121
- Synthesis: New routes to conjugated polymers: 1. A two step route to polyacetylene,
- Synthesis: of methacrylic acid-styrene block copolymers by living radical polymerization in the presence of chitosan, 507
- Synthesis: of electroreactive polymers from poly(m,p-chloromethylstyrene) and poly(m,p-chloromethylstyrene-styrene), 716
- Synthesis: and mesomorphic properties of a new thermotropic liquid-crystalline 'backbone' copolyester, 808
- Synthesis: and characterization of piperazinederived poly(amido-amine)s with different distributions of amido- and amino-groups along the macromolecular chain, 863
- Synthesis: of lead dimethacrylate, 1020
- Synthesis: Graft copolymers from azodicarboxylate-functional pre-polymers:

  1. —— of azodicarboxylate-functional polystyrene, 1141
- Synthesis: New polymer syntheses: 11. Preparation of aromatic poly(ether ketone)s from silylated bisphenols, 1151
- Synthesis: and solution properties of water soluble copolymers based on acrylamide and quaternary ammonium acrylic comonomer, 1317
- Synthesis: Some novel polymer-supported optically active phase transfer catalysts: 1. -- -- , 1491
- Synthesis: Reductive polyheterocyclization: A new approach to the ———————————————— of polyheteroacrylenes, 1539
- Synthesis: Nylon-4,I an amorphous polyamide, 1755
- Synthesis: Segmented organosiloxane copolymers. 1. of silicone-urea copolymers, 1800
- Synthesis: Kinetic observations and characteristics of poly(arylene ether sulphones) prepared via a potassium carbonate DMAC process, 1827
- Synthesis: of polymers and copolymers of c- $(N\varepsilon$ -AcrLys Sar) and their interaction with small molecules in solution, 1837
- Tailor-made polymer: A ——— for tyre applications, 132
- Temperature coefficients: Dipole moments and statistical conformations of cyclic and linear dimethylsiloxane oligomers, 1122
- Temperature dependence of the zero-shear melt viscosity of oligomeric epoxy resins, 463
- Temperature dependence: Residual of normalized diffusion of polystyrene latex in aqueous solvents, 467
- Temperature dependence: of some thermodynamic functions for amorphousand semicrystalline polymers, 579
- Temperature dependence: of the tensile properties of lignin/paper composites, 890
- Temperature dependence: of crackpropagation parameters and crack morphology of the semicrystalline polyester poly(1,4-dimethylene-trans-cyclohexyl suberate), 1040
- Tensile properties: Temperature dependence of the — of lignin/paper composites, 890
- Tensile tests: Tests for obtaining and investigating pre-stressed plastics, 722

- Terpolymer: Acrylic — modified by blending with polyorganosiloxane polymer or reinforcing, 1603

- Thermal analysis: Characterization of poly(vinyl alcohol-acetate) by <sup>13</sup>C n.m.r. and thermal analyses, 1759
- Thermal behaviour: Influence of an aqueous acetone medium on the thermal of solvent treated poly(ethylene terephthalate), 1774
- Thermal degradation: Thermal and photolytic degradation of plates of poly(methyl methacrylate) containing monomer, 706
- Thermal degradation: Studies of the network structure of rubber vulcanizates of cryoscopic methods: 2, 1117
- Thermal degradation: of poly(vinyl chloride) in oxidative and non-oxidative atmospheres, 1337
- Thermal expansion: The -- behaviour of highly oriented polyethylene, 1203
- Thermal expansion analysis: Extrusion drawn amorphous and semi-crystalline poly(ethylene terephthalate): 3. Linear -- -- 869
- Thermal properties: Segmented organosiloxane copolymers: 2. Thermal and mechanical, properties of siloxane urea copolymers, 1807
- Thermal stability: Some aspects of the ... action of the structure in aliphatic polyamides and polyacrylamides, 1699
- Thermodynamic properties: Influence of polymer molecular weight on selected
   -- of polymer/solvent systems and the application of the UNIFAC theory, 670
- Thermodynamic functions: Temperature dependence of some - for amorphous and semi-crystalline polymers, 579
- Thermodynamics: of oligomeric binary mixtures by polyethylene glycol and polypropylene glycol methylethers, 239
- Thermodynamics: A binary interaction model for miscibility of copolymers in blends, 487 Thermodynamics: Scattering from a polymer
- solution at an arbitrary concentration, 1059 Thermogravimetric analysis: Polyimides from dianhydride and diamine: structure property relations by -- (t.g.a.),
- Thermoplastic polymers: Reduction of smoke formation from and flammability of by metal oxides, 405
- Thermoplastic: Microstructure of aspolymerized – polyurethane elastomers, 1734
- Thermostable polymers: Reductive polyheterocyclization: A new approach to the synthesis of polyheteroacrylenes, 1539
- Theta solutions: Dynamic light scattering measurements of polystyrene in semidilute -- , 650
- Tortuosity factor: Selective permeability of grafted nylon-6membranes: 2. Potassium chloride permeation in acrylic acid grafted membranes, 968

- Transition metal catalysts: Copolymerization of phenylacetylene with various acetylenes by W- and Mo-based catalysts, 503
- Triboelectric charging: Control of electrical properties of polymers by chemical modification, 3
- Trioxane- Radiation-induced copolymerization of -- with tetrahydrofuran, 1193
- Twisting orientation: and the role of transient states in polymer crystallization, 28
- Tyre applications: A tailor-made polymer for -, 132
- Ultrasonic absorption: Influence of the molecular structure of poly(vinyl alcohol) on the
- Ultrasonic measurements: of the mechanical relaxations and complex stiffnesses in oriented linear polyethylene, 447
- Ultra-violet microscopy: Reversible secondary crystallization during cooling of polypropylene, 921
- Ultra-violet radiation: Crosslinking of ultrahigh molecular weight polyethylene in the oriented state with dicumylperoxide, 513
- UNIFAC theory: Influence of polymer molecular weight on selected thermodynamic properties of polymer/solvent systems and the application of the --- 670 Urea: Characterization of -
- formaldehyde and melamine formaldehyde adducts and resins by <sup>15</sup>N nuclear magnetic resonance spectrosocpy, 821
- Vibrations: of crystallographic defects associated with a single chaun in polyethylene, 1549
- Vinyl acetate: Polymerization of — using visible radiation and a dye-reducing agent sensitizer: 1. Preinitiation and initiation reactions involving ethyl eosin and ascorbic acid, 529
- Vinyl acetate: Polymerization of -- using visible radiation and a dye-reducing agent sensitizer: 2. Kinetics studies and polymerization mechanism, 536
- Vinyl chloride: An investigation of precipitation polymerization in liquid — by photon correlation spectroscopy, 1185
- Vinyl polymerization: 414. Polymerization of vinyl monomer initiated by poly(N,N,N-trimethyl-N-2-methacryloxyethyl) ammonium chloride, 412
- N-Vinyl pyrrolidone: The 7-radiation induced grafting of unsaturated segmented polyurethane with -- -- , 1157
- Viscoelastic creep: The kinetics of the  $\alpha$  and  $\beta$  relaxations in isotactic polypropylene, 299
- Viscoelastic model: A simple -- -- for fatigue crack propagation in polymers as a function of molecular weight, 1657
- Viscoelasticity: of ionomer gels: 2. The elastic moduli, 1469
- Viscometric behaviour: Electro-optical and

   — of sodium polystyrene sulphonate in formamide, 1397
- Viscometry: Interaction parameters in ternary polystyrene solutions at high temperature, goz

- Viscosity: Characteristic molecular weights in the dynamics of polymer melts: n.m.r. and zero-shear — — —, 187
- Viscosity: Temperature dependence of the zero-shear melt -- - of oligomeric epoxy resins, 463
- Viscosity: Influence of polymer molecular weight on selected thermodynamic properties or polymer/solvent systems and the application of the UNIFAC theory, 670
- Viscosity: Rheokinetics of free-radical polymerization, 778
- Viscosity: Dynamic and static properties of styrene-butadiene-styrene triblock copolymer and their blends, 882
- Viscosity: Cosolvency, coil expansion and dimensions of PMMA in mixed solvents, 1307
- Viscosity: Electro-optical and viscometric behaviour of sodium polystyrene sulphonate in formamide, 1397
- Viscosity: Interaction parameters in the nundecane/butanone/poly(dimethylsiloxane) system, 1479
- Visible radiation: Polymerization of vinyl acetate using -- and a dye-reducing agent sensitizer: 1. Pre-initiation and initiation reactions involving ethyl eosin and ascorbic acid, 529
- Visible radiation: Polymerization of vinyl acetate using and a dye-reducing agent sensitizer: 2. Kinetic studies and polymerization mechanism, 536
- Volume effects: Time-dependent deformation and craze initiation in PMMA:

  --- -- , 1679
- Vulcanization: Studies on peroxide of silicafilled EPDM rubber in presence of vinyl silane coupling agent, 855
- Walls: in liquid crystalline polymers: an electron microscopy study, 1235
- Water: Non-Fickian diffusion of -- in melamine-formaldehyde resins, 84
- Water: Interaction of epoxy resins with the depression of glass transition temperature, 664
- Water: Interaction of 1-pyrenebutyrate with poly(vinylbenzo-18-crown-6) and poly(vinyl-benzoglyme) in 1166
- Water sorption: and desorption in 2hydroxyethyl-
- methacrylate methylmethacrylate copolymers, 686
- Wide-angle X-ray scattering: A study of conformation, configuration and phase structure of polyacrylonitrile and their mutual dependence by means of and H BL-n.m.r., 1415
- Wide-angle X-ray study: A of the development of molecular orientation in crosslinked natural rubber, 1562
- Xanthates: Mechanisms of antioxidant action:
  effect of processing conditions on the stabilizing effectiveness of metal and related dixanthogen in polypropylene,
- X-ray diffraction: Aliphatic polyesters as models for relaxation processes in crystalline polymers: 1. Characterization, 323
- X-ray diffraction: The structure of copoly(4-hydroxybenzoic acid, 2-hydroxy-6-naph-thoic acid): 2. An atomic model for the copolyester chain, 435

- X-ray diffraction: Crystalline complex between poly(y-methyl 1.-glutamate) and dimethyl phthalate, 698
- X-ray diffraction: Molecular packing in alkylated and chlorinated poly-p-xylenes, 1093
- X-ray diffraction: Thermotropic liquid crystalline polyesters with terphenyl moieties and flexible 'ether'spacers in the main chain, 1281
- X-ray diffraction: Grafting of acrylamide to nylon-6 by the electron beam pre-irradiation technique: 3. Degree of crystallinity at high grafting yields, 1431
- X-ray scattering: Microphase structure features of network block polymer over a wide temperature range, 459

- X-ray scattering: Structure of polystyrene glasses, 906
- X-ray scattering: A wide-angle X-ray study of the development of molecular orientation in crosslinked natural rubber, 1562
- X-ray photoelectron spectroscopy: An electron spectroscopy for chemical application investigation of the surface oxidation of disphenol-A polycarbonate films induced by reactive oxygen species, 826
- X-ray photoelectron spectroscopy: New developments in polymer surface analysis, 1379
- Yield processes: Attempt to correlate the above and below the glass transition in glassy polymers, 1523
- Ziegler Natta catalyst: Studies of the stereospecific polymerization mechanism of propylene by a modified based on 125 MHz <sup>13</sup>C n.m.r. spectra, 1640
- Ziegler-Natta: polymerization: The nature of the propagation step, 1645

#### Journal of



published in association with the Molecular Graphics Society

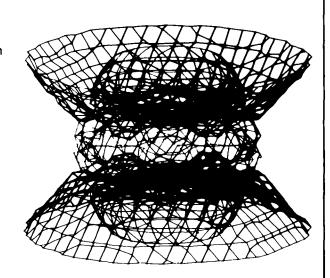
#### Dr. W. G. Richards, University of Oxford

Computer graphics is an important and useful technique for chemists, molecular biologists, pharmaceutical researchers and others engaged in investigating molecular structure, function and interaction.

The Journal of Molecular Graphics assists researchers in using computers to visualize, manipulate and interact with molecular models, by publishing new results from a wide range of disciplines.

