

# Author Index

- Abadie, M.: *see* Souel, T., Schué, F., Abadie, M. and Richards, D. H.
- Abou-State, M. Amine; Fahmy, Adel M. and El-Din, Nabil M. Safy: Cold alkali refining of cellulosic pulps derived from Egyptian cotton and bagasse, 315
- Abramenko, E. L.: *see* Khatchaturov, A. S., Dolinskaya, E. R., Prozenko, L. K., Abramenko, E. L. and Kormer, V. A.
- Abushihada, A. M.: *see* Tait, P. J. T. and Abushihada, A. M.
- Adshead, Alan: *see* Lindsay, S. M., Adshead, Alan and Shepherd, I. W.
- Aitken, R. R. and Jeffs, G. M. F.: Thermoplastic polyurethane elastomers based on aliphatic diisocyanates: thermal transitions, 197
- Akaike, Toshihiro and Inoue, Shohei: Infra-red spectra of the copolymer ( $\beta$ -benzyl D- and L-aspartate) obtained by the polymerization of the *N*-carboxylic anhydride, 95
- Alcazar, J. C.: *see* Riande, E., Fatou, J. G. and Alcazar, J. C.
- Alexandrovich, P., Karasz, F. E. and MacKnight, W. J.: Partial miscibility in the system poly(*para*-chlorostyrene-co-*ortho*-chlorostyrene)/poly(2,6-dimethyl-1,4-phenylene oxide), 1022
- Alfonso, Giovanni Carlo: *see* Pedemonte, Enrico; Alfonso, Giovanni Carlo; Dondero, Giovanni; de Candia, Francesco and Aaimo, Luigi
- Aliwi, S. M. and Bamford, C. H.: Photoactive polymers containing vanadium: 1. Preparation, characterization and photoreactions, 375. 2. Kinetics of photodecomposition, 381
- Allen, N. S. and McKellar, J. F.: Fluorescence and photooxidation of commercial polypropylene, 968
- Andersen, M. and Nir, S.: Van der Waals parameters, refractive indices and dispersion equations of spectrin, actin and other mammalian proteins, 867
- Angulo-Sánchez, J. L., Gallegos, A., Ponce-Vélez, M. A. and Campos-López, E.: Specific refractive index increments of Guayule rubber in several solvents, 922
- Arai, Kozo: Grafting onto wool: 7. Determination of end groups of grafted polymer and homopolymer formed in methanol-benzoyl initiating system, 211
- Arai, Kozo and Tanabe, Hiroshi: Grafting onto wool: 8. Amino-acid compositions of various fractions of wool graft copolymers synthesized by methanol-benzoyl peroxide system, 220
- Araimo, Luigi: *see* Pedemonte, Enrico; Alfonso, Giovanni Carlo; Dondero, Giovanni; de Candia, Francesco and Aaimo, Luigi
- Arch Taromi, Faramarz: *see* Candau, Françoise; Arch Taromi, Faramarz and Rempp, Paul
- Arpin, M., Strazielle, C., Weill, G. and Benoit, H.: Optical anisotropy of a worm-like chain and its application to the determination of the persistence length in an aromatic polyamide, 262
- Arpin, M. and Strazielle, C.: Characterization and conformation of aromatic polyamides: poly(1,4-phenylene terephthalamide) and poly(*p*-benzamide) in sulphuric acid, 591
- Atkinson, Carole M. L. and Dietz, R.: Molecular weight characterization of poly(vinyl chloride): reference materials and universal calibration, 408
- Attwood, T. E., Barr, D. A., Feasey, G. G., Leslie, V. J., Newton, A. B. and Rose, J. B.: Poly(arylene ether sulphones) by polyetherification: 1. Synthesis of halogenophenols, 354
- Attwood, T. E., Barr, D. A., King, T., Newton, A. B. and Rose, J. B.: Poly(arylene ether sulphones) by polyetherification: 2. Polycondensations, 359
- Attwood, T. E., King, T., McKenzie, I. D. and Rose, J. B.: Poly(arylene ether sulphones) by polyetherification: 3. Molecular weight, molecular weight distribution and the possibility of chain branching, 365
- Attwood, T. E., King, T., Leslie, V. J. and Rose, J. B.: Poly(arylene ether sulphones) by polyetherification: 4. Physical properties in relation to molecular structure, 369
- Ayrey, G., Humphrey, M. J. and Poller, R. C.: Radiochemical studies of free-radical vinyl polymerizations: 7. Polymerization of methyl acrylate, 840
- Bakoš, D.: *see* Bleha, T., Bakoš, D. and Berek, D.
- Balasubramaniam, M.: *see* Nanjan, M. J., Balasubramaniam, M., Srinivasan, K. S. V. and Santappa, M.
- Ballard, D. G. H., Cunningham, A. and Schelten, J.: Small-angle neutron scattering studies of polyethylene crystallized at high pressure, 259
- Ballard, D. G. H.: *see* Schelten, J., Wignall, G. D., Ballard, D. G. H. and Longman, G. W.
- Bamford, C. H.: *see* Aliwi, S. M. and Bamford, C. H.
- Bandyopadhyay, A. K.: *see* Mukherjea, R. N. and Bandyopadhyay, A. K.
- Barentsen, W.: *see* Heikens, D. and Barentsen, W.
- Barr, D. A.: *see* Attwood, T. E., Barr, D. A., Feasey, G. G., Leslie, V. J., Newton, A. B. and Rose, J. B.
- Barr, D. A.: *see* Attwood, T. E., Barr, D. A., King, T., Newton, A. B. and Rose, J. B.
- Baszkin, A.: *see* Leclercq, B., Sotton, M., Baszkin, A. and Ter-Minassian-Saraga, L.
- Baylouzian, Sara: *see* Nasrallah, Elias and Baylouzian, Sara
- Baysal, B. M.: *see* Orhan, E. H., Yilgör, I. and Baysal, B. M.
- Beamish, A., Goldberg, R. A. and Hourston, D. J.: Effect of casting solvents on certain physical properties of ABA poly(styrene-*b*-butadiene) copolymers, 49
- Beevers, Martin S., Garrington, David C. and Williams, Graham: Dielectric and dynamic Kerr effect studies of poly(n-butyl isocyanate) and poly(n-octyl isocyanate) in solution, 540
- Begum, A.: *see* Heatley, F., Begum, A. and Cox, M. K.
- Bellissent, H.: *see* Bourguignon, J. J., Bellissent, H. and Galin, J. C.
- Bello, A.: *see* Marco, C., Fatou, J. G. and Bello, A.
- Benoit, H.: *see* Arpin, M., Strazielle, C., Weill, G. and Benoit, H.
- Benoit, Henri: *see* Dondos, Anastasios and Benoit, Henri
- Berek, D.: *see* Bleha, T., Bakoš, D. and Berek, D.
- Berens, A. R.: Diffusion and relaxation in glassy polymer powders: 1. Fickian diffusion of vinyl chloride in poly(vinyl chloride), 697
- Berens, A. R.: *see* Enscore, D. J., Hopfenberg, H. B., Stannett, V. T. and Berens, A. R.
- Berghmans, H.: *see* Overbergh, N. and Berghmans, H.
- Bevington, John C., Jemmett, John A. L. and Onyon, Peter F.: Polymerization of methyl- $\alpha$ -cyanoacrylate: 3. Study of radical polymerization by differential scanning calorimetry, 73
- Bevington, J. C., Suggate, J. R. and Weale, K. E.: Effect of pressure upon the dissociation of the benzyloxy radical, 749
- Bhargava, G. S.: *see* Khan, H. U., Bhargava, G. S. and Gupta, V. K.
- Blackadder, D. A. and Le Poidevin, G. J.: Dissolution of polypropylene in organic solvents: 3. Effect of molecular weight of polymer, 547
- Bleha, T., Bakoš, D. and Berek, D.: Estimation of thermodynamic quality of the solvent from the concentration effect in gel permeation chromatography of polymers, 897
- Block, H., Cowden, D. R., Lord, P. W. and Walker, S. M.: Molecular motions in poly(*N*-vinylsuccinimide), 175
- Block, H., Cowd, M. A. and Walker, S. M.: Conductivities of poly(*N*-vinyl carbazoles) containing cation-radicals, 781
- Block, H., Evans, D. and Walker, S. M.: N.m.r. relaxation studies of molecular motion in alternating copolymers of styrene and *N*-substituted maleimides, 786
- Blundell, D. J., Cogswell, F. N., Holdsworth, P. J. and Willmouth, F. M.: Melting behaviour of stress crystallized high density polyethylene, 204
- Boileau, Sylvie: *see* Deffieux, Alain and Boileau, Sylvie
- Bonner, D. C.: *see* Chaing, H. S. and Bonner, D. C.
- Booth, C.: *see* Cooper, D. R. and Booth, C.
- Booth, C.: *see* Edward, Joyce M., Mulley, R. D., Pape, G. A., Booth, C. and Shepherd, I. W.
- Booth, C.: *see* Fraser, M. J., Cooper, D. R. and Booth, C.
- Booth, C.: *see* Fraser, M. J., Marshall, A. and Booth, C.
- Booth, C.: *see* Friday, A., Cooper, D. R. and Booth, C.

## Author Index

- Booth, C.: *see* Hartley, A. J., Leung, Y.-K., McMahon, J., Booth, C. and Shepherd, I. W.
- Booth, C.: *see* Price, C., Forget, J.-L. and Booth, C.
- Bourguignon, J. J., Bellissent, H. and Galin, J. C.: Nucleophilic substitution onto poly(methyl methacrylate): 3. Compositional homogeneity of the substituted polymethacrylates, 937
- Bowmer, T. N. and O'Donnell, J. H.: Nature of the side chain branches in low density polyethylene: volatile products from gamma radiolysis, 1032
- Boys, Daphne: *see* Radic, Deodato, Boys, Daphne and Gargallo, Ligia
- Braun, Dietrich and Disselhoff, Gabriele: Kinetics of copolymerizations: 1. Dilatometric investigation of the copolymerizations of benzyl methacrylate, styrene and methyl methacrylate, 963
- Brecher, Arthur S.: *see* Twining, Sally S., LaPointe, Diane and Brecher, Arthur S.
- Brereton, M. G. and Davies, G. R.: A proposed explanation of the universal nature of the two relaxation processes occurring in simple glass forming materials in the region of the glass transition, 764
- Brewis, Derek M., Comyn, John and Fowler, John R.: Bonding of carbon fibre composites with an epoxide-isoprene copolymer, 76
- Brewis, D. M., Comyn, J. and Fowler, J. R.: An aliphatic amine cured rubber modified epoxide adhesive: 2. Further evaluation, 951
- Brough, A. W. J., Epton, R., McLaren, J. V. and Marr, G.: Poly(*N*-acryloyl-L-propyl morphine): a g.i.p.c. packing exhibiting novel temperature dependence in solute distribution coefficients, 1208
- Brown, Norman: *see* Imai, Yasufumi and Brown, Norman
- Bruno, G., Foti, S., Maravigna, P., Montaudo, G. and Przybylski, M.: Thermal degradation of bridged polyaromatic sulphides investigated by direct pyrolysis in the mass spectrometer, 1149
- Bruzzone, M.: *see* della Fortuna, G., Oberrauch, E., Salvatori, T., Sorta, E. and Bruzzone, M.