For further details and a sample copy, please contact:

Mrs. Sheila King, Butterworth Scientific Ltd., P.O. Box 63, Westbury House, Bury Street, Guildford, Surrey GU2 5BH. UK



# POLYMER COMMUNICATIONS AUTHOR INDEX VOLUME 25 1984

Addy, S. W.: see Clegg, D. W., 73 Afaunov, M. D.: see Babchinitser, T. M., 229 Ahmad, Munir M. and Feast, W. James: The synthesis and properties of poly(1,7-7H-heptafluoromethylenecyclo-

hexenylene), a fluorinated conjugated polymer, 231
Alberda van Ekenstein, G. O. R., and Tan, Y. Y.: The influence of temperature on the

template polymerization of methacrylic acid in the presence of poly(vinyl-

pyrrolidone). A d.s.c. investigation, 105

Allen, Norman S., Kotecha, Jitendra, Gardette, Jean-Luc and Lemaire, Jacques: Thermal and photochemical behaviour of structurally related hindered piperidine light stabilizers in polyolefins, 235

Al-Malaika, S., Kok, L. and Scott, G.: Mechanisms of antioxidant action: the effect of nitroxyl-substituted xanthates in the stabilization of polypropylene, 233

Ando, D. J.: see Rughooputh, S. D. D. V., 242

Ando, Tadanao: see Kataoka, Sciichi, 24 Angeloni, Annino Sante, Ferruti, Paolo and Laus, Michele: The Mannich bases in polymer synthesis: 7. Poly (N-amino methylenamides) by polycondesation reaction of bis Mannich bases of dicarboxyamides with bis secondary amines, 119

Angeloni, Annino Sante: see Laus, Michele, 281

Anwaruddin, Q.: see Kasinithi, K., 179 Anzai, Jun-ichi,; Susuki, Yasuhiro,; Ueno, Akihiko,; and Osa, Tetsuo: Cation transport through liquid membranes mediated by photoreactive crown ethers, 254

Arakawa, Tatsumi: see Ikeda, Yukhiro, 79 Avramova, N. and Fakirov, S.: The βstructure of nylon-6 determined by reflection high energy electron diffraction, 27

Babchinitser, T. M., Genin, Ya. V.,
Korigodsky, A. R., Afaunov, M. D.,
Kutepov, D. F. and Korshak, V. V.:
Structure of poly(triazine urethane)polybutadiene block copolymers, 229
Banerjee, S.: see Ghosh, A. K., 152
Bansod, V. P.: see Gupta, M. C., 334
Bao, Jingsheng: see Chu, Benjamin, 211
Beckwith, Paul L. M., Fornasiero, Daniel,
Horr, Tom, Rye, Kerry-Ann and
Kurucsev, Thomas: Polymer heat engines:
1. Study of poly(vinylamine) and some of
its derivatives as potential working
substances in heat engines, 18

Beevers, M. S. and Mumby, S. J.: Dielectric and Kerr effect studies on stereoregular poly(N-vinylcarbazole), 173

Bekturov, E. A., Kudaibergenov, S. E., Kanapyanova, G. S. and Kurmanbaeva, A. A.: Complexation of poly(*N*-vinylpyrrolidone) and *N*-vinylpyrrolidone copolymers with cupric(II) ions in aqueous solution, 220

Belfkira, A.: see Monthéard, J. P., 337 Bevington, J. C., Breuer, S. W., and Huckerby, T. N.: N. m. r. study of endgroups in polymers and copolymers of methyl methacrylate and styrene, prepared using 2-cyano-2-propylazoformamide as initiator, 260 Bhattacharya, Swapan K.: Fracture toughness of carbon/black/acrylic composite, 10

Bilen, C. S.: see Harrison, N., 15 Binder, K.: see Ewen, B., 133

Birley, Arthur W.: see Ng, Pek Choo, 250 Biswas, Mukul and Uryu, Toshiyuki: A note on the use of Zn(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>/CoCl<sub>2</sub> pyridine as a catalyst for the stereospecific

polymerization of N-vinylcarbazole, 286 Bloor, D.: see Rughooputh, S. D. D. V., 242 Bonner, P.: see Sherrington, D. C., 71 Boots, H. M. J.: see Kloosterboer, J. G., 354

Bootsma, Jan P. C., Challa, Ger, and Muller, Franz: Polymer-bound flavins: 4. Application of flavin-containing polyelectrolyte adsorbed on macroporous silica beads in a reactive column, 342

Borsig, E.: see Hlouskova, Z., 112 Bott, D. C.: see White, D., 98

Breuer, S. W.: see Bevington, J. C., 260 Burton, R. H., Day, T. M. and Folkes, M. J.: Localized flow-induced morphological features in fibre reinforced thermoplastics, 261

Busfield, W. K.: see Woods, D. W., 298

Camps, M.: see Mountheard, J. P., 337
Capiati, Numa J.: see Picon, Pedro R., 36
Castro, J. M., Macosko, C. W. and Parry, S. J.: Viscosity changes during urethane polymerization with phase separation, 82
Challa, Ger: see Bootsma, Jan P. C., 342
Chen, Y. C., Ni., F. L., Shiramatsu, T., and Tzeng, J. S.: Electrical properties and stability of HCl-doped polyacetylene, 315
Cheng, H. N.: Characterization of 1-octene copolymers by <sup>13</sup>C n. m. r., 99
Chu, Benjamin, Ying, Qicong, Wu, Chi,

Chu, Benjamin, Ying, Qicong, Wu, Chi, Ford, James R., Dhadwal, Harbans, Qian, Renyuan, Bao, Jingsheng, Zhang, Jiyu and Xu, Chaochou: Laser light scattering characterization of rod like polymers in corrosive solvents: Kevlar in concentrated sulphuric acid, 211

Chujo, Yoshiki,; Kobayashi, Hisaaki and Yamashita, Yuya: Synthesis of polyamide graft copolymers using poly(2hydroxyethyl methacrylate) macromonomers, 278

Clark, D. T., Munro, H. S., Finocchiaro, P., Libertini, E. and Recca, A.: Surface aspects of metal complexed polymeric Schiff bases as studied by means of e.s.c.a., 5

Clark, D. T.: see Finocchiaro, P., 275 Clarson, S. J.: see Garrido, L., 218 Clegg, D. W., Addy, S. E., Collyer, A. A., Jones, I. K. and Webb, S.: Determination of the physical stress relaxation response of poly(dimethylsiloxane) (PDMS) and

Bitron E60C elastomers from dynamic mechanical measurements, 73 Collyer, A. A.: see Clegg, D. W., 73

Cook, Robert: A simple kinetic approach to fibre failure, 246

Costa Bizzari, Paolo, Della Casa, Carlo, Ferruti, Paolo, Ghedini, Nadia, Pilati, Francesco and Scapini, Giancarlo: The Mannich bases in polymer synthesis: 6. Sulphur-containing polymers by exchange reaction between 2,6bis(dimethylaminomethyl)-4-methylphenol

and dithiols, 115

Cowie, J. M. G. and Ferguson, R.: Calculations to substantiate possible origins of some low temperature relaxation processes in comb branch polymers with pendant cycloalkyl rings, 66

Crist, B., Graessley, W. W. and Wignall, G. D.: Response to 'Comments on Crist et al.'s paper on chain dimensions of crystallizable polymers, an alternative interpretation of the experimental data', 136

Cudby, M. E. A., Packer, K. J. and Hendra, P. J.: Proton n. m. r. spin-lattice relaxation in the rotating frame and the thickness of the crystalline lamellae in some polyethylenes, 303

Darlington, Michael W.: see Hutley, Trevor J., 226

Das, C. K.: see Ghosh, A. K., 152 Day, T. M.: see Burton, R. H., 361

De, Prajna P.: see Pal, Pranab K., 49 de Jong, P. J.: see Roerdink, E., 194 Della Casa, Carlo: see Costa Bizzari, Paolo, 115

Dhadwal, Harbans: see Chu, Benjamin, 211 Diaz, F. R.: see Tagle, L. H., 223 Doi, Y.: see Soga, K., 171 Domard, A. and Rinaudo M.: Gel

permeation chromatography of cationic polymer on cationic porous silica gels, 55 Dortant, G. C. M.: see Kloosterboer, J. G., 322

Erman, B. and Flory, P. J.: The equation-ofstate theory of mixtures and the polymer solvent interaction parameter, 132

Ewen, B., Stuhn, B., Binder, K., Richter, D., and Hayter, J. B.: Hydrodynamic interactions and the dynamics of polymer solutions. 133

Fairgrieve, Stuart P. and MacCallum, James R.: Photostabilization by hindered amines: The role of transition metal complexation, 44

Fakirov, S.: see Avramova, N., 27 Farraye, E. A.: see Kambour, R. P., 357 Fawcett, Allan H., Mulemwa, Jane N., and Tan, C. E.: Copolymers of acrylonitrile with furan, methyl furan and dimethyl furan, 300

Feast, W. James: see Ahmad, Munir M., 231 Ferguson, R.: see Cowie, J. M. G., 66 Ferruti, Paolo: see Bizzari, Paolo Costa, 115 Ferruti, Paolo: see Angeloni, Annino Sante,

Ferruti, Paolo: see Laus, Michele, 281 Finocchiaro, P.: see Clark, D. T., 5 Finocchiaro, P., Libertini, E., Recca, A., Munro, H. S., and Clark, D. T.: Surface aspects of the metal selectivity in polymeric Schiff bases as studied by e.s.c.a., 275

Flory, P. J.: see Erman, B., 132 Flory, P. J.: see Vacatello, M., 258 Folkes, M. J.: see Burton, R. H., 361 Ford, James R.: see Chu, Benjamin, 211 Fornasiero, Daniel: see Beckwith, Paul L. M., 18

Fortunato, B.: see Pilati, F., 190 Francois, J.: see Truong, D. N., 208 Furukawa, Tohru: see Uragami, Tadashi, 30

- Gadd, F. K.: Regenerated cellulose membranes from solutions in aqueous copper(II)/1,3-diaminopropane and the dependence of physical properties on regenerating conditions, 88
- Galin, J. C.: see Truong, D. N., 208 Gardette, Jean-Luc: see Allen, Norman S., 235
- Gardette, Jean-Luc and Phillips, David: Fluorescence polarization in polystyrene, 366
- Garrido, L., Mark, J. E., Clarson, S, J., and Semlyen, J. A.: Studies of cyclic and linear poly(dimethylsiloxanes): 15. Diffusion coefficients from network sorption measurements, 218
- Garrido, L.: see Tang, M. Y., 347 Genin, Ya. V.: see Babchinitser, T. M., 229 George, Adrian V.: see Isaacs, Neil S., 268 Gerrard, D. L., Maddams, W. F. and
- Williams, K. P. J.: The Raman spectra of some branched polyethylenes, 182
- Gerrard, D. L., and Maddams, W. F.: The origin of the band at 450 nm in the ultra violet/visible adsorption spectrum of degraded poly(vinyl chloride), 185
- Ghedini, Nadia: see Bizzari, Paolo Costa, 115
- Ghosh, A. K., Das, C. K. and Bannerjee, S.: Compounding of styrene butadiene rubber with card-phenol in the presence of calcium carbonate, 152
- Gilbert, Marianne: see Ng, Pek Choo, 250 Goldenfeld, Nigel: Growth rate of polymer crystals, 47
- Gossing, R. G.: see Kloosterboer, J. G., 322 Graessley, W. W.: see Crist, B., 136 Grubb, D. T.: see Morel, D. E., 68
- Guenet, J. M.: see Sadler, D. M., 290 Gupta, M. C., Srirao, B. S., Kanphade, B. P. and Bansod, V. P.: Radiation effects on
- high-impact polystyrene, 334 Guthrie, J., Otterburn, M. S., Rooney, J. M. and Tsang, C. N.: The determination of the molecular weight of poly(ethyl-2cyanoacrylate) adhesive, 318
- Guzman, J.: see San Roman, J., 373
- Hanabusa, K.: see Hirabaru, O., 284 Haq, Z. and Mingins, J.: The contact angle of water on polymer films, 269
- Harrison, N., Bilen, C. S. and Morantz, D. J.: The measurement of infra-red emission and spectral emittance of thin polymer films, 15
- Hasegawa, Taisuke: see Nogami, Takashi, 329
- Hashimoto, Toshimasa: see Inoue, Takashi, 148
- Hay, J. N., Kemmish, D. J., Langford, J. I. and Rae, A. I. M.: The structure of crystalline PEEK. 175
- Hayter, J. B.: see Ewen, B., 133 Heckmann, W.: see Ramsteiner, F., 178 Hendra, P. J.: see Cudby, M. E. A., 303
- Hirabaru, O., Nakase, T., Hanabusa, K., Shirai, H., Takemoto, K., Hojo, N.: Functional metal-porphyrazine derivatives and their polymers: 13. Secondary cells using metal phthalocyanine bound to poly(2-vinylpyridine-co-styrene) as positive electrodes, 284
- Hirooka, Masaaki: see Murase, Ichiki, 327 Hlouskova, Z., Tino, J., And Borsig, E.: Study of crosslinked i-polypropylene by spin probe methods, 112 Hojo, N.: see Hirabaru, O., 284
- Hojo, N.: see Hirabaru, O., 284 Honda, Chikako: see Kambe, Yuko, 154