- Bullock, Anthony T., Cameron, G. Gordon and Elsom, John M.: Electron spin resonance studies of spin-labelled synthetic polymers: 13. Lithiation of copolymers of chloro- and bromostyrenes, 930
- Burfield, D. R. and Gan, S. N.: Determination of epoxy groups in natural rubber by degradation methods, 607
- Burgess, F. J., Cunliffe, A. V., MacCallum, J. R. and Richards, D. H.: Reaction to effect the transformation of anionic polymerization into cationic polymerization: 1. Synthesis and reactivities of anionically generated bromine terminated polymers, 719. 2. Synthesis and reactivities of anionically generated xylylene bromide-terminated polymers, 726
- Burgess, F. J., Cunliffe, A. V., Dawkins, J. V. and Richards, D. H.: Reaction to effect the transformation of anionic polymerization into cationic polymerization: 3. Analysis of block copolymer formation by gel permeation chromatography, 733
- Burns, C. M.: *see* Rudin, A., Wagner, R. A., Chee, K. K., Lau, W. W. Y. and Burns, C. M.
- Čačković, H.: *see* Haase, J., Hosemann, R. and Čačković, H.
- Camara, O.: *see* David, C., Camara, O. and Geuskens, G.
- Cameron, G. Gordon: *see* Bullock, Anthony T., Cameron, G. Gordon and Elsom, John M.
- Campos, Agustín and Figueruelo, Juan E.: Preferential solvation of solvent(1)/polymer(2)/polymer(3) ternary systems by gel permeation chromatography,
- Campos-López, E.: *see* Angulo-Sánchez, J. L., Gallegos, A., Ponce-Vélez, M. A. and Campos-López, E.
- Candau, Françoise; Archar-Taromi, Faramarz and Rempp, Paul: Synthesis and characterization of polystyrene-poly(ethylene oxide) graft copolymers, 1253
- Canella, M.: *see* D'Ilario, L. and Canella, M.
- Capaccio, G. and Ward, I. M.: Fibrillar structure of ultra-oriented polyethylene, 967
- Casey, M.: Studies of the morphology of one-way drawn poly(ethylene terephthalate) films by X-ray diffraction, 1219
- Cavallo, P., Martuscelli, E. and Pracella, M.: Properties of solution grown crystals of isotactic propylene/butene-1 copolymers, 42
- Cavallo, Paolo; Martuscelli, Ezio and Pracella, Mariano: Effect of thermal treatment on solution grown crystals of isotactic propylene/butene-1 copolymers, 891
- Chaing, H. S. and Bonner, D. C.: Sorption of solutes by poly(ethylene oxide): 3. Partial molar entropy and enthalpy in poly(ethylene oxide) solution with benzene, 1009
- Chakraborty, Khrud B. and Scott, Gerald: The nature of the initiation process in the photo-oxidation of polypropylene, 98
- Chakraborty, S. N.: *see* Mukhopadhyay, Rabindra; De, Sadhan K. and Chakraborty, S. N.
- Chalmers, J. M.: Laser-Raman spectrum of helical syndiotactic polypropylene, 681
- Chantry, G. W., Nicol, Elisabeth, A., Jones, R. G., Willis, H. A. and Cudby, M. E. A.: On the vibrational assignment problem for polytetrafluoroethylene: 1. The far infra-red spectrum, 37
- Chee, K. K.: *see* Rudin, A., Wagner, R. A., Chee, K. K., Lau, W. W. Y. and Burns, C. M.
- Chelko, Albert J. Jr: *see* Plazek, Donald J. and Chelko, Albert J. Jr.
- Chen, F. C., Poon, Y. M. and Choy, C. L.: Thermal diffusivity of polymers by the flash method, 129
- Choy, C. L. and Young, K.: Thermal conductivity of semicrystalline polymers—a model, 769
- Choy, C. L.: Thermal conductivity of polymers, 984
- Choy, C. L.: *see* Chen, F. C., Poon, Y. M. and Choy, C. L.
- Clerici, P.: *see* Pegoraro, M., Penati, A. and Clerici, P.
- Cogswell, F. N.: *see* Blundell, D. J., Cogswell, F. N., Holdsworth, P. J. and Willmott, F. M.
- Coles, H. J.: A simple electric field birefringence cell, 554
- Coles, H. J. and Weill, G.: Relation between the initial slope of some electro-optic decays and the moments of the distribution of size, 1235
- Comyn, J. and Fernandez, R. A.: Trans-
- port of hydrogen in poly(vinylidene chloride-ethyl acrylate), 599
- Comyn, J.: *see* Brewis, D. M., Comyn, J. and Fowler, J. R.
- Conti, F., Delfini, M. and Segre, A. L.: <sup>13</sup>C n.m.r. studies of butadiene-styrene copolymers. A revised assignment, 310
- Cooper, D. R. and Booth, C.: Mixing of ethylene oxide and propylene oxide oligomers: 1. Enthalpy and volume changes, 164
- Cooper, D. R.: *see* Fraser, M. J., Cooper, D. R. and Booth, C.
- Cooper, D. R.: *see* Friday, A., Cooper, D. R. and Booth, C.
- Cosgrove, T. and Warren, R. F.: Diffusion and nuclear magnetic relaxation in concentrated polystyrene solutions, 255
- Cowd, M. A.: *see* Block, H., Cowd, M. A. and Walker, S. M.
- Cowden, D. R.: *see* Block, H., Cowden, D. R., Lord, P. W. and Walker, S. M.
- Cowie, J. M. G., Henshall, S. A. E., McEwen, I. J. and Veličković, J.: Poly(alkyl itaconates): 4. Glass and sub-glass transitions in the di-alkyl ester series, methyl to hexyl, 612
- Cox, M. K.: *see* Heatley, F., Begum, A. and Cox, M. K.
- Cox, M. K.: *see* Heatley, F. and Cox, M. K.
- Cudby, M. E. A.: *see* Chantry, G. W., Nicol, Elisabeth A., Jones, R. G., Willis, H. A. and Cudby, M. E. A.
- Cudby, M. E. A.: *see* Cutler, D. J., Hendra, P. J., Cudby, M. E. A. and Willis, H. A.
- Cunliffe, A. V., Richards, D. H. and Thompson, D.: An anionically prepared flexible adhesive: 4. Acrylonitrile modified adhesive, 514
- Cunliffe, A. V.: *see* Burgess, F. J., Cunliffe, A. V., Dawkins, J. V. and Richards, D. H.
- Cunliffe, A. V.: *see* Burgess, F. J., Cunliffe, A. V., MacCallum, J. R. and Richards, D. H.
- Cunningham, A.: *see* Ballard, D. G. H., Cunningham, A. and Schelten, J.
- Cutler, D. J., Hendra, P. J., Cudby, M. E. A. and Willis, H. A.: Chain branching in high pressure polymerized polyethylene, 1005
- Danusso, F., Ferruti, P., Moro, A., Tieghi, G. and Zocchi, M.: Structure and solid state photopolymerization of pentaerythritol tetracinnamate, 161
- Darlington, M. W., Gladwell, B. K. and Smith, G. R.: Structure and mechanical properties in injection moulded discs of glass fibre reinforced polypropylene, 1269
- Datta, P. K. and Pethrick, R. A.: Acoustic studies of heterophase systems: styrene-butadiene-styrene, 919
- Davenport, R. A. and Manuel, A. J.: A study of molecular motion in polycarbonate by broad line nuclear magnetic resonance, 557
- David, C., Camara, O. and Geuskens, G.: Effect of photodegradation on the rate of spherulitic growth of poly(ethylene glycol adipate), 198
- Davies, G. R.: *see* Brereton, M. G. and Davies, G. R.
- Davis, Anthony C.: Cyclic oligomers from ethylene glycol-adipic acid polycondensation, 305
- Dawkins, John V., Stone, Tadeusz and Yeaton, Graham: High performance g.p.c. with crosslinked polystyrene gels: influence of particle size distribution, 1179

- Dawkins, J. V.: *see* Burgess, F. J., Cunliffe, A. V., Dawkins, J. V. and Richards, D. H.
- De, Sadhan K.: *see* Mukhopadhyay, Rabin德拉, De, Sadhan K. and Chakraborty, S. N.
- de Candia, Francesco: *see* Pedemonte, Enrico; Alfonso, Giovanni Carlo; Dondero, Giovanni; de Candia, Francesco and Aaimo, Luigi
- De Chirico, A. and Sorta, E.: Orientation effects on a high *cis*-1,4-polybutadiene induced by shear rate in a capillary rheometer, 92
- Deffieux, Alain and Boileau, Sylvie: Anionic polymerization of ethylene oxide with cryptates as counterions, 1047
- Delfini, M.: *see* Conti, F., Delfini, M. and Segre, A. L.
- Delides, C. G. and Shepherd, I. W.: Crystallization in poly(dimethyl siloxane) networks formed by  $\gamma$ -irradiation, 97
- Delides, C. G. and Shepherd, I. W.: Effect of  $\gamma$ -irradiation on chemically cross-linked poly(dimethyl siloxane), della Fortuna, G., Oberrauch, E., Salvatori, T., Sorta, E. and Bruscone, M.: Polytereamide 6NT6: polycondensation kinetics, d.s.c. and n.m.r. studies of thermally treated samples, 269
- De Maeyer, L.: *see* Hendrix, J., Saleh, B., Gnädig, K. and De Maeyer, L.
- Deopura, B. L., Kumar, Vijay and Sinha, T. B.: Melting behaviour and crystalline, intermediate and amorphous phase in poly(ethylene terephthalate) fibres, 856
- Desborough, I. J. and Hall, I. H.: A comparison of published crystalline structures of poly(tetramethylene terephthalate), 825
- Dietz, R.: *see* Atkinson, Carole, M. L. and Dietz, R.
- D'Ilario, L. and Canella, M.: Unusual thermal energy transduction by means of composite membrane system, 206
- Disselhoff, Gabriele: *see* Braun, Dietrich and Disselhoff, Gabriele
- Djurner, K., Kubát, J. and Riddahl, M.: Influence of high injection moulding pressures on the engineering properties of linear polyethylene, 1068
- Dodgson, K. and Semlyen, J. A.: Studies of cyclic and linear poly(dimethyl siloxanes): 1. Limiting viscosity number-molecular weight relationship, 1265
- Dolinskaya, E. R.: *see* Khatchaturov, A. S., Dolinskaya, E. R., Prozenko, L. K., Abramenko, E. L. and Kormer, V. A.
- Dondero, Giovanni: *see* Pedemonte, Enrico; Alfonso, Giovanni Carlo; Dondero, Giovanni; de Candia, Francesco and Aaimo, Luigi
- Dondos, Anastasios: Polymers in mixed solvents: application of the new representation of viscosity data as a function of molecular weight, 1250
- Dondos, Anastasios and Benoit, Henri: A new representation of viscosity data as a function of molecular weight, 1161
- Dorrington, K. L., McCrum, N. G. and Watson, W. R.: Thermoelasticity of the poly(2-hydroxyethyl methacrylate) gel, 712
- Drioli, E.: *see* Nicolais, L., Drioli, E., Hopfenberg, H. B. and Tidone, D.
- Druz, N. N.: *see* Lobach, M. I., Poletayeva, I. A., Khatchaturov, A. S., Druz, N. N. and Kormer, V. A.
- Dunbar, J. H., North, A. M. and Pethrick, R. A.: Ultrasonic studies of solutions of styrene-butadiene block copolymers, 577
- Eastmond, G. C. and Smith, E. G.: Network properties: 3. A pulsed n.m.r. study of molecular motions in some AB-cross-linked polymers, 244
- Ebdon, J. R. and Heaton, P. E.: Characterization of urea-formaldehyde adducts and resins by  $^{13}\text{C}$  n.m.r. spectroscopy, 971
- Edward, Joyce M., Mulley, R. D., Pape, G. A., Booth, C. and Shepherd, I. N.: Raman scattering from the longitudinal acoustic mode of crystalline polyethylene swollen by oligomers of various molecular weights, 1190
- Eichinger, B. E.: *see* Huang, Yi-Chia and Eichinger, B. E.
- El-Din, Nabil M. Safy: *see* Abou-State, M. Amine; Fahmy, Adel M. and El-Din, Nabil M. Safy
- Elloway, H. F.: *see* Folkes, M. J., Elloway, H. F., O'Driscoll, G. M. M. and Keller, A.
- Elsom, John M.: *see* Bullock, Anthony T., Cameron, G. Gordon and Elsom, John M.
- Enomoto, Takamichi: *see* Tsuchihashi, Nobuaki; Enomoto, Takamichi; Hatano, Masahiro and Sohma, Junkichi
- Enscoe, D. J., Hopfenberg, H. B. and Stannett, V. T.: Effect of particle size on the mechanism controlling n-hexane sorption in glassy polystyrene microspheres, 793
- Enscoe, D. J., Hopfenberg, H. B., Stannett, V. T. and Berens, A. R.: Effect of prior sample history on n-hexane sorption in glassy polystyrene microspheres, 1105
- Epton, R., Marr, G. and Morgan, G. J.: Soluble polymer protein conjugates: 1. Reactive *N*-(sym-trinitroaryl) polyacrylamide/acrylydrazide copolymers and derived carbonic anhydrase conjugates, 319
- Epton, R., Hobson, M. E. and Marr, G.: Synthesis and properties of expanded poly(acryloyl morpholine)/carbonic anhydrase conjugates with catalytic activity in aqueous-organic media, 1203
- Epton, R.: *see* Brough, A. W. J., Epton, R., McLaren, J. V. and Marr, G.
- Evans, D.: *see* Block, H., Evans, D. and Walker, S. M.
- Fahmy, Adel M.: *see* Abou-State, M. Amine; Fahmy, Adel M. and El-Din, Nabil M. Safy
- Fakirov, S., Fischer, E. W., Hoffmann, R. and Schmidt, G. F.: Structure and properties of poly(ethylene terephthalate) crystallized by annealing in the highly oriented state: 2. Melting behaviour and the mosaic block structure of the crystalline layers, 1121
- Fanconi, Bruno: *see* Rabolt, John F. and Fanconi, Bruno
- Farrell, R. A.: *see* McCally, L. and Farrell, R. A.
- Fatou, J. G.: *see* Marco, C., Fatou, J. G. and Bello, A.
- Fatou, J. G.: *see* Riande, E., Fatou, J. G. and Alcazar, J. C.
- Faulkner, D. L., Hopfenberg, H. B. and Stannett, V. T.: Residual solvent removal and n-hexane sorption in blends of atactic and isotactic polystyrene, 1130
- Feasey, G. G.: *see* Attwood, T. E., Barr, D. A., Feasey, G. G., Leslie, V. J., Newton, A. B. and Rose, J. B.
- Fenner, R. T.: Developments in the analysis of steady screw extrusion of polymers, 617
- Fernandez, R. A.: *see* Comyn, J. and Fernandez, R. A.
- Ferruti, P., Martuscelli, E., Nicolais, L., Palma, M. and Riva, F.: Structural and mechanical properties of new block copolymers designed for biomedical use, 387
- Ferruti, P.: *see* Danusso, F., Ferruti, P., Moro, A., Tieghi, G. and Zocchi, M.
- Fetters, L. J. and Firer, E. M.: Partial chain coupling of anionically prepared polymers by air termination, 306
- Fielding-Russell, G. S. and Pillai, P. S.: Some optical and mechanical properties of an ABC triblock copolymer, styrene/butadiene/2-vinylpyridine and its hydrochloride salt, 859
- Fielding-Russell, G. S.: *see* Kimball, M. E. and Fielding-Russell, G. S.
- Figueroel, Juan E.: *see* Campos, Agustín and Figueruelo, Juan E.
- Firer, E. M.: *see* Fetters, L. J. and Firer, E. M.
- Fischer, E. W.: *see* Fakirov, S., Fischer, E. W., Hoffmann, R. and Schmidt, G. F.
- Flory, P. J.: *see* Yoon, D. Y. and Flory, P. J.
- Folkes, M. J., Elloway, H. F., O'Driscoll, G. M. M. and Keller, A.: Oriented macrolattice in a polystyrene-polybutadiene block copolymer of high polystyrene content, 960
- Forget, J.-L.: *see* Price, C., Forget, L.-L. and Booth, C.
- Foti, S.: *see* Bruno, G., Foti, S., Maravigna, P., Montaudo, G. and Przybylski, M.
- Fowler, J. R.: *see* Brewis, D. M., Comyn, J. and Fowler, J. R.
- Frank, W.: *see* Grossmann, H. P. and Frank, W.
- Fraser, M. J., Marshall, A. and Booth, C.: Crystallization of  $\alpha,\omega$ -ethoxy-poly(ethylene oxide), 93
- Fraser, M. J., Cooper, D. R. and Booth, C.: Crystallinity and fusion of low molecular weight poly(ethylene oxide): effect of end-group, 852
- French, A. D. and Murphy, V. G.: Intramolecular changes during polymorphic transformations of amylose, 489
- Friday, A., Cooper, D. R. and Booth, C.: Mixing of ethylene oxide and propylene oxide oligomers: 2. Phase separation, 171
- Froix, Michael, F., Pochan, John; Goedde, Andreas and Hinman, Darlyn: A dynamic characterization via relaxation techniques of the shell membranes of the domesticated fowl (*gallus/gallus(L.)*)
- Fuyama, Hiroshi: *see* Higashimura, Toshinobu; Sisido, Masahiko and Fuyama, Hiroshi
- Gabbay, S. M.: *see* Stivala, S. S. and Gabbay, S. M.
- Galin, J. C.: *see* Bourguignon, J. J., Bellissent, H. and Galin, J. C.
- Gallegos, A.: *see* Angulo-Sánchez, J. L., Gallegos, A., Ponce-Vélez, M. A. and Campos-López, E.
- Gan, S. N.: *see* Burfield, D. R. and Gan, S. N.
- Garduno, Ramon: *see* Nir, Shlomo; Garduno, Ramon; Rein, Robert and MacElroy Nasa-Ames, Robert D.
- Gargallo, Ligia: *see* Radic, Deodato; Boys, Daphne and Gargallo, Ligia
- Garner, David P.: *see* Seymour, Raymond, B., Garner, David P., Stahl, G. A., Knapp, Roger and Sanders, L. J.

## Author Index

- Garrington, David C.: *see* Beevers, Martin, S., Garrington, David C. and Williams, Graham
- Geuskens, G.: *see* David, C., Camara, O. and Geuskens, G.
- Gilmour, I. W. and Hay, J. N.: Determination of the specific heat of polystyrene by d.s.c., 281
- Gladwell, B. K.: *see* Darlington, M. W., Gladwell, B. K. and Smith, G. R.
- Glenz, W., Kilian, H. G., Klattenhoff, D. and Stracke, Fr.: Thermodynamics of the melting of pseudoeutectic linear copolymer systems, 685
- Gnädig, K.: *see* Hendrix, J., Saleh, B., Gnädig, K. and De Maeyer, L.
- Goedde, Andreas: *see* Froix, Michael F., Pochan, John; Goedde, Andreas and Hinman, Darlyn
- Goedhard, D. J.: *see* van Krevelen, D. W., Goedhard, D. J. and Hoftijzer, P. J.
- Goel, Rajeev; Kumar, Anil and Gupta, Santosh K: Effect of chain length and branching on the interaction energies of polymer molecules, 201
- Goel, Rajeev; Gupta, Santosh, K. and Kumar, Anil: Rate of condensation polymerization for monomers having reactivities different from their polymers, 851
- Gogolewski, S.: A possible mechanism of chain extension in nylon-6 during crystallization under pressure, 63
- Gogolewski, S. and Pennings, A. J.: Crystallization of polyamides under elevated pressure 3: The morphology and structure of pressure-crystallized nylon-6 (polycapramide), 647. 4. Annealing of nylon-6 (polycapramide) under pressure, 654. 5. Pressure-induced crystallization from the melt and annealing of folded-chain crystals of nylon-11, poly(aminoundecaneamide) under pressure, 660
- Goldberg, R. A.: *see* Beamish, A., Goldberg, R. A. and Hourston, D. J.
- Goodell, Estelle: *see* Ottenbrate, Raphael; Goodell, Estelle and Munson, Albert
- Gordon, Gerald A.: Visual evidence of clustering of water in glassy polymers, 958
- Greig, J. A., MacKenzie, W. M. and Sherrington, D. C.: Apparatus for the manipulation of polymer supported reagents, 1291
- Grodzinsky, A. J. and Shoenfeld, N. A.: Tensile forces induced in collagen by means of electromechanochemical transductive coupling, 435
- Grossmann, H. P. and Frank, W.: Calculation of the f.i.r. absorption frequencies of polyethylene using a proved semiempirical potential function, 341
- Guhaniyogi, S., Ivin, K. J. and Lillie, E. D.: Detection of end-groups and estimation of molecular weights of polyiminoalkenes by  $^{13}\text{C}$  n.m.r. spectroscopy, 345
- Gupta, Santosh K: *see* Goel, Rajeev; Kumar, Anil and Gupta, Santosh K.