- Hong, K. M. and Noolandi, J.: The effect of polydispersity on the microphase separation of a block copolymer system, 265
- Horn, A. F.: see Merrill, E. W., 144 Horr, Tom: see Beckwith, Paul L. M., 18 Huckerby, T. N.: see Bevington, J. C., 260 Hutley, Trevor J., Darlington, Michael W.: Impact strength - d. s. c. correlation in mineral-filled polypropylene, 226
- Ikeda, Yukhiro, Ozaki, Masaru, Arakawa, Tatsumi, Takahashi, Akio and Kambara, Shu: Synthesis of poly(vinylene sulphide), 79
- Imamura, Akira: see Ohsaku, Masaru, 251 Inoue, Kazuhiko: see Nogami, Takashi, 329 Inoue, Takashi,; Kobayashi, Takashi,; Hashimoto, Toshimasa,; Tanigami, Tetsuya,; and Miyasaka, Keizo: Studies on the structure of poly(vinyl chloride)/poly(acrylonitrile-co-butadiene) blends. 148
- Irvine, Peter A.: see Smith, Paul, 294
  Isaacs, Neil S. and George, Sdrian V.:
  Anionic polymerization of vinyl
  monomers under high pressure, 268
  Ishikawa, Hiroshi: see Nagura, Masanobu,
  313
- Johnson III, Joseph A., and Santiago, Jaime P.: Turbulent boundary layer treatment for reacting polymer jets, 34
  Jones, I. K.: see Clegg, D. W., 73
- Kaim, Andrezej and Kolodziejski, Waclaw: Radicals in the polymerization system of valeraldehyde and methyl acrylate, 308
- Kajiwara, M. and Shiomoto, K.: The solution polymerization reaction of hexachlorocyclotriphosphazene by sulphur compounds, 93
- Kamata, Kaoru: see Ochiai, Hiroshi, 158 Kambara, Shu: see Ideda, Yukhiro, 79 Kambe, Yuko, and Honda, Chikako: Diffusion of poly(ethylene oxide) in water, 154
- Kambour, R. P.: Maximum strains for craze initiation in ductile glassy polymers, 130 Kambour, R. P. and Farraye, E. A.: Crazing beneath notches in ductile glassy polymers: A materials correlation, 357
- Kanapyanova, G. S.: see Bekturov, E. A., 220
- Kanphade, B. P.: see Gupta, M. C., 334
  Karakelle, M.: see Phillips, P. J., 204
  Karger-Kocsis, J., Kiss, L. and Kuleznev, V.
  N.: Optical microscopic study on the phase separation of impact-modified PP blends and PP block copolymers, 122
- Kasinithi, K., Tajuddin, I., and Anwaruddin, Q.: Polymerization of acrylonitrile initiated by peroxydisulphate-thioglycollic acid redox system, 179
- Kataoka, Seiichi and Ando, Tadanao: Induced optical activity of acridine orange bonded to optically active poly(methacrylic acid) by radical polymerization in the presence of chitosan, 24
- Keller, A.: see Sadler, D. M., 290
  Keller, Teddy M. and Price, Thomas R.:
  Synthesis of polysulphone phthalonitriles,
  42
- Kemmish, D. J.: see Hay, J. N., 175 Kiss, L.: see Karger-Kocsis, J., 122

- Kloosterboer, J. G., van de Hei, G. M. M., Gossink, R. G. and Dortant, G. C. M.: The effects of volume relaxation and thermal mobilization of trapped radicals on the final conversion of photopolymerized diacrylates, 322
- Kloosterboer, J. G., van de Hei, G. M. M. and Boots, H. M. J.: Inhomogeneity during the photopolymerization of diacrylates: d. s. c. experiments and percolation theory, 354
- Kobayashi, Hisaaki: see Chujo, Yoshiki, 278 Kobayashi, Takashi: see Inoue, Takashi, 148 Koeda, Susumu: see Kondo, Shingo, 59
- Kojima, M. and Magill, J. H.: Hexatic phase in poly(bistrifuoroethoxyphosphazene), (PBFP), thin films, 273
- Kok, L.: see Al-Malaika, S., 233 Kolodzichski, Waclaw: see Kaim, Andrzej,
- Kondo, Shingo, Naoki, Motosuke, Tanioka, Toshiya and Koeda, Susumu: Hypersonic dispersion properties in networks of an end-linked dimethylsiloxane oligomer, 59
- Korigodsky, A. R.: see Babchinitser, T. M., 229
- Korshak, V. V.: see Babchinitser, T. M., 229 Kotecha, Jitendra: see Allen, Norman S., 235
- Kudaibergenov, S. E.: see Bekturov, E. A., 220
- Kuleznev, V. N.: see Karger-Kocsis, J., 122 Kutepov, D. F.: see Babchinitser, T. M., 229 Kurmanbaeva, A. A.: see Bekturov, E. A., 220
- Kurucsev, Thomas: see Beckwith, Paul L. M., 18
- Landry, Michael R.: see Nemoto, Norio, 141 Langford, J. I.: see Hay, J. N., 175 Laus, Michele: see Angeloni, Annino Sante, 119
- Laus, Michele,; Angeloni, Annino Sante,; Tramontini, Maurilio and Ferruti, Paolo: The Mannich bases in polymer synthesis: 9. Sulphur containing polymers polycondensation reaction of bis Mannich bases of dicarboxyamides with 1,3dimercaptobenzene, 281
- Lavia, M. A.: see Madruga, E. L., 309 Leising, G.: Single-fibre poly(acetylene), 201 Lemaire, Jacques: see Allen, Norman S., 235 Libertini, E.: see Clark, D. T., 5
- Libertini, E.: see Finocchiaro, P., 275 Lindsell, W. E., Service, D. M. and Soutar, I.: Anionic polymerization of acenaphtylene: Identification of impurity species formed as by-products, 108
- Liptak, P., Rado, R., Mlejnek, O. and Lacuska, M.: Reactions of unsaturated trialkoxysilane in a hydrocarbon medium in the presence of aluminium hydroxide, 126
- Lloyd, Douglas R.: see Tseng, Hsiao-Show, 262
- Lucas, J. M.: see Monthéard, J. P., 337 Lucuska, M.: see Liptak, P., 126
- MacCallum, James R.: see Fairgrieve, Stuart P., 44
- Macosko, C. W.: see Castro, J. M., 82 Maddams, W. F.: see Gerrard, D. L., 182
- Maddams, W. F.: see Gerrard, D. L., 185 Madruga, E. L., San Roman, J., and Lavia
- M. A.: Radical copolymerization of acrylic monomers: 7. High conversion polymerization of methyl methacrylate in

the presence of low concentrations of methyl α-benzylacrylate, 309 Madruga, E. L.: see San Roman, J., 373 Magill, J. H.: see Kojima, M., 273 Manaresi, P.: see Pilati, F., 187 Maret, G.: see Weill, G., 147 Mark, J. E.: see Garrido, L., 218 Mark, J. E.: see Tang, M. Y., 347 Martin, James E.: Effect of polydispersity on scattering functions of linear polymers at intermediate momentum transfer, 350 Masi, P., Nicodemo, L., Migliaresi, C., and Nicolais, L.: Water uptake and volumetric changes in poly(methylmethacrylate), 331 Masoni, S.: see Pilati, F., 190 Matheson, Robert R., Jr.: see Smith, Paul, Matsuda, Minoru: see Miyasita, Tokuji, 138 McCrum, N. G.: Sequential relaxation as the mechanism of physical ageing in amorphous polymers, 2 McCrum, N. G.: The determination of  $d\ln r_0^2/dT$  by the method of temperature induced creep, 213 McGarvey, Bruce R.: see Schlick, Schulamith, 369 Merrill, E. W. and Horn, A. F.: Scission of macromolecules in dilute solution: Extensional and turbulent flows, 144 Migliaresi, C.: see Masi, P., 331 Mihailov, M.: see Terlemezyan, L., 80

Mikawa, Hiroshi: see Nogami, Takashi, 329 Mingins, J.: see Haq, Z., 269 Miyasaka, Keizo: see Inoue, Takashi, 148 Miyashita, Tokuji and matsuda, Minoru: Emission decay kinetics of photoexcited Ru(phen)<sup>2</sup>, in poly(vinylsulphate) solution, 138

Mijovic, Jovan: On processing property

relationships in graphite/epoxy

composites, 271

Mlejnek, O.: see Liptak, P., 126 Moad, Graeme, Serelis. Algirdas K., Solomon, David H. and Spurling, Thomas H.: On the relative importance of crossand homotermination in radical copolymerization, 240

Monthéard, J. P., Camps, M., Belfkira, A., Steffan G., and Lucas, J. M.: Synthesis and polymerization of acylated α-acetoxy-4-hydroxy styrenes, 337

Morantz, D. J.: see Harrison, N., 15 Morel, D. E. and Grubb, D. T.: Staining of melt crystallized isotactic polystyrene by RuO<sub>4</sub>, 68

Mukherjee, P. S.: Structure-property relations in cellulose I fibres: 1. Dielectric properties, 382

Mulemwa, Jane N.: see Fawcett, Allan H., 300

Muller, Franz: see Bootsma, Jan P. C., 342 Mumby, S. J.: see Beevers, M. S., 173 Munari, A.: see Pilati, F., 187 Munro, H. S.: see Clark, D. T., 5 Munro, H. S.: see Finocchiaro, P., 275 Murakami, Ichiro: see Ochiai, Hiroshi, 158 Murase, Ichiki; Ohnishi, Toshihiro:

Noguchi, Takanobu; and Hirooka, Masaaki: Highly conducting poly(pphenylene vinylene) prepared from a sulphonium salt, 327

Nagura, Masanobu, Nagura, Masahiro and Iskikawa, Hiroshi: State of water in highly elastic poly (vinyl alcohol) hydrogels prepared by repeated freezing and melting, 313

Nagura, Masahiro: see Nagura, Masanobu,

Naoki, Motosuke: see Kondo, Shingo, 59

Nakase, T.: see Hirabaru, O., 284
Nemoto, Norio, Landry, Michael R., Noh,
Icksam and Yu, Hyuk: Temperature
dependence of the self diffusion coefficient
of polyisoprene in the bulk state, 141
Ng, Pek Choo,: Yeh, Po-Len,; Gilbert,
Marianne, and Birley, Arthur W.: The
determination of ethylene units in ethylene

propylene systems, 250 Ni, F. L.: see Chen, Y. C., 315 Nicodemo, L.: see Masi, P., 331 Nicolais, L.: see Masi, P., 331

Nogami, Takashi: Hasegawa, Taisuke; Inoue, Kazuhiko and Mikawa, Hiroshi: Syntheses of aliphatic tellurium polymers: Poly(polymethylene telluride)s and poly(polymethylene ditelluride)s, 329 Noguchi, Takanobu: see Murase, Ichiki, 327

Noh, Icksam: see Nemoto, Norio, 141 Noolandi, J.: see Hong, K. M., 265 Nystrom, B.: see Roots, J., 166

Ochiai, Hiroshi, Kamata, Kaoru, and Murakami, Ichiro: Refractive index increments of poly(methylmethacrylate) at 633nm, 158 Odijk, T.: see Weill, G., 147

Ohnishi, R.: see Soga, K., 171
Ohnishi, Toshihiro: see Murase, Ichiki, 327
Ohsaku, Masaru, and Imamura, Akira:
Conformational analyses of
poly(methylene disulphide), 251
Ohtake, M.: see Soga, K., 171
Osa, Tetsuo: see Anzai, Jun-ichi, 254
Otterburn, M. S.: see Guthrie, J., 318

Ozaki, Masaru: see Tdcda, Yukhiro, 79

Packer, K. J.: see Cudby, M. E. A., 303
Pai Verneker, V. R. and Shaha, B.: Lithium and sodium initiated transition polymerization of acrylamide, 363
Pal, Pranab K. and De, Prajna P.: Titanate

rai, Franao K. and De, Frajna P.: Intanate coupling agent [Isopropyl tri(dioctylpyrophosphato) titanate] as a retarder in natural rubber vulcanization, 49

Parry, S. J.: see Castro, J. M., 82 Peacock, A. J.: Computer aided calculation of crosslinking efficiency, 169