- Gupta, Santosh, K.: *see* Goel, Rajeev; Gupta, Santosh, K. and Kumar, Anil.
- Gupta, V. K.: *see* Khan, H. U., Bhargava, G. S. and Gupta, V. K.
- Guthrie, James T. and Hardcastle, S. V.: The solution and regeneration of cellulose using novel solvent systems, 203
- Guthrie, J. T., Huglin, M. B. and Phillips, G. O.: Examination of a cellulose tricarbanilate-polystyrene copolymer produced by radiation grafting, 521
- Guthrie, J. T. and Percival, J. A.: An investigation of the thermal properties of cellulose tricarbanilate-polystyrene graft copolymers, 531
- Haase, J., Hosemann, R. and Čačković, H.: Mosaic blocks in polymer crystals—the concept of paracrystallinity, 743
- Hadjichristidis, Nikos: *see* Kokkialis, Dionysis and Hadjichristidis, Nikos
- Hadjichristidis, N.: *see* Nieuwelt, J. and Hadjichristidis, N.
- Hall, I. H.: *see* Desborough, I. J. and Hall, I. H.
- Hamada, Fumiuki: *see* Hayashi, Hisao; Hamada, Fumiuki and Nakajima, Akio
- Haraguchi, T.: *see* Hatakeyama, H., Hayashi, E. and Haraguchi, T.
- Hardcastle, S. V.: *see* Guthrie, James T. and Hardcastle, S. V.
- Hartley, A. J., Leung, Y.-K., McMahon, J., Booth, C. and Shepherd, I. W.: Raman scattering from mixtures of poly(ethylene oxide) 2000 with poly(ethylene oxide) 200, 336
- Hasegawa, Etsuo; Inamoto, Tadayoshi and Tsuchida, Eishun: Reduction of ferri-protoporphyrin IX dimethyl ester by the 1,2-dihydropyridine type redox resin, 955
- Hatakeyama, H., Hayashi, E. and Haraguchi, T.: Biodegradation of poly(3-methoxy-4-hydroxy styrene), 759
- Hatano, Masahiro: *see* Tsuchihashi, Nobuaki; Enomoto, Takamichi; Hatano, Masahiro and Sohma, Junkichi
- Haward, R. N.: *see* Smith, K. and Haward, R. N.
- Hay, J. N.: *see* Gilmour, I. W. and Hay, J. N.
- Hayakawa, T., Matsuyama, M. and Inouye, K: Poly(S-alkyl-L-cysteines) containing long aliphatic side chains, 854
- Hayakawa, Tadao: *see* Kondo, Yoshiyuki; Iizuka, Eisaku; Oka, Atsuko and Hayakawa, Tadao
- Hayakawa, Tadao: *see* Yamamoto, Hiroyuki and Hayakawa, Tadao
- Hayakawa, T.: *see* Yamamoto, H., Inouye, K. and Hayakawa, T.
- Hayashi, Hisao; Hamada, Fumiuki and Nakajima, Akio: Small-angle X-ray scattering study on polymer chain dimensions in concentrated solutions in a  $\theta$ -solvent, 638
- Hayashi, E.: *see* Hatakeyama, H., Hayashi, E. and Haraguchi, T.
- Hayes, G. F. and Young, R. N.: Polymerization and copolymerization of vinyl-ferrocene in the presence of lithium and n-butyllithium, 1286
- Heatley, F. and Cox, M. K.: Proton spin-lattice relaxation in vinyl polymers, 225
- Heatley, F., Begum, A. and Cox, M. K.: Proton spin-lattice relaxation in poly(vinyl acetate) in solution, 637
- Heaton, P. E.: *see* Ebdon, J. R. and Heaton, P. E.
- Heidemann, E., Neiss, H. G., Khodadadeh, K., Heymer, G. and Sheikh, E. M.: Structural studies of collagen-like sequential polypeptides, 420
- Heikens, D. and Barentsen, W.: Particle dimensions in polystyrene/polyethylene blends as a function of their melt viscosity and of the concentration of added graft copolymer, 69
- Hendra, P. J. and Marsden, E. P.: On structural transitions in polyethylene, 414
- Hendra, P. J. and Majid, H. A.: Longitudinal acoustic vibrations in polyethers and polythioethers, 573
- Hendra, P. J.: *see* Cutler, D. J., Hendra, P. J., Cudby, M. E. A. and Willis, H. A.
- Hendrix, J., Saleh, B., Gnädig, K. and De Maeyer, L.: Measurement of the intramolecular fluctuations of random coil polymers by photon correlation spectroscopy, 10
- Henshall, S. A. E.: *see* Cowie, J. M. G., Henshall, S. A. E., McEwen, I. J. and Velicković, J.
- Hettiarachchi, S.: *see* Mendis, L. P., Pemawansa, K. P. W. and Hettiarachchi, S.
- Heymer, G.: *see* Heidemann, E., Neiss, H. G., Khodadadeh, K., Heymer, G. and Sheikh, E. M.
- Hibi, Sadao; Maeda, Matsuo; Kubota, Hisao and Miura, Teruo: Molecular orientation behaviour of uniaxially stretched poly(vinyl chloride) film: 1. Birefringence: effect of plasticizers and draw ratio above and below  $T_g$ , 137. 2. The fourth moment of molecular orientation measured by the polarized fluorescence method, 143
- Hibi, S., Maeda, M. and Kubota, H.: Molecular orientation behaviours of uniaxially stretched poly(vinyl chloride) film: 3. Effect of molecular orientation on anisotropy of Young's modulus in uniaxially stretched poly(vinyl chloride) film, 801
- Higashimura, Toshinobu; Sisido, Masahiko and Fuyama, Hiroshi: Polycondensation of N-acetyl-D-glucosamine and structure of poly(N-acetyl-D-glucosamine), 291
- Hinman, Darlyn: *see* Froix, Michael F., Pochan, John; Goedde, Andreas and Hinman, Darlyn
- Hirayama, Chuichi; Honda Takahashi, and Motozato, Yoshiaki: Network of  $\gamma$ -irradiated poly(vinyl alcohol) beads, 1227
- Hirohashi, R., Toda, Y. and Hishiki, Y.: Photoconduction of aliphatic poly-rhodanines, 601
- Hishiki, Y.: *see* Hirohashi, R., Toda, Y. and Hishiki, Y.
- Hlaváček, B. and Patterson, I.: A simple model for non-linear stress relaxation, 251
- Hobson, M. E.: *see* Epton, R., Hobson, M. E. and Marr, G.
- Hoffmann, R.: *see* Fakirov, S., Fischer, E. W., Hoffmann, R. and Schmidt, G. F.
- Hoftijzer, P. J.: *see* van Krevelen, D. W., Goedhard, D. J. and Hoftijzer, P. J.
- Holdsworth, P. J.: *see* Blundell, D. J., Cogswell, F. N., Holdsworth, P. J. and Willmouth, F. M.
- Honda, Takahashi: *see* Hirayama, Chuichi; Honda, Takahashi and Motozato, Yoshiaki
- Hopfenberg, H. B.: *see* Enscore, D. J., Hopfenberg, H. B. and Stannett, V. T.
- Hopfenberg, H. B.: *see* Enscore, D. J., Hopfenberg, H. B., Stannett, V. T. and Berens, A. R.
- Hopfenberg, H. B.: *see* Faulkner, D. L., Hopfenberg, H. B. and Stannett, V. T.
- Hopfenberg, H. B.: *see* Nicolais, L., Drioli, E., Hopfenberg, H. B. and Tidone, D.
- Hori, Yasuro; Shimada, Shigetaka and Kashiwabara, Hisatsugu: E.s.r. studies on oxidation processes in irradiated polyethylene: 1. Diffusion of oxygen

- into amorphous part at low temperatures, 151. E.s.r. studies of peroxy radicals in polyethylene: 1. Temperature dependence of spectra and molecular motion of radical sites, 567. 2. Peroxy radicals in urea-polyethylene complexed, 1143
- Hori, Yasuro: *see* Shimada, Shigetaka; Hori, Yasuro and Kashiwabara, Hisatsugu
- Hori, Yasuro: *see* Shimada, Shigetaka; Maeda, Masatoshi; Hori, Yasuro and Kashiwabara, Hisatsugu
- Hosemann, R.: *see* Hasse, J., Hosemann, R. and Čačković, H.
- Hourston, D. J. and Hughes, I. D.: Poly(vinylidene fluoride)-poly-(methyl methacrylate) blends, 1175
- Hourston, D. J.: *see* Beamish, A., Goldberg, R. A. and Hourston, D. J.
- Huang, Yi-Chia and Eichinger, B. E.: Flow microcalorimetry on dilute polymer solutions, 55
- Hughes, I. D.: *see* Hourston, D. J. and Hughes, I. D.
- Huglin, M. B.: *see* Guthrie, J. T., Huglin, M. B. and Phillips, G. O.
- Humphrey, M. J.: *see* Ayrey, G.; Humphrey, M. J. and Poller, R. C.
- Iguchi, Masatoshi and Watanabe, Yasushi: Oriented overgrowth crystallization on needle shaped polyoxymethylene single crystals from molten polymers, 265
- Iizuka, Eisaku: *see* Kondo, Yoshiyuki; Iizuka, Eisaku; Oka, Atsuko and Hayakawa, Tadao
- Illers, K. H.: Glass transition and cold crystallization in 'even' and 'odd'  $\omega$ -amino-acid polyamides, 551
- Imai, Yasufumi and Brown, Norman: Tensile deformation of polychlorotrifluoroethylene in He, N<sub>2</sub>, Ar, O<sub>2</sub> and CO<sub>2</sub> environments, 298
- Inamoto, Tadayoshi: *see* Hasegawa, Etsuo; Inamoto, Tadayoshi and Tsuchida, Eishun
- Inoue, Shohei: *see* Akaike, Toshihiro and Inoue, Shohei
- Inouye, K.: *see* Hayakawa, T., Matsuyama, M. and Inouye, K.
- Inouye, K.: *see* Yamamoto, H., Inouye, K. and Hayakawa, T.
- Ishizuka, O. and Koyama, K.: Crystallization of running filament in melt spinning of polypropylene, 913
- Israel, S. C.: *see* Salamone, J. C., Volksen, W., Israel, S. C., Olson, A. P. and Raia, D. C.
- Itoh, Yutaka: *see* Kambe, Hirotaro; Watanabe, H., Nagatomo, S. and Itoh, Yutaka
- Ivin, K. J.: *see* Guhaniyogi, S., Ivin, K. J. and Lillie, E. D.