Peguy, A. and St John Manley, R.: Ultradrawing of high molecular weight polypropylene, 39

Phillips, D.: see Rughooputh, S. D. D. V., 242

Phillips, David: see Gardette, Jean-Luc, 366 Phillips, P. J., Karakelle, M., and Vatansever, A.: Evidence for the influence

of XLPE morphology on treeing probability, 204

Pham. Q. T.: see Truong, D. N., 208
Picon, Pedro R., Valles, Enrique M., and
Capiati, Numa J.: Viscoelastic properties
of poly(vinyl chloride): influence of
crystallinity, 36

Pilati, Francesco: see Bizzari, Paolo Costa, 115

Pilati, F., Munari, A., and Manaresi, P.: A reappraisal of the catalytic effects of tin(IV) compounds on transesterification and esterification reactions, 187

Pilati, F., Masoni, S., and Fortunato, B.: Thermal degradation of polyesteramide 6NT6, 190

Price, Thomas, R.: see Keller, Teddy M., 42

Qian, Renyuan: see Chu, Benjamin, 211

- - -- --

Rado, R.: see Liptak, P., 126
Rac, A. I. M.: see Hay, J. N., 175
Ramsteiner, F. and Heckmann, W.:
Deformation behaviour of styrene
butadiene block copolymers, 178
Recca, A.: see Clark, D. T., 5
Recca, A.: see Finocchiaro, P., 275
Richel, C.: see Wu, W., 76
Richter, D.: see Ewen, B., 133

Rinaudo, M.: see Domard, A., 55 Roerdink, E., de Jong, P. J. and Warnier, J.: Study on the polycondensation kinetics of nylon-4.6 salt, 194

Rogal, Eugeniusz: see Wejchan-Judek, Maria, 53

Rooney, J. M.: see Guthrie, J., 318 Roots, J., and Nystrom, B.: Effect of pressure on intramolecular excimer formation of polystyrene in solution, 166

Rughooputh, S. D. D. V., Phillips, D., Bloor, D., and Ando, D. J.: Chromism of a polydiacetylene with weakly interacting sidegroups, 242

Rye, Kerry-Ann: see Beckwith, Paul L. M.,

Sadler, David M.: The importance of twin morphology for theories of crystallization of polymers, 196

Sadler, D. M., Spells, S. J., Keller, A., and Guenet, J. M.: Wide-angle neutron scattering from isotactic polystyrene: the fold arrangement in solution grown crystals, 290

St. John Manley, R.: see Peguy, A., 39 Santiago, Jamie P.: see Johnson III, Joseph A., 34

San Roman, J.: see Madruga, E. L., 309
San Roman, J., Madruga, E. L. and
Guzman, J.: Glass transition temperatures
of acrylic polymers and copolymers
containing phenyl side groups, 373
Scanini, Giancarlo: see Bizzari, Peolo Costa

Scapini, Giancarlo: see Bizzari, Paolo Costa, 115

Schlick, Shulamith and McGarvey, Bruce R.: Study of dynamics in poly(p-phenylene sulphide) by pulsed <sup>1</sup>H nuclear magnetic resonance, 369

Schulz, G. and Worsfold, D. J.: The heterogeneous hydrogenation of polyisoprene, 206

Scott, G.: see Al-Malaika, S., 233 Semlyen, J. A.: see Garrido, L., 218 Serelis, Algirdas, K.: see Moad, Graeme, 240 Service, D. M.: see Lindsell, W. E., 108 Setua, D. K.: Temperature dependence of

the tear strength of short silk fibre reinforced rubber composites, 345 Shah, B.: see Pai Verneker, V. R., 363

Sherrington, D. C. and Bonner, P.: Use of polymer derivatzation in gel permeation chromatography, 71

Shindo, Yohji and Takigaura, Ryosei: An improved highly sensitive instrument for measuring optical birefringence, 378

Shiomoto, K.: see Kajiwara, M., 93 Shirai, H.: see Hirabaru, O., 284 Shiramatsu, T.: see Chen, Y. C., 315

Smith, Paul, Matheson, Robert R., Jr., and Irvine, Peter A.: Extension ratios of polymer molecules, 294

Soga, K., Ohtake, M., Ohnishi, R., and Doi, Y.: Copolymerization of ethylene and propylene with the catalytic system of TiCl<sub>4</sub> and MgR<sub>2</sub>, 171

Solomon, David H.: see Moad, Graeme, 240 Soutar, I.: see Lindsell, W. E., 108

Spells, Stephen J.: Fourier self-deconvolution of mixed crystal polyethylene infra-red spectra, 162

Spells, S. J.: see Sadler, D. M., 290 Spurling, Thomas H.: see Moad, Graeme,

Srirao, B. S.: see Gupta, M. C., 334 Steffan, G.: see Monthéard, J. P., 337 Stuhn, B.: see Ewen, B., 133 Sugihara, Mizuho: see Uragami, Tadashi, 30 Suzuki, Yasuhiro: see Anzai, Jun-ichi, 254

Tagle, L. H., Diaz, F. R. and Bega, R. J.: Synthesis and characterization of poly(amide-imides) from 3,4-dicarboxy-4'chloroformyl-biphenyl anhydride with aliphatic diamines, 223

Tajuddin, I.: see Kasinithi, K., 179
Takahashi, Akio: see Ikeda, Yukhiro, 79
Takemoto, K.: see Hirabaru, O., 284
Takigaura, Ryosei: see Shindo, Yohji, 378
Tan, C. E.: see Fawcett, Allan, H., 300
Tan, Y. Y.: see Alberda van Ekenstein, G.
O. R., 105

Tang, M. Y., Garrido, L., and Mark, J. E.: The effect of crosslink functionality on the elastomeric properties of bidomal networks, 347

Tanigami, Tetsuya: see Inoue, Takashi, 148 Tanioka, Toshiya: see Kondo, Shingo, 59 Terlemezyan, L. and Mihailov, M.: Conformational changes of trioxane dioxolane copolymer induced by pressure and mechanical treatment, 80

Tinker, A. J.: Preparation of polypropylene/natural rubber blends having high impact strength at low temperatures, 325

Tino, J.: see Hlouskova, Z., 112 Tramontini, Maurilio: see Laus, Michele, 281 Truong, D. N., Galin, J. C., Francois, J., and Pham, Q. T.: Stability of sodium acrylate-acrylamide copolymers in aqueous solutions in presence of Ca<sup>2+</sup> influence of the microstructure, 208

Tsang, C. N.: see Guthrie, J., 318
Tseng, Hsiao-Show, Lloyd, Douglas R., and
Ward, T. C.: Correlation of organic
solubility in poly(vinyl acetate), 262
Tzeng, J. S.: see Chen, Y. C., 315

Ueno, Akihiko: see Anzai, Jun-ichi, 254
Uragami, Tadashi, Furukawa, Tohru and
Sugihara, Mizuho: Studies on synthesis
and permeabilities of special polymer
membranes: 57. Permeability of solute
through polymer membranes and state of
water in their membranes, 30

Uryu, Toshiyuki: see Biswas, Mukul, 286

Vacatello, M. and Flory, P. J.: Helical conformations of isotactic poly(methyl methacrylate). Energies computed with bond angle relaxation, 258

Valles, Enrique M.: see Picon, Pedro R., 36 van de Hei, G. M. M.: see Kloosterboer, J. G., 322

van de Hei, G. M. M.: see Kloosterboer, J. G., 354

Vatansever, A.: see Phillips, P. J., 204 Vega, R. J.: see Tagle, L. H., 223

Wakelyn, N. T.: On the structure of poly(etheretherketone) (PEEK), 306 Ward, I. M.: see Woods, D. W., 298 Ward, T. C.: see Tseng, Hsiao-Show, 262 Warnier, J.: see Roerdink, E., 194 Webb, S.: see Clegg, D. W., 73 Weill, G., Maret, G. and Odijk, T.: On the molecular weight dependence of the magnetic birefringence of poly(styrene sulphonate) at low ionic strength, 147

Wejchan-Judek, Maria and Rogal, Eugeniusz: The influence of a catalyst on the synthesis of poly(p-phenylene sulphide) from thiophenol and thionyl chloride, 53

White, D. and Bott, D. C.: The production of oriented, crystalline poly(acetylene) by the Durham route, 98

Wignall, G. D.: see Crist, B., 136
Williams, K. P. J.: see Gerrard, D. L., 182
Woods, D. W., Busfield, W. K., and Ward,
I. M.: Improved mechanical behaviour in
ultra high modulus polyethylenes by
controlled crosslinking, 298
Worsfold, D. J.: see Schulz, G., 206

Wu, Chi: see Chu, Benjamin, 211Wu, W., Zachmann, H. G. and Rickel, C.: The role of melt-recrystallization mechanism in deformation of crystalline

Xu, Chaochou: see Chu, Benjamin, 211

polymers, 76

Yamashita, Yuya: see Chujo, Yoshiki, 278 Yeh, Po-Len: see Ng, Pek Choo, 250 Ying, Qicong: see Chu, Benjamin, 211 Yoda, Osamu: The radiation effect on noncrystalline poly(aryl-ether-ketone) as revealed by X-ray diffraction and thermal analysis, 238

Yu, Hyuk: see Nemoto, Norio, 141

Zachmann, H. G.: see Wu, W., 76
Zhang, Jiyu: see Chu, Benjamin, 211
Zhikuan, Chai: The interaction parameter χ<sup>o</sup> and its dependence, 21

# POLYMER COMMUNICATIONS CLASSIFIED CONTENTS VOLUME 25 1984

Acenaphthylene: Anionic polymerization of \_\_\_\_\_\_: Identification of impiurity species formed as by-products, 108

α-Acetoxy-4-hydroxy styrenes: Synthesis and polymerization of acylated — — , 337

Acrylamide: Lithium and sodium initiated transition polymerization of — —, 363

Acrylic monomers: Radical copolymerization of — — 7. High conversion polymerization of methyl methacrylate in the presence of low concentrations of methyl α-benzylacrylate, 309

Acrylonitrile: Polymerization of --- - initiated by peroxydisulphate-thioglycollic acid redox system, 179

Acrylonitrile: Anionic polymerization of vinyl monomers under high pressure, 268

Acrylonitrile: Copolymers of with furan, methyl furan and dimethyl furan,

Activation parameters: The influence of temperature on the template polymerization of methacrylic acid in the presence of poly(vinylpyrrolidone). A d.s.c. investigation, 105

Adjacent re-entry: Fourier self-deconvolution of mixed crystal polyethylene infra-red spectra, 162

Ageing: Compounding of styrene-butadiene rubber with card-phenol in the presence of calcium carbonate, 152

Aggregation: Chromism of a polydiacetylene with weakly interacting sidegroups, 242

Aluminium hydroxide: Reactions of unsaturated trialkoxysilane in a hydrocarbon medium in the presence of \_\_\_\_\_\_\_\_, 126

Analysis: The determination of ethylene units in ethylene-propylene systems, 250

Antioxidant action: Mechanisms of the effect of nitroxyl-substituted xanthates in the stabilization of polypropylene, 233

Beta relaxation: Calculations to substantiate possible origins of some low temperature relaxation processes in comb branch polymers with pendant cycloalkyl rings, 66