- Jarecki, Leszek and Ziabicki, Andrzej: Thermodynamically controlled crystal orientation in stressed polymers: 1. Effects of strain energy of crystals embedded in an uncrosslinked amorphous matrix and hydrodynamic potential, 1015
- Jeffs, G. M. F.: *see* Aitken, R. R. and Jeffs, G. M. F.
- Jemmett, John A. L.: *see* Bevington, John C., Jemmett, John A. L. and Onyon, Peter F.
- Johnson, J. F.: *see* Wu, C. B., Sheth, P. J. and Johnson, J. F.
- Johnson, Julian F.: *see* Sheth, Pares J., Johnson, Julian F. and Porter, Roger S.
- Jones, R. G.: *see* Chantry, G. W., Nicol, Elisabeth A., Jones, R. G., Willis, H. A. and Cubdy, M. E. A.
- Kaelble, D. H. and Moacanin, Jovan: A surface energy analysis of bioadhesion, 475
- Kajiwara, M. and Saito, H.: Phosphonitrilic chloride: 36. Electrical conductivity of dichlorocyclophosphazene trimer and dichlorophosphazene polymer, 351
- Kajiwara, M., Makihara, M. and Saito, Hajime: Phosphonitrilic chloride: 37. Reaction of 1,1-diamino-3,3,5,5-tetrakis(2,2,2-trifluoroethoxy) cyclo-triphosphazene with organosilanes, 1045
- Kalpagam, V.: *see* Rami Reddy, C., Kashyap, A. K. and Kalpagam, V.
- Kalpagam, V.: *see* Kashyap, A. K., Kalpagam, V. and Rami Reddy, C.
- Kambe, Hirotaro; Watanabe, H., Nagatomo, S. and Itoh, Yutaka: Degradation of poly(methyl methacrylate) by flash irradiation, 1063
- Kaneko, Motozo: *see* Saeki, Susumu; Kuwahara, Nobuhiro; Nakatu, Mitsuo and Kaneki Motozo
- Kanesaka, Junichiro: *see* Ree, Kei; Yanagida, Masaru; Kanesaka, Junichiro and Minoura, Yuji
- Karasz, F. E.: *see* Alexandrovich, P., Karasz, F. E. and MacKnight, W. J.
- Karger-Kocsis, J.: *see* Szafner, A. and Karger-Kocsis, J.
- Kashiwabara, Hisatsugu: *see* Hori, Yasuro; Shimada, Shigetaka and Kashiwabara, Hisatsugu
- Kashiwabara, Hisatsugu: *see* Shimada, Shigetaka; Hori, Yasuro and Kashiwabara, Hisatsugu
- Kashiwabara, Hisatsugu: *see* Shimada, Shigetaka; Maeda, Masatoshi; Hori, Yasuro and Kashiwabara, Hisatsugu
- Kashyap, A. K., Kalpagam, V. and Rami Reddy, C.: Dilute solution properties of methyl methacrylate-acrylonitrile copolymer (MA1), 878
- Kashyap, A. K.: *see* Rami Reddy, C., Kashyap, A. K. and Kalpagam, V.
- Katakai, R. and Nakayama, Y.: Critical chain length for the formation of the  $\alpha$ -helix in the solid state: synthesis and conformation of sequential oligopeptides and polypeptide having L-leucyl-L-leucylglycine sequence, 755
- Keller, A.: *see* Folkes, M. J., Elloway, H. F., O'Driscoll, G. M. M. and Keller, A.
- Kettle, Graham J.: Variation of the glass transition temperature of nylon-6 with changing water content, 742
- Khan, H. U., Bhargava, G. S. and Gupta, V. K.: Molecular weight of SAN copolymers, values of the constants for viscometric determination, 959
- Khatchaturov, A. S., Dolinskaya, E. R., Prozenko, L. K., Abramenko, E. L. and Kormer, V. A.:  $^{13}\text{C}$  n.m.r. determination of units formed by irregular addition in polyisoprene, 871
- Khatchaturov, A. S.: *see* Lobach, M. I., Poletayeva, I. A., Khatchaturov, A. S., Druz, N. N. and Kormer, V. A.
- Khodadadeh, K.: *see* Heidemann, E., Neiss, H. G., Khodadadeh, K., Heymer, G. and Sheikh, E. M.
- Kikuchi, Kazuo: *see* Takakusaki, Katsumi; Kikuchi, Kazuo and Yoshioka, Koshiro
- Kilian, H. G.: *see* Glenz, W., Kilian, H. G., Klattenhoff, D. and Stracke, Fr.
- Kimball, M. E. and Fielding-Russell, G. S.: Effect of cure temperature on urethane networks, 777
- Kimmich, R.: Molecular motion in polymer melts: 1. Description by components and n.m.r. relaxation behaviour, 233
- Kimmich, R. and Schmauder, K.H.: Molecular motion in polymer melts: 2. Interpretation of relaxation data of poly(ethylene oxide), 239
- King, T.: *see* Attwood, T. E., Barr, D. A., King, T., Newton, A. B. and Rose, J. B.
- King, T.: *see* Attwood, T. E., King, T., McKenzie, I. D. and Rose, J. B.
- King, T.: *see* Attwood, T. E., King, T., Leslie, V. J. and Rose, J. B.
- Klattenhoff, D.: *see* Glenz, W., Kilian, H. G., Klattenhoff, D. and Stracke, Fr.
- Knapp, Roger: *see* Seymour, Raymond B., Garner, David P., Stahl, G. A., Knapp, Roger and Sanders, L. J.
- Koenig, J. L.: *see* Painter, P. C., Watzek, M. and Koenig, J. L.
- Kokkari, Dionysis and Hadjichristidis, Nikos: Chain flexibility of poly(phenyl thiolmethacrylate), 639
- Kondo, Yoshiyuki; Iizuka, Eisaku; Oka, Atsuko and Hayakawa, Tadao: Circular dichroism of poly( $\beta$ -benzyl-L-aspartate) films in the  $\alpha$ , $\beta$ , and  $\omega$  conformations, 111
- Kormer, V. A.: *see* Khatchaturov, A. S., Dolinskaya, E. R., Prozenko, L. K., Abramenko, E. L. and Kormer, V. A.
- Kormer, V. A.: *see* Lobach, M. I., Poletayeva, I. A., Khatchaturov, A. S., Druz, N. N. and Kormer, V. A.
- Koyama, K.: *see* Ishizuka, O. and Koyama, K.
- Krey, Anne K.: Oligopeptide antibiotic distamycin A and its interactions with duplex DNA, 495
- Kubát, J.: *see* Djurner, K., Kubát, J. and Rigidahl, M.
- Kubota, H.: *see* Hibi, S., Maeda, M. and Kubota, H.
- Kubota, Hisao: *see* Hibi, Sadao; Maeda, Matsu; Kubota, Hisao and Miura, Teruo
- Kuhlmann, R. and Schnabel, W.: Flash photolysis investigation on primary processes of the sensitized polymerization of vinyl monomers: 2. Experiments with benzoin and benzoin derivatives,
- Kumar, Anil: *see* Goel, Rajeev; Kumar, Anil and Gupta, Santosh K.
- Kumar, Anil: *see* Goel, Rajeev; Gupta, Santosh, K. and Kumar, Anil
- Kumar, Vijay: *see* Deopura, B. L., Kumar, Vijay and Sinha, T. B.
- Kusy, R. P. and Turner, D. T.: Influence of the molecular weight of poly(methyl methacrylate) on fracture morphology in notched tension, 391
- Kuwahara, Nobuhiro: *see* Saeki, Susumu; Kuwahara, Nobuhiro; Nakatu, Mitsuo and Kaneko, Motozo
- LaPointe, Diane: *see* Twining, Sally S., LaPointe, Diane and Brecher, Arthur S.
- Latour, M.: Infra-red analysis of poly(vinylidene fluoride) thermoelectrets, 278
- Lau, W. W. Y.: *see* Rudin, A., Wagner, R. A., Chee, K. K., Lau, W. W. Y. and Burns, C. M.

## Author Index

- Leclercq, B., Sotton, M., Baszkin, A. and Ter-Minassian-Saraga, L.: Surface modification of corona treated poly(ethylene terephthalate) film: adsorption and wettability studies, 675
- Le Poidevin, G. J.: *see* Blackadder, D. A. and Le Poidevin, G. J.
- Leslie, V. J.: *see* Attwood, T. E., Barr, D. A., Feasey, G. G., Leslie, V. J., Newton, A. B. and Rose, J. B.
- Leslie, V. J.: *see* Attwood, T. E., King, T. Leslie, V. J. and Rose, J. B.
- Leung, Y.-K.: *see* Hartley, A. J., Leung, Y.-K., McMahon, J., Booth, C. and Shepherd, I. W.
- Leyte, J. C.: *see* Schriever, J. and Leyte, J. C.
- Lillie, E. D.: *see* Guhaniyogi, S., Ivin, K. J. and Lillie, E. D.
- Lindsay, S. M., Adshead, Alan and Shepherd, I. W.: Multiple hypersonic relaxations and the  $\alpha$ -transition in poly(dimethyl siloxane), 862
- Lipp, D. W. and Vogl, O.: Haloaldehyde polymers: 11. Polybromal, 1051
- Lobach, M. I., Poletayeva, I. A., Khatchaturov, A. S., Druz, N. N. and Kormer, V. A.: Distribution of monomer units in butadiene-isoprene copolymers, 1196
- Longman, G. W.: *see* Schelten, J., Wignall, G. D., Ballard, D. G. H. and Longman, G. W.
- Lord, P. W.: *see* Block, H., Cowden, D. R., Lord, P. W. and Walker, S. M.
- Loucheux, C.: *see* Morcellet, M. and Loucheux, C.
- MacCallum, J. R.: *see* Burgess, F. J., Cunliffe, A. V., MacCallum, J. R. and Richards, D. H.
- McCally, L. and Farrell, R. A.: Effect of transcorneal pressure on small-angle light scattering from rabbit cornea, 444
- McCrum, N. G.: *see* Dorrington, K. L., McCrum, N. G. and Watson, W. R.
- MacElroy Nasa-Ames, Robert D.: *see* Nir, Shlomo; Garduno, Ramon; Rein, Robert and MacElroy Nasa-Ames, Robert D.
- McEwen, I. J.: *see* Cowie, J. M. G., Henshall, S. A. E., McEwen, I. J. and Veličković, J.
- McInnes, Donald A. and North, Alastair M.: Dynamics of polymer molecules: a comparison of strongly coupled correlated (internal viscosity) and non-correlated (local mode) models for molecular weight independent conformational relaxation, 505
- McKellar, J. F.: *see* Allen, N. S. and McKellar, J. F.
- McKenzie, I. D.: *see* Attwood, T. E., King, T., McKenzie, I. D. and Rose, J. B.
- MacKenzie, W. M.: *see* Greig, J. A.; MacKenzie, W. M. and Sherrington, D. C.