Birefringence: An improved highly sensitive instrument for measuring optical ---, 378

properties in networks of an end-linked dimethylsiloxane oligomer, 59 Butadiene: Compounding of styrenerubber with card-phenol in

the presence of calcium carbonate, 152

Butadiene: Deformation behaviour of styrene

block copolymers, 178

- Capacitance bridge: Structure-property relations in cellulose 1 fibres: 1. Dielectric properties, 382
- Carbon black filler: Fracture toughness of carbon black/acrylic composite, 10
- Catalysis: The deterogeneous hydrogenation of polyisoprene, 206
- Catalytic system: Copolymerization of ethylene and propylene with the catalytic system of TiCl<sub>4</sub> and MgR<sub>2</sub>, 171
- Catalyst: The influence of a on the synthesis of poly(p-phenylene sulphide) from thiophenol and thionyl chloride, 53
- Cellulose 1 fibres: Structure-property relations in ——: 1. Dielectric properties, 382
- Cellulose membranes: Regenerated from solutions in aqueous copper(II)/1.3-diaminopropane and the dependence of physical properties on regenerating conditions, 88
- Chain dimensions: Response to 'Comments on Crist et al.'s paper on of crystallizable polymers, an alternative interpretation of the experimental data', 136
- Characterization: Surface aspects of metal complexed polymeric Schiff bases as studied by means of e.s.c.a., 5
- Characterization: The influence of a catalyst on the synthesis of poly(p-phenylene sulphide) from thiophenol and thionyl chloride, 53
- Characterization: Synthesis of poly(vinylene sulphide), 79
- Characterization: of 1-octene copolymers by <sup>13</sup>C n.m.r., 99
- Characterization: Laser light scattering
  —— of rod-like polymers in corrosive solvents: Kevlar in concentrated sulphuric acid, 211
- Characterization: Synthesis and — of poly(amide-imides) from 3,4-dicarboxy-4'-chloroformylbiphenyl anhydride with aliphatic diamines, 223
- Characterization: Surface aspects of the metal selectivity in polymeric Schiff bases as studied by e.s.c.a., 275
- Characterization: Synthesis and polymerization of acylated α-acetoxy-4-hydroxy styrenes, 337
- Charge transfer complex: The origin of the band at 450 nm in the ultra violet/visible absorption spectrum of degraded poly(vinyl chloride), 185
- Chemical potentials: The equation-of-state theory of mixtures and the polymer-solvent interaction parameter, 132
- Chitosan: Induced optical activity of acridine orange bonded to optically active poly(methacrylic acid) by radical polymerization in the presence of chitosan, 24
- Chitosan: Gel permeation chromatography of cationic polymer on cationic porous silica gels, 55
- Chromism: of polydiacetylene with weakly interacting sidegroups, 242
- Comb branch polymers: Calculations to substantiate possible origins of some low temperature relaxation processes in with pendant cycloakyl rings, 66

- Complex viscosity: Viscoelastic properties of polyvinylchloride: influence of crystallinity, 36
- Complexation: Photostabilization by hindered amines: The role of transition metal
- Complexation: of poly(N-vinylpyrrolidone) and N-vinylpyrrolidone copolymers with cupric(III)ions in aqueous solution, 220

- Compounding: of styrene-butadiene rubber with card-phenol in the presence of calcium carbonate, 152
- Computer aided calculation: of crosslinking efficiency, 169
- Condensation: Synthesis of poly(sulphone phthalonitrile)s, 42
- Conduction: Synthesis of poly(vinylene sulphide), 79
- Conformational analyses: of poly(methylene disulphide), 251
- Conformational changes: of trioxanedioxolane copolymer induced by pressure and mechanical treatment, 80
- Conformations: Helical of isotactic poly(methyl methacrylate). Energies computed with bond angle relaxation, 258
- Conjugation: Synthesis of poly(vinylene sulphide), 79
- Contact angle: The of water on polymer films, 269
- Conversion: The effects of volume relaxation and thermal mobilization of trapped radicals on the final of photopolymerized diacrylates, 322
- Copolymer: Conformational changes of trioxane-dioxolane induced by pressure and mechanical treatment, 80
- Copolymer: The determination of ethylene units in ethylene-propylene systems, 250
- Copolymer: The effect of polydispersity on the microphase separation of a block system, 265
- Copolymers: Characterization of 1-octene —— by <sup>13</sup>C n.m.r., 99
- Copolymers: Deformation behaviour of styrene butadiene block -- -, 178

- Copolymers: Structure of poly(triazine urethane)-polybutadiene block
- Copolymers: N.m.r. study of end-groups in polymers and — of methyl methacrylate and styrene, prepared using 2-cyano-2-propylazoformamide as initiator, 260
- Copolymers: Synthesis of polyamide graft
  using poly(2-hydroxyethyl methacrylate) macromonomers, 278
- Copolymers: of acrylonitrile with furan, methyl furan and dimethyl furan, 300

- Copolymerization: of ethylene and propylene with the catalytic system of TiCl<sub>4</sub> and MgR<sub>2</sub>, 171
- Copolymerization: On the relative importance of cross- and homo-termination in radical
- Copolymerization: Copolymers of acrylonitrile with furan, methyl furan and dimethyl furan, 300
- Copolymerization: Radical -- of acrylic monomers: 7. High conversion polymerization of methyl methacrylate in the presence of low concentrations of methyl α-benzylacrylate, 309

- Cation transport: through liquid membranes mediated by photoreactive crown ethers, 254
- Craze initiation: Maximum strains for — in ductile glassy polymers,
- Crazes: Deformation behaviour of styrene butadiene block copolymers, 178
- Crazing: beneath notches in ductile glassy polymers: A materials correlation, 357
- Creep: Sequential relaxation as the mechanism of physical ageing in amorphous polymers, 2
  Creep: The determination of dln x<sup>-2</sup> dThy the

- Crosslinking: Polymer heat engines: 1. Study of poly(vinylamine) and some of its derivatives as potential working substances in heat engines, 18
- Crosslinking: Study of crosslinked ipolypropylene by spin probe methods, 112 Crosslinking: Computer aided calculation of efficiency, 169
- Crosslinking: Evidence for the influence of XLPE morphology on treeing probability,
- Crosslinking: Improved mechanical behaviour in ultra high modulus polyethylenes by controlled 298
- Crosslinking: Radiation effects on high-impact polystyrene, 334
- Cross-termination: On the relative importance of cross- and homo-termination in radical copolymerization, 240
- Crown ethers: Cation transport through liquid membranes mediated by photoreactive 254
- Crystal structure: The  $\beta$ -structure of nylon-6 determined by reflection high energy electron diffraction, 27
- Crystalline lammellae: Proton n.m.r. spinlattice relaxation in the rotating frame and the thickness of the — — in some polyethylenes, 303
- Crystallinity: Viscoelastic properties of poly(vinyl chloride) influence of -, 36
- Crystallinity: Study of dynamics in poly(pphenylene sulphide) by pulsed <sup>1</sup>H nuclear magnetic resonance, 369
- Crystallization: Growth rate of polymer crystals, 47

- Crystallization: Response to 'Comments on Crist et al.'s paper on chain dimensions of crystallizable polymers, an alternative interpretation of the experimental data', 136
- Crystallization: The importance of twin morphology for theories of --- -- of polymers, 196
- Crystallization: Impact strength-d.s.c. correlation in mineral-filled polypropylene, 226 Crystals: Growth rate of polymer
- Crystals: Growth rate of polymer \_\_\_\_\_\_, 47
- Crystals: Wide-angle neutron scattering from isotactic polystyrene: the fold arrangement in solution grown ————, 290
- Cycloakyl rings: Calculations to substantiate possible origins of some low temperature relaxation processes in comb branch polymers with pendant , 66
- 2-Cyano-2-propylazoformamide: N.m.r. study of end-groups in polymers and copolymers of methyl methacrylate and styrene, prepared using as initiator, 260
- Deformation: The role of melt-recrystallization mechanism in
- ——— of crystalline polymers, 76 Deformation: Crazing beneath notches in ductile glassy polymers: A materials correlation, 357
- Deformation behaviour: of styrene-butadiene block copolymers, 178
- Degradation: Scission of macromolecules in dilute solution: Extensional and turbulent flows, 144
- Degradation: Radiation effects on high-impact polystyrene, 334

- Diacrylates: Inhomogeneity during the photopolymerization of \_\_\_\_\_\_\_\_ d.s.c. experiments and percolation theory, 354
- Dicarboxyamides: The Mannich bases in polymer synthesis: 9. Sulphur containing polymers by polycondensation reaction of bis Mannich bases of with 1,3-dimercaptobenzene, 28
- Dielectric: and Kerr effect studies on stereoregular poly(N-vinylcarbazole), 173
- Differential scanning: Studies on synthesis and permeabilities of special polymer membranes: 57. Permeability of solute through polymer membranes and state of water in their membranes, 30
- Differential scanning calorimetry: The influence of temperature on the template polymerization of methacrylic acid in the presence of poly(vinylpyrrolidone). A \_\_\_\_\_\_\_ investigation, 105
- Differential scanning calorimetry: Impact strength .... correlation in mineral-filled polypropylene, 226
- Differential scanning calorimetry: The effects of volume relaxation and thermal mobilization of trapped radicals on the final conversion of photopolymerized diacrylates,
- Differential scanning calorimetry: Inhomogeneity during the photopolymerization of diacrylates experiments and percolation theory, 354
- Diffusion: of poly(ethylene oxide) in water, 154

- Diffusion coefficient: Studies on synthesis and permeabilities of special polymer membranes: 57. Permeability of solute through polymer membranes and state of water in their membranes, 30
- Diffusion coefficients: Studies of cyclic and linear poly(dimethylsiloxanes): 15.

  ———— from network sorption measurements, 218

- Disorder: Chromism of a polydiacetylene with weakly interacting sidegroups, 242
- Dispersion properties: Hypersonic
  in networks of an end-linked dimethylsiloxane oligomer, 59
- Doping: Highly conducting poly(p-phenylene vinylene) prepared from a sulphonium salt, 327
- Durham route: The production of oriented, crystalline poly(acetylene) by the \_\_\_\_\_\_\_\_, 98
- Dynamic mechanical measurements: Determination of the physical stress relaxation response of poly(dimethylsiloxane) (PDMS) and Vitron E60C elastomers from 73
- Dynamics: Hydrodynamic interactions and the of polymer solutions, 133 Dynamics: Study of in poly(p-
- Dynamics: Study of \_\_\_\_\_ in poly(p-phenylene sulphide) by pulsed <sup>1</sup>H nuclear magnetic resonance, 369
- Elastomer: The determination of dln  $r_0^{-2}/dT$  by the method of temperature induced creep, 213
- Elastomeric properties: The effect of crosslink functionality on the ----- of bi-modal networks, 347
- Electric dipole moments: Dielectric and Kerr effect studies on stereoregular poly(N-vinylcarbazole), 173
- Electrical conductivity: The synthesis and properties of poly(1,7-7H-heptafluoro-methylenecyclohexenylene), a fluorinated conjugated polymer, 231
- Electrical conductivity: Electrical properties and stability of HCl-doped polyacetylene, 315
- Electrical properties: and stability of HCl-doped polyacetylene, 315
- Electroconductivity: Highly conducting poly(p-phenylene vinylene) prepared from a sulphinium salt, 327
- Electron diffraction: The  $\beta$ -structure of nylon-6 determined by reflection high energy \_\_\_\_\_\_, 27
- Electron diffraction: Single-fibre polyacetylene \_\_\_\_\_\_\_, 201
- Electron diffraction: Hexatic phase in poly(bistrifluoroethoxyphosphazene), (PBFP), thin films, 273
- Electron diffraction crystallinity: The production of oriented, crystallinity poly(acetylene) by the Durham route, 98

- Electron microscopy: Structure of poly(triazine urethane)-polybutadiene block copolymers, 229
- Electron microscopy: Hexatic phase in poly(bistrifluoroethoxyphosphazene), (PBFP), thin films, 273
- Electron paramagnetic resonance spectroscopy: Radicals in the polymerization system of valeraldehyde and methyl-acrylate, 308
- Electron spin resonance: Study of crosslinked i-polypropylene by spin probe methods, 112 Electron transfer: Emission decay kinetics of photoexcited Ru(phen)<sub>3</sub><sup>2+</sup> in poly(vinyl-sulphate) solution, 138
- Emission decay: kinetics of photoexcited Ru(phen)<sub>3</sub><sup>2+</sup> in poly(vinylsulphate) solution, 138
- Emission quenching: Emission decay kinetics of photoexcited Ru(phen)<sub>3</sub><sup>2+</sup> in poly(vinyl-sulphate) solution, 138
- Energy calculations: Helical conformations of isotactic poly(methyl methacrylate). Energies computed with bond angle relaxation, 258
- Energy transfer: Fluorescence polarization in polystyrene, 366
- Epoxy composites: On processing-property relationships in graphite \_\_\_\_\_\_, 271
- Equation-of-state theory: The \_\_\_\_\_\_ -\_\_\_ of mixtures and the polymer solvent interaction parameter, 132
- Ester degradation: Thermal degradation of polyesteramide 6NT6, 190

- Ethylene: The determination of units in ethylene-propylene systems, 250
- Excimer: Anionic polymerization of acenaphthylene: Identification of impurity species formed as by products, 108
- Excimer: Fluorescence polarization in polystyrene, 366
- Excimer formation: Effect of pressure on intramolecular of polystyrene in solution, 166
- Extension ratios: of polymer molecules, 294
  Extensional flows: Scission of macromolecules
  in dilute solution: Extensional and turbulent
  flows 144
- Extraction: Inhomogeneity during the photopolymerization of diacrylates d.s.c. experiments and percolation theory, 354
- Fatigue cycling: Improved mechanical behaviour in ultra high modulus polyethylenes by controlled crosslinking, 298
- Fibre failure: A simple kinetic approach to \_\_\_\_\_\_\_, 246
- Flavins: Polymer-bound : 4.
  Application of flavin-containing polyelectrolyte absorbed on macroporous silica beads in a reactive column, 342