- MacKnight, W. J.: *see* Alexandrovich, P., Karasz, F. E. and MacKnight, W. J.
- McLaren, J. V.: *see* Brough, A. W. J., Epton, R., McLaren, J. V. and Marr, G.
- McMahon, J.: *see* Hartley, A. J., Leung, Y.-K., McMahon, J., Booth, C. and Shepherd, I. W.
- McRae, Margaret A. and Maddams, William F.: X-ray diffraction crystallinity measurements on mixtures of polyethylene and atactic polystyrene, 524
- Maddams, William F.: *see* McRae, Margaret A. and Maddams, William F.
- Maeda, M.: *see* Hibi, S., Maeda, M. and Kubota, H.
- Maeda, Matsuo: *see* Hibi, Sadao; Maeda, Matsuo; Kubota, Hisao and Miura, Teruo
- Maeda, Masatoshi: *see* Shimada, Shigetaka; Maeda, Masatoshi; Hori, Yasuō and Kashiwabara, Hisatsugu
- Magill, J. H.: *see* Okui, N. and Magill, J. H.
- Magoshi, J.: Physical properties and structure of silk: 4. Spherulites grown from aqueous solutions of silk fibroin, 643
- Majid, H. A.: *see* Hendra, P. J. and Majid, H. A.
- Makaya, G.: Multiple relaxations in small-molecule solids, 1231
- Makihara, M.: *see* Kajiwara, M., Makihara, M. and Saito, Hajime
- Mancarella, Carlo and Martuscelli, Ezio: Crystallization kinetics of poly(vinylidene fluoride), 1240
- Mandema, W. and Zeldenrust, H.: Diffusion of polystyrene in tetrahydrofuran, 835
- Manuel, A. J.: *see* Davenport, R. A. and Manuel, A. J.
- Maravigna, P.: *see* Bruno, G., Foti, S., Maravigna, P., Montaudo, G. and Przybylski, M.
- Marco, C., Fatou, J. G. and Bello, A.: Effect of molecular weight on the crystallization kinetics of poly(hexamethylene oxide), 1100
- Marr, G.: *see* Brough, A. W. J., Epton, R., McLaren, J. V. and Marr, G.
- Marr, G.: *see* Epton, R., Hobson, M. E. and Marr, G.
- Marr, G.: *see* Epton, R., Marr, G. and Morgan, G. J.
- Marsden, E. P.: *see* Hendra, P. J. and Marsden, E. P.
- Marshall, A.: *see* Fraser, M. J., Marshall, A. and Booth, C.
- Martuscelli, Ezio; Pracella, Mariano and Pirozzi, Mario: Annealing of solution-grown single crystals of ethylene-butadiene copolymers, 887
- Martuscelli, E.: *see* Cavallo, P.; Martuscelli, E. and Pracella, M.
- Martuscelli, E.: *see* Ferruti, P., Martuscelli, E., Nicolais, L., Palma, M. and Riva, F.
- Martuscelli, Ezio: *see* Mancarella, Carlo and Martuscelli, Ezio
- Matsuyama, M.: *see* Hayakawa, T., Matsuyama, M. and Inouye, K.
- Mauzac, M., Vairon, J. P. and Sigwalt, P.:  $^{13}\text{C}-\text{H}$  n.m.r. determination of the microstructure of poly(butene-1),
- Mazur, K.: Changes in electric conductivity during the process of methyl methacrylate polymerization, 409
- Mendis, L. P., Pemawansa, K. P. W. and Hettiarachchi, S.: Electrochemical initiation in methyl methacrylate-natural rubber latex systems, 100
- Meyer, G. C.: *see* Widmaier, J. M. and Meyer, G. C.
- Mijnlieff, P. F.: *see* Wiegel, F. W. and Mijnlieff, P. F.
- Minoura, Yuji: *see* Ree, Keiu; Yanagida, Masaru; Kanesaka, Junichiro and Minoura, Yuji
- Mirabella, F. M. Jr.: Monte Carlo simulation of copolymerization and compositional inhomogeneity of copolymers: comparison to experimental data, 705
- Mirabella, F. M. Jr.: Monte Carlo simulation of terpolymerization, 925
- Miura, Teruo: *see* Hibi, Sadao; Maeda, Matsuo; Kubota, Hisao and Miura, Teruo
- Moacanin, Jovan: *see* Kaelble, D. H. and Moacanin, Jovan
- Montaudo, G.: *see* Bruno, G., Foti, S., Maravigna, P., Montaudo, G. and Przybylski, M.
- Moore, John C.: *see* Ramsden, David K.
- and Moore, John C.
- Morcellet, M. and Loucheux, C.: Effect of organic solvents on the stability of poly(L-glutamic acid)  $\alpha$ -helix, 1082
- Morgan, G. J.: *see* Epton, R., Marr, G. and Morgan, G. J.
- Morgan, G. P. and Ward, I. M.: Temperature dependence of craze shape and fracture in poly(methyl methacrylate), 87
- Mori, T., Tanaka, R. and Tanaka, T.: Heterogeneous network polymers: 7. Cholesteric liquid crystal structure of poly(glutamic acid) fixed by crosslinking, 1041
- Moro, A.: *see* Danusso, F., Ferruti, P., Moro, A., Tieghi, G. and Zocchi, M.
- Motozato, Yoshiaki: *see* Hirayama, Chuichi; Honda, Takahashi, and Motozato, Yoshiaki
- Mukherjea, R. N. and Bandyopadhyay, A. K.: Effect of reaction variables on oxidative polymerization of 1-naphthol using Cu<sup>1+</sup>-pyridine catalyst, 1081
- Mukhopadhyay, Rabindra; De, Sadhan K. and Chakraborty, S. N.: Effect of vulcanization temperature and vulcanization systems on the structure and properties of natural rubber vulcanizates, 1243
- Mulley, R. D.: *see* Edward, Joyce M., Mulley, R. D., Pape, G. A., Booth, C. and Shepherd, I. W.
- Muñoz-Escalona, A. and Villalba, J.: Polymerization of propylene by the Ziegler catalyst systems  $\alpha$ -TiCl<sub>3</sub>/Al(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub> and supported TiCl<sub>4</sub>/Al(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>, 179
- Munson, Albert: *see* Ottenbrite, Raphael; Goodell, Estelle and Munson, Albert
- Murphy, V. G.: *see* French, A. D. and Murphy, V. G.
- Nagatomo, S.: *see* Kambe, Hirotaro; Watanabe, H., Nagatomo, S. and Itoh, Yutaka
- Nakajima, Akio: *see* Hayashi, Hisao; Hamada, Fumiuki and Nakajima, Akio
- Nakatu, Mitsu: *see* Saeki, Susumu; Kuwahara, Nobuhiro; Nakatu, Mitsu and Kaneko, Motozo
- Nakayama, Y.: *see* Katakai, R. and Nakayama, Y.
- Nanjan, M. J., Balasubramaniam, M., Srinivasan, K. S. V. and Santappa, M.: Synthesis of poly{2,2 bis[4(*p*-aminophenoxy)phenyl] propane-terephthalic acid}, 411
- Nasrallah, Elias and Baylouzian, Sara: Structure and polymerization conditions of poly(methyl vinyl ketone), 1173
- Neiss, H. G.: *see* Heidenmann, E., Neiss, H. G., Khodadadeh, K., Heymer, G. and Sheikholeslami, E. M.
- Newton, A. B.: *see* Attwood, T. E., Barr, D. A., Feasey, G. G., Leslie, V. J., Newton, A. B. and Rose, J. B.
- Newton, A. B.: *see* Attwood, T. E., Barr, D. A., King, T., Newton, A. B. and Rose, J. B.
- Nicol, Elisabeth A.: *see* Chantry, G. W., Nicol, Elisabeth A., Jones, R. G., Willis, H. A. and Cudby, M. E. A.
- Nicolais, L., Drioli, E., Hopfenberg, H. B. and Tidone, D.: Characterization and effects of n-alkane swelling of polystyrene sheets, 1137
- Nicolais, L.: *see* Ferruti, P., Martuscelli, E., Nicolais, L., Palma, M. and Riva, F.
- Niezette, J. and Hadjichristidis, N.: Solution properties and chain flexibility of poly-(2-chlorophenyl methacrylate), 200

- Nir, Shlomo; Garduno, Ramon; Rein, Robert and MacElroy Nasa-Ames, Robert D.: Simulation and display of macromolecular complexes, 431
- Nir, S.: see Andersen, M., and Nir, S.
- North, Alastair, M., Pethrick, Richard A. and Phillips, David W.: Ultrasonic studies of solid poly(alkyl methacrylates), 324
- North, A. M.: see Dunbar, J. H., North, A. M. and Pethrick, R. A.
- North, Alastair, M.: see McInnes, Donald A. and North, Alastair M.
- Nyström, B. and Roots, J.: Effect of concentration and temperature on the partial specific volume of a polystyrene sample in *trans*-decalin, 221
- Oberrauch, E.: see della Fortuna, G., Oberrauch, E., Salvatori, T., Sorta, E. and Bruzzone, M.
- O'Donnell, J. H.: see Bowmer, T. N. and O'Donnell, J. H.
- O'Driscoll, G. M. M.: see Folkes, M. J., Elloway, H. F., O'Driscoll, G. M. M. and Keller, A.
- Oka, Atsuko: see Kondo, Yoshiyuki; Iizuka, Eisaku; Oka, Atsuko and Hayakawa, Tadao
- Okui, N. and Magill, J. H.: Studies of the chemical degradation of polysiloxanes by hydrofluoric acid: 2. Poly(tetramethyl-*p*-silphenylene siloxane-dimethyl siloxane) block copolymers, 845. Crystallinity of poly(tetramethyl-*p*-silphenylenesiloxane) and (tetramethyl-*p*-silphenylenesiloxane)-(dimethyl siloxane) copolymers, 1152
- Olson, A. P.: see Salamone, J. C., Volksen, W., Israel, S. C., Olson, A. P. and Raia, D. C.
- Onder, K., Peters, R. H. and Spark, L. C.: Crystallization phenomena in some polyester-urethanes, 155
- Ono, Akihisa: see Sato, Hisaya; Ono, Akihisa; and Tanaka, Yasuyuki
- Onyon, Peter F.: see Bevington, John C., Jemmett, John A. L. and Onyon, Peter F.
- Orhan, E. H., Yilgor, I. and Baysal, B. M.: Block polymers from poly(ethylene oxide) and styrene, 286
- Ottenbrite, Raphael; Goodell, Estelle and Munson, Albert: A comparative study of antitumour and toxicologic properties of related polyanions, 461
- Overbergh, N. and Berghmans, H.: Gelation properties of partial benzoylated isotactic polystyrene and its implications to the gel structure of isotactic polystyrene, 883
- Painter, P. C., Watzek, M. and Koenig, J. L.: Fourier transform infra-red study of polypropylene, 1169
- Palma, M.: see Ferruti, P., Martuscelli, E., Nicolais, L., Palma, M. and Riva, F.