- Fluorescence: Anionic polymerization of acenaphthylene: Indentification of impurity species formed as by-products, 108
- Fourier self-deconvolution of mixed crystal polyethylene infra-red spectra, 162
- Fracture toughness: of carbon black/acrylic composite, 10
- Furan: Copolymers of acrylonitrile with methyl furan and dimethyl furan, 300
- Gel content: Computer aided calculation of crosslinking efficiency, 169
- Gel films: Ultra-drawing of high molecular weight polypropylene, 39
- Gel permeation chromatography: of cationic polymer on cationic porous silica gels, 55
- Gel permeation chromatography: Use of polymer derivatization in 71
- Gel permeation chromatography: The determination of the molecular weight of poly(ethyl-2-cyanoacrylate) adhesive, 318
- Gels: Turbulent boundary layer treatment for reacting polymer jets, 34
- Glass transition temperatures: of acrylic polymers and copolymers containing phenyl side groups, 373
- Graphite: On processing-property relationships in epoxy composites, 271
- Growth rate: of polymer crystals, 47
- Growth regimes: The importance of twin morphology for theories of crystallization of polymers, 196
- Helical model: Conformational analyses of poly(methylene disulphide), 251
- Hexatic phase: in poly(bistrifluoroethoxyphosphazene), (PBFP), thin films, 273
- Homotermination: On the relative importance of cross- and —— in radical copolymerization, 240
- the presence of aluminium hydroxide, 126 Hydrodynamic interactions; and the dynamics of polymer solutions, 133
- Hydrogenation: The heterogeneous polyisoprene, 206
- Hypersonic relaxation: Hypersonic dispersion properties in networks of an end-linked dimethylsiloxane oligomer, 59
- Identification: Anionic polymerization of acenaphthylene: — of impurity species formed as by-products, 108
- Immobilization: Polymer-bound flavins: 4.
  Application of flavin-containing polyelectrolyte absorbed on macroporous silica beads in a reactive column, 342
- Impact strength: d.s.c. correlation in mineralfilled polypropylene, 226

- Impact strength: Preparation of polypropylene natural rubber blends having high impact strength at low temperatures, 325
- Infra-red spectra: Fourier self-deconvolution of mixed crystal polyethylene ..., 162
- Infra-red spectroscopy: Conformational changes of trioxane-dioxolane copolymer induced by pressure and mechanical treatment, 80
- Inhomogeneity: during the photopolymerization of diacrylates d.s.c. experiments and percolation theory, 354
- Initiator: N.m.r. study of end-groups in polymers and copolymers of methyl methacrylate and styrene, prepared using 2-cyano-2-propylazoformamide as 260
- Injection moulding: Localized flow-induced morphological features in fibre reinforced thermoplastics, 361
- Interaction: Reactions of unsaturated trialkoxysilane in a hydrocarbon medium in the presence of aluminium hydroxide, 126
- Interaction parameter: The  $\chi^0$  and its concentration dependence, 21
- Interaction parameter: The equation-of-state theory of mixtures and the polymer-solvent
- Kevlar: Laser light scattering characterization of rod-like polymers in corrosive solvents:

  ——————————————————in concentrated sulphuric acid, 211
- Kevlar: A simple kinetic approach to fibre failure, 246
- Kerr effect: Dielectric and — studies on stereoregular poly(n-vinylcarbazole), 173
- Kinetic: A simple — approach to fibre failure, 246
- Kinetics: Growth rate of polymer crystals, 47 Kinetics: Emission decay — — of photoexcited Ru(phen)<sub>3</sub><sup>2+</sup> in poly(vinylsulphate) solution, 138
- Kinetics: Study on the polycondensation

   - of nylon-4,6 salt, 194
- Kuhn chain segment: Extension ratios of polymer molecules, 294
- Laser light scattering: characterization of rodlike polymers in corrosive solvents: Kevlar in concentrated sulphuric acid, 211
- Laser low-angle light scattering: Gel permeation chromatography of cationic polymer on cationic porous silica gels, 55
- Lattice model theory: The interaction parameter  $\chi^0$  and its concentration dependence,
- Light scattering: Studies on the structure of poly(vinyl chloride)/poly(acrylonitrile-co-butadiene) blends, 148
- Light scattering: Diffusion of poly(ethylene oxide) in water, 154

- Linear polymers: Effect of polydispersity on scattering functions of - at intermediate momentum transfer, 350
- Lithium: and sodium initiated transition polymerization of acrylamide, 363
- Mannich bases: The — in polymer synthesis: 6. Sulphur-containing polymers by exchange reaction between 2.6-bis(dimethylaminothyl)-4-methylphenol and dithiols, 115
- Mannich bases: The in polymer synthesis: 7. Poly(N-amino methylenamides) by polycondensation reaction of bis Mannich bases of dicarboxyamides with bis secondary amines, 119
- Mannich bases: The in polymer synthesis: 9. Sulphur containing polymers by polycondensation reaction of bis Mannich bases of dicarboxyamides with 1,3,-dimercaptobenzene, 281
- Markov statistics: Characterization of I-octene copolymers by <sup>13</sup>C n.m.r., 99
- Materials correlation: Crazing beneath notches in ductile glassy polymers: A
- Mechanical behaviour: Improved in ultra high modulus polyethylenes by controlled crosslinking, 298
- Mechanical treatment: Conformational changes of trioxane dioxolane copolymer induced by pressure and ..., 80
- Melting: State of water in highly elastic poly(vinyl aocohol) hydrogels prepared by repeated freezing and , 313
  Melt-recrystallization: The role of
- Membranes: Cation transport through liquid membranes mediated by photoreactive crown ethers, 254
- Metal complexes: Complexation of poly(*N*-vinylpyrrolidone) and *N*-vinylpyrrolidone copolymers with cupric(II) ions in aqueous solution, 220
- Metal complexes: Surface aspects of the metal selectivity in polymeric Schiff bases as studied by e.s.c.a., 275
- Metal-phthalocyanine: Functional metalporphyrazine derivatives and their polymers: 13. Secondary cells using bound to poly(2vinylpyridine-co-styrene) as positive electrodes, 284
- Metal selectivity: Surface aspects of the
  in polymeric Schiff bases as
  studied by e.s.c.a., 275
- Methacrylic acid: The influence of temperature on the template polymerization of in the presence of poly(vinylpyrrolidone). A d.s.c. investigation, 105
- Methyl-acrylate: Radicals in the polymerization system of valeraldehyde and - 308
- Methyl methacrylate: On the relative importance of cross- and homo-termination in radical copolymerization, 240

- Methyl methacrylate: Radical copolymerization of acrylic monomers: 7. High conversion polymerization of \_\_\_\_\_\_ in the presence of low concentrations of methyl α-benzylacrylate, 309
- Meuller matrix approach: An improved highly sensitive instrument for measuring optical birefringence, 378
- Microphase separation: The effect of polydispersity on the open of a block copolymer system, 265
- Microstructural effects: Glass transition temperatures of acrylic polymers and copolymers containing phenyl side groups, 373
- Microstructure: Stability of sodium acrylateacrylamide copolymers in aqueous solutions in presence of Ca<sup>2+</sup> influence of the ----, 208
- Modulation: An improved highly sensitive instrument for measuring optical birefringence, 378
- Molecular mechanics: Calculations to substantiate possible origins of some low temperature relaxation processes in comb branch polymers with pendant cycloalkyl rings, 66
- Molecular weight: The determination of the ----- of poly(ethyl-2-cyano-acrylate) adhesive, 318
- Momentum transfer: Effect of polydispersity on scattering functions fo linear polymers at intermediate -----, 350
- Morphological features: Localized flow induced in fibre reinforced thermoplastics, 361
- Morphology: The role of meltrecrystallization mechanism in deformation of crystalline polymers, 76
- Morphology: The importance of twin for theories of crystallization of polymers, 196
- Morphology: Evidence for the influence of XLPE———————————————on treeing probability, 204
- Network: Studies of cyclic and linear poly(dimethylsiloxanes): 15. Diffusion coefficients from \_\_\_\_\_\_ sorption measurements, 218
- Networks: Hypersonic dispersion properties in ————— of an end-linked dimethyl-siloxane oligomer, 59
- Networks: The effect of crosslink functionality on the elastomeric properties of bimodal ......, 347
- Neutron scattering: Hydrodynamic interactions and the dynamics of polymer solutions, 133
- Neutron scattering: Response to 'Comments on Crist et al.'s paper on chain dimensions of crystallizable polymers, an alternative interpretation of the experimental data', 136
- Neutron scattering: The effect of polydispersity on the microphase separation of a block copolymer system, 265
- Notches: Crazing beneath in ductile glassy polymers: A materials correlation, 357
- Nuclear magnetic resonance: Characterization of 1-octene copolymers by <sup>13</sup>C n.m.r.,

- Nuclear magnetic resonance: Study of endgroups in polymers and copolymers of methyl methacrylate and styrene, prepared using 2-cyano-2-propylazoformamide as initiator, 260
- Nuclear magnetic resonance: A note on the use of Zn(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>/CoCl<sub>2</sub>-pyridine as a catalyst for the stereospecific polymerization of N-vinylcarbazole, 286
- Nuclear magnetic resonance: Study of dynamics in poly(p-phenylene sulphide) by pulsed <sup>1</sup>H \_\_\_\_\_\_\_, 369
- Nucleation: Growth rate of polymer crystals,
- Nucleation: The importance of twin morphology for theories of crystallization of polymers, 196
- Nucleation: Impact strength-d.s.c. correlation in mineral-filled polypropylene, 226

- Optical activity: Induced \_\_\_\_\_\_ of acridine orange bonded to optically active poly(methacrylic acid) by radical polymerization in the presence of chitosan, 24
- Optical microscopy: Optical microscopic study on the phase separation of impactmodified PP blends and PP block copolymers, 122
- Optical polarizability: Dielectric and Kerr effect studies on stereoregular poly(N-vinylcarbazole), 173
- Organic solubility: Correlation of in poly(vinyl acetate), 262
- Orientation: Highly conducting poly(pphenylene vinylene) prepared from a sulphonium salt, 327
- Orthorhombic density: The structure of crystalline PEEK, 175
- Oxidation: The influence of a catalyst on the synthesis of poly(p-phenylene sulphide) from thiophenol and thionyl chloride, 53
- Oxidation: Radiation effects on high-impact polystyrene, 334
- Oxidation: Polymer-bound flavins: 4. Application of flavin-containing polyelectrolyte absorbed on macroporous silica beads in a reactive column, 342
- Oxidative stability: The synthesis and properties of poly(1,7-7H-heptafluoromethylenecyclohexenylene) a fluorinated conjugated polymers, 231
- Palladium catalyst: The heterogeneous hydrogenation of polyisoprene, 206
- Percolation theory: Inhomogeneity during the photopolymerization of diacrylates d.s.c. experiments and ————, 354
- Permeability: Studies on synthesis and permeabilities of special polymer membranes: 57. of solute through polymer membranes and state of water in their membranes, 30
- Peroxydisulphate-thioglycollic acid: Polymerization of acrylonitrile initiated by redox sysyem, 179
- Phase separation: Viscosity changes during urethane polymerization with

- Phase separation: Optical microscopic study on the \_\_\_\_\_\_ of impact-modified PP blends and PP block copolymers, 122
- M-phenylenebismaleimide: Preparation of polypropylene natural rubber blends having high impact strength at low temperatures, 325
- Photochemical behaviour: Thermal and
  of structurally related hindered piperidine light stabilizers in polyolefins, 235
- Photodimerization: Cation transport through liquid membranes mediated by photore-active crown ethers, 254
- Photoexcitation: Emission decay kinetics of photoexcited Ru(phen)<sub>3</sub><sup>2+</sup> in poly(vinyl-sulphate) solution, 138
- Photoisomerization: Cation transport through liquid membranes mediated by photoreactive crown ethers, 254
- Photostabilization: by hindered amines: The role of transition metal complexation, 44
- Physical ageing: Sequential relaxation as the mechanism of \_\_\_\_\_\_ in amorphous polymers. 2

- Plastic composite: Fracture toughness of carbon black/acrylic composite, 10
- Plasticity: Crazing beneath notches in ductile glassy polymers: A materials correlation,
- Polarization: Fluorescence in polystyrene, 366
- Polarization: An improved highly sensitive instrument for measuring optical birefringence, 378
- Poly(acetylene): The production of oriented, crystalline \_\_\_\_\_\_ by the Durham route, 98
- Polyacetylene: Electrical properties and stability of HCl-doped ———, 315
- Polyacrylamide: Stability of sodium acrylate– acrylamide copolymers in aqueous solutions in presence of Ca<sup>2+</sup> influence of the microstructure, 208
- Poly(acrylic acid): Use of polymer derivatization in gel permeation chromatography,
- Poly(-β-alanine): Lithium and sodium initiated transition polymerization of acrylamide, 363
- Polyamidation: Study on the polycondensation kinetics of nylon-4,6 salt, 194
- Poly(amide-imides): Synthesis and characterization of \_\_\_\_\_\_ from 3,4-dicarboxy-4'-chloroformylbiphenyl anhydride with aliphatic diamines, 223

- Poly(N-amino methylenamides): The Mannich bases in polymer synthesis: 7. by polycondensation reaction of bis Mannich bases of dicarboxyamides with bis secondary amines, 119
- Poly(aryl-ether-ether-ketone): The structure of crystalline —- , 175
- Poly(acryl-ether-ketone): The radiation effect on non-crystalline vealed by X-ray diffraction and thermal analysis, 238
- Poly(bistrifluoroethoxyphosphazene): -, (PBFP), thin xatic phase in films, 273
- Polybutadiene: Structure of poly(triazine urethane)--block copolymers,
- Poly(butyleneterephthalate): A reappraisal of the catalytic effects of tin(IV) compounds on transesterification and esterification reactions, 187
- Polycondensation: The Mannich bases in polymer synthesis: 6. Sulphur-containing polymers by exchange reaction between 2,6bis(dimethylamino-methyl)-4-methylphenol and dithiols, 115
- Polycondensation: The Mannich bases in polymer synthesis: 7. Poly(N-amino methylenamides) by reaction of bis Mannich bases of dicarboxyamides with bis secondary amines, 119
- Polycondensation: Study - kinetics of nylon-4,6 salt, 194 Polycondensation: Synthesis of polyamide graft copolymers using poly(2-hydroxyethyl methacrylate) macronomers, 278
- Polycondensation: The Mannich in polymer synthesis: 9. Sulphur containing polymers - reaction of bis Mannich bases of dicarboxyamides with 1,3-dimercaptobenzene, 281
- Polydiacetylene: Chromism with weakly interacting sidegroups, 242
- Polydispersity: The effect of --the microphase separation of ablock copolymer system, 265
- Poly(dichlorophosphazene): The solution polymerization reaction of hexachorocyclotriphosphazene by sulphur compounds, 93
- Poly(dimethyl siloxane): Determination of the physical stress relaxation of (PDMS) and Vitron E60C elastomers from dynamic mechanical measurements, 73
- Poly(dimethylsiloxanes): Studies of cyclic and - : 15. Diffusion coeflinear ficients from network sorption measurements, 218
- Polydispersity: Effect of scattering functions of linear polymers at intermediate momentum transfer, 350
- Polyelectrolytes: Polymer heat engines: 1. Study of poly(vinylamine) and some of its derivatives as potential working substances in heat engines, 18
- Polyelectrolytes: On the molecular weight dependence of the magnetic birefringence of polystyrene sulphonate at low ionic strength, 147
- Polyelectrolyte: Polymer-bound flavins: 4. Application οf flavin-containing - absorbed on macroporous silica beads in a reactive column, 342
- Polyesteramide 6NT6: Thermal degradation **-, 190**
- Poly(etheretherketone): On the structure of ----- (PEEK), 306
- Poly(ethyl-2-cyanoacrylate): The determination of the molecular weight of – adhesive, 318

- Polyethylene: Fourier self-deconvolution of mixed crystal - infra-red spectra, 162
- Polyethylene: Computer aided calculation of crosslinking efficiency, 169
- Polyethylene: The importance of twin morphology for theories of crystallization of polymers, 196
- Polyethylene: Evidence for the influence of XLPE morphology on treeing probability,
- Polyethylene: Thermal and photochemical behaviour of structurally related hindered piperdine light stabilizers in polyolefins, 235
- Polyethylenes: The Raman spectra of some branched —, 182
- Polyethylenes: Improved mechanical behaviour in ultra high modulus - by controlled crosslinking,
- Polyethylenes: Proton n.m.r. spin-lattice relaxation in the rotating frame and the thickness of the crystalline lamellae in some -, 303
- Poly(ethylene-co-1-octene): Characterization of 1-octene copolymers by 13C n.m.r., 99 Poly(ethylene oxide): Diffusion in water, 154
- Poly(ethylene terephthalate): The measurement of infra-red emission and spectral emittance of thin polymer films, 15
- Poly(1,7-7H-heptafluoromethylenecyclohexenylene): The synthesis and properties of -, a fluorinated conjugated polymer, 231
- Poly(2-hydroxyethyl methacrylate): Synthesis of polyamide graft copolymers using - macromonomers, 278
- Polyisoprene: Temperature dependence of the self diffusion coefficient of the bulk state, 141
- Polyisoprene: The heterogeneous hydroge-
- nation of - 206
  Polymeric fibres: The role of meltrecrystallization mechanism in deformation of crystalline polymers, 76
- Polymer films: The measurement of infra-red emission and spectral emittance of thin - -, 15
- Polymer films: The contact angle of water on **---** , 269
- Polymer heat engines: 1. Study of poly(vinylamine) and some of its derivatives as potential working substances in heat engines, 18
- Polymer jets: Turbulent boundary layer treatment for reacting — - , 34
- Polymer membranes: Studies on synthesis and permeabilities of special --Permeability of solute through polymer membranes and state of water in their membranes, 30
- Polymer molecules: Extension ratios of - , 294
- Polymerization: Induced optical activity of acridine orange bonded to optically active poly(methacrylic acid) by radical
- Polymerization: Viscosity changes during urethane -- with phase separation, 82
- Polymerization: The solution reaction of hexachlorocyclotriphosphazene by sulphur compounds, 93
- Polymerization: The influence of temperature on the template — of methac-rylic acid in the presence of poly(vinylpyrrolidone). A d.s.c. investigation, 105

- Polymerization: Anionic ---acenaphthylene: Indentification of impurity species formed as by-products, 108
- Polymerization: of acrylonitrile initiated by peroxydisulphate-thioglycollic acid redox system, 179
- Polymerization: Anionic nyl monomers under high pressure, 268
- Polymerization: A note on the use of Zn(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>/CoCl<sub>2</sub>-pyridine as a catalyst for the stereospecific vinylcarbazole, 286
- Polymerization: Radicals in the system of valeraldehyde and methylacrylate, 308
- Polymerization: Radical copolymerization of acrylic monomers: 7. High conversion - of methyl methacrylate in the presence of low concentrations of methyl xbenzylacrylate, 309
- Polymerization: The effects of volume relaxation and thermal mobilization of trapped radicals on the final conversion of photopolymerized diacrylates, 322
- Polymerization: Synthesis and of acylated x-acetoxy-4-hydroxy styrenes,
- Polymerization: Lithium and sodium initiated of acrylamide, 363 transition -Poly(methacrylic acid): Induced optical activity of acridine orange bonded to optically by radical polymeri-
- zation in the presence of chitosan, 24 Poly(methylene disulphide): Conformational analyses of -·-, 251
- Poly(methylmethacrylate): Refractive index increments of - — - at 633 nm, 158
- Poly(methylmethacrylate): Helical conformations of isotactic computed with bond angle relaxation, 258
- Poly(methylmethacrylate): Water uptake and
- Polymorphism: The  $\beta$ -structure of nylon-6 determined by reflection high energy electron diffraction, 27
- Polyolefins: Thermal and photochemical behaviour of structurally related hindered piperdine light stabilizers in
- Polyoxymethylene: Conformational changes of trioxane-dioxolane copolymer induced by pressure and mechanical treatment, 80
- Poly(p-phenylene oxide): On the structure of poly(etheretherketone) (PEEK), 306
- Poly(p-phenylene sulphide): The influence of a catalyst on the synthesis of ---from thiophenol and thionyl chloride, 53
- Poly(p-phenylene sulphide): Study of dynamics in — - by pulsed <sup>1</sup>H nuclear magnetic resonance, 369
- Poly(p-phenylene vinylene): Highly conduct-- prepared from a suling phonium salt, 327
- Poly(polymethylene dietlluride)s: Syntheses aliphatic of tellurium polymers: poly(polymethylene telluride)s -, 329
- Poly(polymethylene telluride)s: Syntheses of aliphatic tellurium polymers: and poly(polymethylene dietlluride)s, 329
- Polypropylene: Ultra-drawing of high molecular weight -----, 39 i-Polypropylene: Study of crosslinked
- by spin probe methods, 112
- Polypropylene: Optical microscopic study on the phase separation of impact-modified PP blends and PP block copolymers, 122
- Polypropylene: Impact strength-d.s.c. correlation in mineral-filled polypropylene, 226

- Polypropylene: Mechanisms of antioxidant action: the effect of nitroxyl-substituted xanthates in the stabilization of ————, 233
- Polypropylene: Thermal and photochemical behaviour of structurally related hindered piperdine light stabilizers in polyolefins, 235 Polypropylene: The determination of ethylene

units in ethylene-propylene systems, 250 Polypropylene: Preparation of

- natural rubber blends having high impact strength at low temperatures, 325
- Polypropylene: Localized flow-induced morphological features in fibre reinforced thermoplastics, 361
- Poly(propylene-co-1-octene): Characterization of 1-octene copolymers by <sup>13</sup>C n.m.r.,
- Polystyrene: Staining of melt crystallized isotactic -——— by RuO<sub>4</sub>, 68
- Polystyrene: Scission of macromolecules in dilute solution: Extensional and turbulent flows, 144
- Polystyrene: Effect of pressure on intramolecular excimer formation of \_\_\_\_\_\_ in solution, 166
- Polystyrene: Wide-angle neutron scattering from isotactic -----: the fold arrangement in solution grown crystals, 290 Polystyrene: Radiation effects on high-impact
- —, 334
  Polystyrene: Synthesis and polymerization of acylated α-acetoxy-4-hydroxy styrenes, 337
- weight dependence of the magnetic birefringence of - at low ionic strength, 147
- Polysulphone phthalonitriles: Synthesis of \_\_\_\_\_\_\_, 42
- Poly(tetramethylene adipamide): Study on the polycondensation kinetics of nylon-4,6 salt, 194
- Poly(thioarylene): The influence of a catalyst on the synthesis of poly(p-phenylene sulphide) from thiophenol and thionyl chloride,
- Poly(vinyl acetate): Correlation of organic solubility in \_\_\_\_\_\_\_, 262
- Poly(vinyl alcohol): State of water in highly elastic hydrogels prepared by repeated freezing and melting, 313
- Polyivinylamine): Polymer heat engines: 1. Study of — and some of its derivatives as potential working substances in heat engines, 18
- Poly(n-vinylcarbazole): Dielectric and Kerr effect studies on stereoregular -----, 173
- Poly(N-vinylcarbazole): A note on the use of Zn(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>/CoCl<sub>2</sub>-pyridine as a catalyst for the stereospecific polymerization of N-vinylcarbazole, 286
- Poly(vinyl chloride): Viscoelastic properties of ... influence of crystallinity, 36
- Poly(vinyl chloride): Studies on the structure of \_\_\_\_\_/poly(acrylonitrile-co-butadiene) blends, 148
- Poly(vinyl chloride): The origin of the band at 450 nm in the ultra violet/visible adsorption spectrum of degraded ———, 185
- Poly(vinylene sulphide): Synthesis of, 79
  Poly(2-vinylpyridine-co-styrene): Functional
  metal-porphyrazine derivatives and their
  polymers: 13. Secondary cells using metalphthalocyanine bound to \_\_\_\_\_\_ as

positive electrodes, 284

- Pressure: Effect of on intramolecular excimer formation of polystyrene in solution, 166
- Processing: On property relationships in graphite epoxy composites, 271
- Property: On processing --- relationships in graphite epoxy composites,
- Propylene: Copolymerization of ethylene and with the catalytic system of TiCl<sub>4</sub> MgR<sub>2</sub>, 171
- Propylene: The determination of ethylene units in ethylene-systems, 250
- Radiation: The \_\_\_\_\_\_\_ effect on noncrystalline poly(aryl-ether-ketone) as revealed by X-ray diffraction and thermal analysis, 238
- Radiation: effects on high-impact polystyrene,
- Radicals: in the polymerization system of valeraldehyde and methyl-acrylate, 308
- Radiothermal eminescence: Studies on the structure of poly(vinyl chloride)/poly(acrylonitrile-co-butadiene) blends, 148
- Raman spectra: The section of some branched polyethylenes, 182
- Rayleigh scattering: Temperature dependence of the self diffusion coefficient of polyisoprene in the bulk state, 141
- Reaction injection moulding: Viscosity changes during urethane polymerization with phase separation, 82
- Redox system: Polymerization of acrylonitrile initiated by peroxydisulphate-thioglycollic acid ..., 179
- Refractive index: increments of poly(methylmethacrylate) at 633 nm, 158
- Regeneration: Regenerated cellulose membranes from solutions in aqueous copper(II)/1,3-diaminopropane and the dependence of physical properties on regenerating conditions, 88
- Relaxation: Helical conformations of isotactic poly(methylmethacrylate). Energies computed with bond angle --- , 258
- Relaxation: Proton n.m.r. spin-lattice

  in the rotating from and the thickness of crystalline lamellae in some polyethylenes, 303
- Relaxation processes: Calculations to substantiate possible origins of some low temperature in comb branch polymers with pendant cycloakyl rings, 66