- Pape, G. A.: see Edward, Joyce M., Mulley, R. D., Pape, G. A., Booth, C. and Shepherd, I. W.
- Parry, David A. D.: Axial arrangement of  $\alpha$ -chains in the collagen molecule: intramolecular polar and apolar interactions, 1091
- Patel, C. K.: see Patel, K. S., Patel, C. K. and Patel, R. D.
- Patel, K. S., Patel, C. K. and Patel, R. D.: On the excluded volume theories: fifth-power type equations, 275
- Patel, R. D.: see Patel, K. S., Patel, C. K. and Patel, R. D.
- Patterson, I.: see Hlaváček, B. and Patterson, I.
- Paul, N. C., Richards, D. H. and Thompson, D.: An aliphatic amine cured rubber modified epoxide adhesive: 1. Preparation and preliminary evaluation using a room temperature cure, 945
- Pedemonte, Enrico; Alfonso, Giovanni Carlo; Dondero, Giovanni; de Candia, Francesco and Araimo, Luigi: Correlation between morphology and stress-strain properties of three block copolymers: 2. The hardening effect of the second deformation, 191
- Pegoraro, M., Penati, A. and Clerici, P.: Porosity of membranes consisting of hydrophilic domains in a hydrophobic matrix, 831
- Pemawansa, K. P. W.: see Mendiz, L. P., Pemawansa, K. P. W. and Hettiarachchi, S.
- Penati, A.: see Pegoraro, M., Penati, A. and Clerici, P.
- Pennings, A. J.: see Gogolewski, S. and Pennings, A. J.
- Pennings, A. J.: see Stammhuis, J. E. and Pennings, A. J.
- Peppas, Nikolaos A.: Tear propagation resistance of semicrystalline polymeric networks, 403
- Percival, J. A.: see Guthrie, J. T. and Percival, J. A.
- Peterlin, Anton: Individual bead contribution to intrinsic viscosity of polymers, 747
- Peters, R. H.: see Onder, K., Peters, R. H. and Spark, L. C.
- Pethrick, R. A.: see Datta, P. K. and Pethrick, R. A.
- Pethrick, R. A.: see Dunbar, J. H., North, A. M. and Pethrick, R. A.
- Pethrick, Richard A.: see North, Alastair M., Pethrick, Richard A. and Phillips, David W.
- Phillips, David W.: see North, Alastair M., Pethrick, Richard A. and Phillips, David W.
- Phillips, G. O.: see Guthrie, J. T., Huglin, M. B. and Phillips, G. O.
- Pillai, P. S.: see Fielding-Russell, G. S. and Pillai, P. S.
- Pirozzi, Mario: see Martuscelli, Ezio; Pracella, Mariano and Pirozzi, Mario
- Pitha, Josef: Vinyl polymer analogues of nucleic acids, 425
- Plazek, Donald J. and Chelko, Albert J. Jr.: Temperature dependence of the steady state recoverable compliance of amorphous polymers, 15
- Pochan, John: see Froix, Michael F.; Pochan, John; Goedde, Andreas and Hinman, Darlyn
- Poletayeva, I. A.: see Lobach, M. I., Poletayeva, I. A., Khatchaturov, A. S., Druz, N. N. and Kormer, V. A.
- Poller, R. C.: see Ayrey, G., Humphrey, M. J. and Poller, R. C.
- Ponce-Vélez, M. A.: see Angulo-Sánchez, J. L., Gallegos, A., Ponce-Vélez, M. A. and Campos-López, E.
- Ponnuswamy, P. K.: see Srinivasan, A. R. and Ponnuswamy, P. K.
- Poon, Y. M.: see Chen, F. C., Poon, Y. M. and Choy, C. L.
- Porter, Roger S.: see Sheth, Paresh J., Johnson, Julian F. and Porter, Roger S.
- Pracella, M.: see Cavallo, P., Martuscelli, E. and Pracella, M.
- Pracella, Mariano: see Martuscelli, Ezio; Pracella, Mariano and Pirozzi, Mario
- Price, C., Forget, J.-L. and Booth, C.: Gel permeation chromatography of cross-linked particles prepared by emulsion polymerization, 526
- Prozenko, L. K.: see Khatchaturov, A. S., Dolinskaya, E. R., Prozenko, L. K., Abramchenko, E. L. and Kormer, V. A.
- Przybylski, M.: see Bruno, G., Foti, S., Maravigna, P., Montaudo, G. and Przybylski, M.
- Rabolt, John F. and Fanconi, Bruno: Longitudinal acoustic modes of polytetrafluoroethylene copolymers and oligomers, 1258
- Radic, Deodato; Boys, Daphne and Gargallo, Ligia: Viscosity studies of some polyamides dissolved in mixed solvents (cosolvents), 121
- Raia, D. C.: see Salamone, J. C., Volksen, W., Israel, S. C., Olson A. P. and Raia, D. C.
- Rami Reddy, C., Kashyap, A. K. and Kalpagam, V.: Temperature influence on the excess interaction parameter of styrene-methyl methacrylate copolymer, 32
- Rami Reddy, C.: see Kashyap, A. K., Kalpagam, V. and Rami Reddy, C.
- Ramsden, David K. and Moore, John C.: H-D exchange between poly(*N*-t-butyl acrylamide) and absorbed heavy water, 185
- Ree, Keiu; Yanagida, Masaru; Kanesaka, Junichiro and Minoura, Yuji: Copolymerization of benzonitrile and propylene oxide initiated by n-butyllithium, 308
- Rein, Robert: see Nir, Shlomo; Garduno, Ramon; Rein, Robert and MacElroy Nasa-Ames, Robert D.
- Rempp, Paul: see Candau, Françoise; Archar-Taromi, Faramarz and Rempp, Paul
- Riande, E., Fatou, J. G. and Alcazar, J. C.: Crystallization kinetics of poly(ethylene oxide) diluted with xylene, 1095
- Richards, D. H.: see Souel, T., Schué, F., Abadie, M. and Richards, D. H.
- Richards, D. H.: see Burgess, F. J., Cunliffe, A. V., Dawkins, J. V. and Richards, D. H.
- Richards, D. H.: see Burgess, F. J., Cunliffe, A. V., MacCallum, J. R. and Richards, D. H.
- Richards, D. H.: see Cunliffe, A. V., Richards, D. H. and Thompson, D.
- Richards, D. H.: see Paul, N. C., Richards, D. H. and Thompson, D.
- Richards, R. W.: Dilute solution properties of poly(benzyl methacrylate), 114
- Richardson, M. J. and Savill, N. G.: Volumetric properties of polystyrene: influence of temperature, molecular weight and thermal treatment, 3
- Richardson, M. J. and Savill, N. G.: Enthalpy relaxation in amorphous polymers, 413
- Rigdahl, M.: see Djurner, K., Kubát, J. and Rigdahl, M.
- Riva, F.: see Ferruti, P., Martuscelli, E., Nicolais, L., Palma, M. and Riva, F.
- Robb, I. D. and Smith, R.: Adsorption of polymers at the solid-liquid interface: a comparison of the e.p.r. and i.r. techniques, 500
- Rodriguez, F.: see Zvanut, C. W. and Rodriguez, F.

## Author Index

- Roots, J.: *see* Nyström, B. and Roots, J.  
 Rose, J. B.: *see* Attwood, T. E., Barr, D. A.,  
     Feasey, G. G., Leslie, V. J., Newton,  
     A. B. and Rose, J. B.  
 Rose, J. B.: *see* Attwood, T. E., Barr, D. A.,  
     King, T., Newton, A. B. and Rose, J. B.  
 Rose, J. B.: *see* Attwood, T. E., King, T.,  
     Leslie, V. J. and Rose, J. B.  
 Rose, J. B.: *see* Attwood, T. E., King, T.,  
     McKenzie, I. D. and Rose, J. B.  
 Rudin, A., Wagner, R. A., Chee, K. K., Lau,  
     W. W. Y. and Burns, C. M.: Effects of  
     chain ends and molecular weight on  
     specific volumes of anionic polystyrene  
     melts, 124
- Saeki, Susumu; Kuwahara, Nobuhiro;  
     Nakatu, Mitsuo; and Kaneko, Motozo:  
     Phase separation of the poly(ethylene  
     glycol)-water-salt systems, 1027  
 Saito, H.: *see* Kajiwara, M. and Saito, H.  
 Saito, Hajime: *see* Kajiwara, M., Makihara,  
     M. and Saito, Hajime  
 Salamone, J. C., Volksen, W., Israel, S. C.,  
     Olson, A. P. and Raia, D. C.: Preparation  
     of inner salt polymers from vinylimi-  
     dazolium sulphobetaines, 1058  
 Saleh, B.: *see* Hendrix, J., Saleh, B., Gnädig,  
     K. and De Maeyer, L.  
 Salvatori, T.: *see* della Fortuna, G., Ober-  
     rauch, E., Salvatori, T., Sorta, E. and  
     Bruzzone, M.  
 Samuels, Robert J.: A quantitative evalua-  
     tion of the structure and properties of  
     the methyl ester of divinyl ether-maleic  
     anhydride 1:2 copolymer, 452  
 Sanders, L. J.: *see* Seymour, Raymond B.,  
     Garner, David P., Stahl, G. A., Knapp,  
     Roger and Sanders, L. J.  
 Santappa, M.: *see* Nanjan, M. J., Balasubra-  
     maniam, M., Srinivasan, K. S. V. and  
     Santappa, M.  
 Sato, Hisaya; Ono, Akihisa; and Tanaka,  
     Yasuyuki: Distribution of isomeric struc-  
     tures in polyisoprenes, 580  
 Savill, N. G.: *see* Richardson, M. J. and  
     Savill, N. G.  
 Schelten, J., Wignall, G. D., Ballard, D. G. H.  
     and Longman, G. W.: Small-angle neutron  
     scattering studies of molecular clustering  
     in mixtures of polyethylene and deu-  
     terated polyethylene, 1111  
 Schelten, J.: *see* Ballard, D. G. H., Cunning-  
     ham, A. and Schelten, J.  
 Schmauder, Kh.: *see* Kimmich, R. and  
     Schmauder, Kh.  
 Schmidt, G. F.: *see* Fakirov, S., Fischer,  
     E. W., Hoffmann, R. and Schmidt, G. F.  
 Schnabel, W.: *see* Kuhlmann, R. and  
     Schnabel, W.  