- Retarder: Titanate coupling agent[Isopropyl tri(dioctylpyrophosphato) titanate] as a \_\_\_\_\_ in natural rubber vulcanization, 49
- Rotating frame: Proton n.m.r. spin-lattice relaxation in the \_\_\_\_\_\_ and the thickness of the crystalline lamellae in some polyethylenes, 303
- Rubber: Compounding of styrene-butadiene
  with card-phenol in the presence of calcium carbonate, 152
- Rubber: Temperature dependence of the tear strength of short silk fibre reinforced composites, 345
- Rubber blends: Preparation of polypropylene natural having high impact strength at low temperatures, 325
- Rupture: The effect of crosslink functionality on the elastomeric properties of bimodal networks, 347
- Ruthenium tetraoxide: Staining of melt crystallized isotactic polystyrene by RuO<sub>4</sub>, 68
- Rutherford backscattering spectroscopy: Staining of melt crystallized isotactic polystyrene by RuO<sub>4</sub>, 68

- Schiff bases: Surface aspects of the metal selectivity in polymeric as studied by e.s.c.a., 275
- Scission: of macromolecules in dilute solution: Extensional and turbulent flows, 144
- Second order scattering: The Raman spectra of some branched polyethylenes, 182
- Sensitive instrument: An improved highly for measuring optical birefringence, 378
- Sequential relaxation: as the mechanism of physical ageing in amorphous polymers, 2 Shear failure: Maximum strains for craze in-
- itiation in ductile glassy polymers, 130 Shish-kebabs: Localized flow-induced mor-
- phological features in fibre reinforced thermoplastics, 361 Silica beads: Polymer-bound flavins: 4. Appli-
- Silica beads: Polymer-bound flavins: 4. Application of flavin-containing polyelectrolyte absorbed on macroporous in a reactive column, 342
- Silica gels: Gel permeation chromatography of cationic polymer on cationic porous , 55
- Silk fibre: Temperature dependence of the tear strength of short reinforced rubber composites, 345
- Small-angle X-ray diffraction: Structure of poly(triazine urethane)-(polybutadiene) block copolymers, 229
- Sodium: Lithium and initiated transition polymerization of acrylamide, 363 Sorption measurements: Studies of cyclic and linear poly(dimethylsiloxanes): 15. Diffusion

coefficients from network

Sorption mechanism: Water uptake and volumetric changes in poly(methylmethacrylate), 331

- Specific volume: Refractive index increments of poly(methylmethacrylate) at 633 nm, 158
- Spectral emittance: The measurement on intra-red emission and of thin polymer films, 15
- Spherulites: Growth rate of polymer crystals, 47
- Spin probe: Study of crosslinked ipolypropylene by methods, 112
- Stability: of sodium acrylate-acrylamide copolymers in aqueous solutions in the presence of Ca<sup>2+</sup> influence of the microstructure. 208
- Stability: Electrical properties and of HCl-doped polyacetylene, 315
- Stabilization: Mechanisms of antioxidant action: the effect of nitroxyl-substituted xanthates in the of polypropylene, 233
- Staining: of melt crystallized isotactic polystyrene by RuO<sub>4</sub>, 68
- Star shaped polymer: Response to 'Comments on Crist et al.'s paper on chain dimensions of crystallizable polymers, an alternative interpretation of the experimental data', 136
- Storage modulus: Viscoelastic properties of poly(vinyl chloride): influence of crystal-linity, 36
- Stress relaxation: Determination of the physical response of poly(dimethylsiloxane) (PDMS) and Vitron E60C elastomers from dynamic mechanical measurements, 73
- Stress rupture: A simple kinetic approach to fibre failure, 246
- Structure: Studies on the poly(vinyl chloride)/poly(acrylonitrile-co-butadiene) blends, 148
- Structure: Single-fibre poly(acetylene), 201 Structure: of poly(triazine urethane)polybutadiene block copolymers, 229
- Structure: On the of poly(etheretherketone) (PEEK), 306
- Structure: property relations in cellulose 1 fibres: 1. Dielectric properties, 382
- Styrene: Compounding of -butadiene rubber with card-phenol in the presence of calcium carbonate, 152
- Styrene: On the relative importance of crossand homo-termination in radical copolymerization, 240

- Sulphur compounds: The solution polymerization reaction of hexachlorocyclotriphosphazene by ......., 93
- Surface aspects: of metal complexed polymeric Schiff bases as studied by means of e.s.c.a., 5
- Surface chemistry: Surface aspects of metal complexed polymeric Schiff bases as studied by means of e.s.c.a., 5
- Synchotron X-ray source: The role of meltrecrystallization mechanism in deformation of crystalline polymers, 76

- membranes and state of water in their membranes, 30
- Synthesis: The Mannich bases in polymer

  6. Sulphur-containing polymers by exchange reaction between 2,6-bis(dimethylaminomethyl)-4-methylphenol and dithiols, 115
- Synthesis: The Mannich bases in polymer
  7. Poly(N-amino methylenamides) by polycondensation reaction of bis Mannich bases of dicarboxyamides with bis secondary amines, 119
- Synthesis: and characterization of poly(amideimides) from 3,4-dicarboxy-4'chloroformylbiphenylanhydride with aliphatic diamines, 223
- Synthesis: of polyamide graft copolymers using poly(2-hydroxyethyl methacrylate) macromoners, 278
- Synthesis: The Mannich bases in polymer

  : 9. Sulphur containing polymers by polycondensation reaction of bis Mannich bases of dicarboxyamides with 1,3-dimercaptobenzene, 281
- Synthesis: Syntheses of aliphatic tellurium polymers: poly(polymethylene telluride)s and poly(polymethylene ditelluride)s, 329
- Synthesis: and polymerization of acylated αacetoxy-4-hydroxy styrenes, 337
- Tear strength: Temperature dependence of the ... of short silk fibre reinforced rubber composites, 345
- Temperature dependence: of the self diffusion coefficient of polyisoprene in the bulk state, 141
- Temperature dependence: The determination of dln  $r_0^{-2}/dT$  by the method of temperature induced creep, 213
- Temperature dependence: of the tear strength of short silk fibre reinforced rubber composites, 345
- Thermal analysis: Evidence for the influence of XLPE morphology on treeing probability,
- Thermal analysis: The radiation effect on noncrystalline poly(aryl-ether-ketone) as revealed by X-ray diffraction and thermal analysis, 238
- Thermal behaviour: Thermal and photochemical behaviour of structurally related hindered piperdine light stabilizers in polyolefins, 235
- Thermal behaviour: Glass transition temperatures of acrylic polymers and copolymers containing phenyl side groups, 373
- Thermal degradation: of polyesteramide 6NT6, 190
- Thermal sampling: Sequential relaxation as the mechanisms of physical ageing in amorphous polymers, 2

- Thermal stability: Synthesis and characterization of poly(amide-imides) from 3,4-dicarboxy-4'-chloroformylbiphenyl anhydride with aliphatic diamines, 223
- Thermodynamics: The equation-of-state theory of mixtures and the polymer solvent interaction parameter, 132
- Thermodynamics: Correlation of organic solubility in poly(vinyl acetate), 262
- Thermoelastic experiment: The determination of dln  $r_0^{-2}/dT$  by the method of temperature induced creep, 213
- Thermogravimetric analysis: Synthesis and characterization of poly(amide-imides) from 3,4-dicarboxy-4'-chloroformylbiphenyl anhydride with aliphatic diamines, 223
- Thermoplastic rubber: Optical microscopic study on the phase separation of impactmodified PP blends and PP block copolymers, 122
- Thin films: Hexatic phase in poly(bistrifluoroethoxyphosphazene). (PBFP).
- Tin(IV) compounds: A reappraisal of the catalytic effects of -- on transesterification and esterification reactions, 187
- Tinuvin 770: Photostabilization by hindered amines: The role of transition metal complexation, 44
- Titane coupling agent: [Isopropyl tri(dioctylpyrophosphato) titanate] as a retarder in natural rubber vulcanization, 49
- Transesterification: A reappraisal of the catalytic effects of tin(IV) compounds on and esterification reactions,
- Transition: Turbulent boundary layer treatment for reacting polymer jets, 34
  Transition metal: Photostabilization by hin-
- Transmission electron microscopy: The production of oriented, crystalline poly(acetylene) by the Durham route, 98
- Treeing probability: Evidence for the influence of XLPE morphology on \_\_\_\_\_\_\_\_, 204
- Turbulent: boundary layer treatment for reacting polymer jets, 34
- Turbulent flows: Scission of macromolecules in dilute solution: Extensional and \_\_\_\_\_\_, 144
- Ultra-drawing: of high molecular weight polypropylene, 39
- Uniaxial stress: Maximum strains for craze initiation in ductile glassy polymers, 130
- Valeraldehyde: Radicals in the polymerization system of --- -- and methylacrylate, 308
- N-vinylcarbazole: A note on the use of Zn(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>/CoCl<sub>2</sub>-pyridine as a catalyst for the stereospecific polymerization of 286
- Vinyl monomers: Anionic polymerization of —— under high pressure, 268

N-vinylpyrrolidone: Complexation of poly(Nvinylpyrrolidone) and lymers with cupric(II) ions in aqueous solution, 220 Viscoelastic properties: of poly(vinyl chloride): influence of crystallinity, 36 Viscosity: Turbulent boundary layer treatment for reacting polymer jets, 34 Viscosity changes during urethane polymerization with phase separation, 82 Visible absorption spectrum: The origin of the band at 450 nm in the ultra vio-- of degraded poly(vinyl chloride), 185 Vitron E60C: Determination of the physical stress relaxation response of poly(dimethylsiloxane) (PDMS) and tomers from dynamic mechanical measurements, 73

relaxation: The

photopolymerized diacrylates, 322

trapped radicals on the final conversion of

Volume

repeated freezing and melting, 313
Water uptake: and volumetric changes in poly(methylmethacrylate), 331

Wide-angle neutron scattering: from isotactic polystyrene: the fold arrangement in solution grown crystals, 290

Wide-angle X-ray scattering: Ultra-drawing of high molecular weight polypropylene, 39

X-ray diffraction: Studies on the structure of poly(vinyl chloride)/poly(acrylonitrile-co-butadiene) blends, 148

X-ray diffraction: The radiation effect on noncrystalline poly(aryl-ether-ketone) as revealed by ———— and thermal analysis, 238

X-ray diffraction: On the structure of poly(etheretherketone) (PEEK), 306

X-ray diffraction: Study of dynamics in poly(pphenylene sulphide) by pulsed <sup>1</sup>H nuclear magnetic resonance, 369

X-ray scattering for chemical analysis: Surface aspects of the metal selectivity in polymeric Schiff bases as studied by \_\_\_\_\_\_\_, 275

Yielding: Deformation behaviour of styrenebutadiene block copolymers, 178

### Reprints

effects

- and thermal mobilization of

# Reprints of all articles in this journal are available in quantities of 100 or more

#### Reprints are essential-

- for the company that wants to distribute impartial comment on its activities to potential customers and clients
- for the company that wants to up-date its technical staff on new techniques and new technologies
- for the company that wants to publicize its research and development work
- for the training course organizer who wants to assemble key reading material for his students
- for the university or technical college lecturer who wants to distribute the latest information on a topic under study

For full details of prices and availability of reprints, please write to

The Reprint Department
Butterworth Scientific Limited
PO Box 63 Westbury House Bury Street
Guildford Surrey GU2 5BH England