 Schriever, J. and Leyte, J. C.:  $^1\text{H}$  n.m.r.  
     measurements on aqueous solutions of  
     poly(methacrylic acid), 1185  
 Schué, F.: *see* Souel, T., Schué, F., Abadie,  
     M. and Richards, D. H.  
 Scott, Gerald: *see* Chakraborty, Khirud, B.  
     and Scott, Gerald  
 Segre, A. L.: *see* Conti, F., Delfini, M. and  
     Segre, A. L.  
 Semlyen, J. A.: *see* Dodgson, K. and  
     Semlyen, J. A.  
 Seymour, Raymond B., Garner, David P.,  
     Stahl, G. A., Knapp, Roger and Sanders,  
     L. J.: Styrene/acrylonitrile alternating  
     copolymers, 1157  
 Sheikh, E. M.: *see* Heidemann, E., Neiss,  
     H. G., Khodadadeh, K., Heymer, G. and  
     Sheikh, E. M.
- Shepherd, I. W.: *see* Delides, C. G. and  
     Shepherd, I. W.  
 Shepherd, I. W.: *see* Edward, Joyce M.,  
     Mulley, R. D., Pape, G. A., Booth, C.  
     and Shepherd, I. W.  
 Shepherd, I. W.: *see* Hartley, A. J., Leung,  
     Y.-K., McMahon, J., Booth, C. and  
     Shepherd, I. W.  
 Shepherd, I. W.: *see* Lindsay, S. M.,  
     Adshead, Alan and Shepherd, I. W.  
 Shepherd, I. W.: *see* Spells, S. J., Shepherd,  
     I. W. and Wright, C. J.  
 Sherrington, D. C.: *see* Greig, J. A., Mac-  
     Kenzie, W. M. and Sherrington, D. C.  
 Sheth, Paresh J., Johnson, Julian F. and  
     Porter, Roger S.: Mechanical degradation  
     of polymers: the limiting degree of  
     polymerization, 741  
 Sheth, P. J.: *see* Wu, C. B., Sheth, P. J. and  
     Johnson, J. F.  
 Shimada, Shigetaka; Maeda, Masatoshi;  
     Hori, Yasuro and Kashiwabara, Hisatsugu:  
     Free radicals trapped in polyethylene  
     matrix: 1. Location of the alkyl radicals  
     in irradiated polyethylene, 19  
 Shimada, Shigetaka; Hori, Yasuro and  
     Kashiwabara, Hisatsugu: Free radicals  
     trapped in polyethylene matrix: 2.  
     Decay in single crystals and diffusion, 25  
 Shimada, Shigetaka: *see* Hori, Yasuro;  
     Shimada, Shigetaka and Kashiwabara,  
     Hisatsugu  
 Shoefield, N. A.: *see* Grodzinsky, A. J.  
     and Shoefield, N. A.  
 Sigwalt, P.: *see* Mauzac, M., Vairon, J. P.  
     and Sigwalt, P.  
 Sinha, T. B.: *see* Deopura, B. L., Kumar,  
     Vijay and Sinha, T. B.  
 Sinnock, A. C.: Refractive index of poly-  
     styrene at 5461 Å in the temperature  
     range 30 to 260 K, 308  
 Sisido, Masahiko: *see* Higashimura, Toshi-  
     nobu; Sisido, Masahiko and Fuyama,  
     Hirosi  
 Smith, E. G.: *see* Eastmond, G. C. and  
     Smith, E. G.  
 Smith, G. R.: *see* Darlington, M. W., Glad-  
     well, B. K. and Smith, G. R.  
 Smith, K. and Haward, R. N.: Plastic frac-  
     ture of polystyrene, 745  
 Smith, R.: *see* Robb, I. D. and Smith, R.  
 Sohma, Junkichi: *see* Tsuchihashi, Nobuaki;  
     Enomoto, Takamichi; Hatano, Masahiro  
     and Sohma, Junkichi  
 Sorta, E.: *see* De Chirico, A. and Sorta, E.  
 Sorta, E.: *see* della Fortuna, G., Oberrauch,  
     E., Salvatori, T., Sorta, E. and Bruz-  
     zone, M.  
 Sotton, M.: *see* Leclercq, B., Sotton, M.,  
     Baszkin, A. and Ter-Minassian-Saraga, L.  
 Souel, T., Schué, F., Abadie, M. and  
     Richards, D. H.: Block copolymers  
     prepared by an anion to free radical  
     transformation process: 1. Kinetics and  
     efficiency of initiation of polyiso-  
     prene-lead trimethyl, 1292  
 Spark, L. C.: *see* Onder, K., Peters, R. H.  
     and Spark, L. C.  
 Spells, S. J., Shepherd, I. W. and Wright,  
     C. J.: Raman, infra-red and neutron  
     studies of low frequency vibrations in  
     some substituted polystyrenes, 905  
 Srinivasan, A. R., and Ponnuswamy, P. K.:  
     On the existence of *cis/trans* peptide  
     mixtures in poly(*N*-methylglycine), 107  
 Srinivasan, K. S. V.: *see* Nanjan, M. J.,  
     Balasubramaniam, M., Srinivasan, K. S. V.  
     and Santappa, M.  
 Stahl, G. A.: *see* Seymour, Raymond B.,  
     Garner, David P., Stahl, G. A., Knapp,
- Roger and Sanders, L. J.  
 Stamhuis, J. E. and Pennings, A. J.: Crystali-  
     zation of polyamides under elevated  
     pressure: 6. Pressure-induced crystalliza-  
     tion from the melt and annealing of  
     folded-chain crystals of nylon-12, poly-  
     laurolactam under pressure, 667  
 Stannett, V. T.: *see* Enscore, D. J., Hopfen-  
     berg, H. B. and Stannett, V. T.  
 Stannett, V. T.: *see* Enscore, D. J., Hopfen-  
     berg, H. B., Stannett, V. T. and Berens,  
     A. R.  
 Stannett, V. T.: *see* Faulkner, D. L., Hopfen-  
     berg, H. B. and Stannett, V. T.  
 Stivala, S. S. and Gabbay, S. M.: Kinetics  
     of the thermal oxidation of poly(4-  
     methyl-1-pentene) from volatile pro-  
     ducts using thermogravimetric analysis,  
     807  
 Stone, Tadeusz: *see* Dawkins, John V.,  
     Stone, Tadeusz and Yeadon, Graham  
 Stracke, Fr.: *see* Glenz, W., Kilian, H. G.,  
     Klattenhoff, D. and Stracke, Fr.  
 Strazielle, C.: *see* Arpin, M. and Strazielle, C.  
 Strazielle, C.: *see* Arpin, M., Strazielle, C.,  
     Weill, G. and Benoit, H.  
 Suggate, J. R.: *see* Bevington, J. C., Suggate,  
     J. R. and Weale, K. E.  
 Szafner, A. and Karger-Kocsis, J.: Structural  
     memory in chromium coordinated poly-  
     amides, 564
- Tait, P. J. T. and Abushihada, A. M.:  
     Comparative studies on the use of gas  
     chromatographic and vapour pressure  
     techniques for the determination of the  
     interaction energy parameter, 810  
 Takakushi, Katsumi; Kikuchi, Kazuo and  
     Yoshioka, Koshiro: Electric birefrin-  
     gence of sodium poly(L-glutamate) in  
     water/organic solvent mixtures, 969  
 Tanabe, Hiroshi: *see* Arai, Kozo and Tanabe,  
     Hiroshi  
 Tanaka, R.: *see* Mori, T., Tanaka, R. and  
     Tanaka, T.  
 Tanaka, T.: *see* Mori, T., Tanaka, R. and  
     Tanaka, T.  
 Tanaka, T.: *see* Tsutsui, T. and Tanaka, T.  
 Tanaka, Yasuyuki: *see* Sato, Hisaya; Ono,  
     Akihisa and Tanaka, Yasuyuki  
 Ter-Minassian-Saraga, L.: *see* Leclercq, B.,  
     Sotton, M., Baszkin, A. and Ter-Minas-  
     sian-Saraga, L.  
 Thomas, Noreen and Windle, A. H.: Dis-  
     continuous shape changes associated  
     with Case II transport of methanol in  
     thin sheets of PMMA, 1195  
 Thompson, D.: *see* Cunliffe, A. V., Richards,  
     D. H. and Thompson, D.  
 Thompson, D.: *see* Paul, N. C., Richards,  
     D. H. and Thompson, D.  
 Tidone, D.: *see* Nicolais, L., Drioli, E.,  
     Hopfenberg, H. B. and Tidone, D.  
 Tieghi, G.: *see* Danusso, F., Ferruti, P.,  
     Moro, A., Tieghi, G. and Zocchi, M.  
 Toda, Y.: *see* Hirohashi, R., Toda, Y. and  
     Hishiki, Y.  
 Tomita, Kosuke: Studies on the formation  
     of poly(ethylene terephthalate): 9.  
     Thermal decomposition of ethylene  
     dibenzoate as a model compound of  
     poly(ethylene terephthalate), 295.  
     Catalytic activity of metal compounds  
     in the thermal decomposition of ethy-  
     lene dibenzoate, 1295  
 Torige, Kazuo: *see* Yamaoka, Tsuguo;  
     Ueno Koji; Tsunoda, Takahiro and  
     Torige, Kazuo

- Treiber, L. R.: *In situ* crosslinking of poly-peptides, 449
- Tsuchida, Eishun: *see* Hasegawa, Etsuo; Inamoto, Tadayoshi and Tsuchida, Eishun
- Tsuchihashi, Nobuaki; Enomoto, Takanobu; Hatano, Masahiro and Sohma, Junkichi:  $^{13}\text{C}$  spin-lattice relaxation study of molecular motions of side chains in L-helical polyglutamates, 857
- Tsunoda, Takahiro: *see* Yamaoka, Tsuguo; Ueno, Koji; Tsunoda, Takahiro and Torige, Kazuo
- Tsutsui, T. and Tanaka, T.: Role of electrostatic forces in the glass transition temperatures of ionic polymers, 817
- Turner, D. T.: *see* Kusy, R. P. and Turner, D. T.
- Twining, Sally S., LaPointe, Diane and Brecher, Arthur S.: Interaction of muco-polysaccharides with chymotrypsin, 483
- Ueno, Koji: *see* Yamaoka, Tsuguo; Ueno, Koji; Tsunoda, Takahiro and Torige, Kazuo
- Vairon, J. P.: *see* Mauzac, M., Vairon, J. P. and Sigwalt, P.
- van Krevelen, D. W., Goedhard, D. J. and Hoftijzer, P. J.: Correlations in the molecular weight distribution of polymers, 750
- Veličković, J.: *see* Cowie, J. M. G., Henshall, S. A. E., McEwen, I. J. and Veličković, J.
- Villalba, J.: *see* Muñoz-Escalona, A. and Villalba, J.
- Vinogradov, G. V.: Ultimate regimes of deformation of linear flexible chain fluid polymers, 1275
- Vogl, O.: *see* Lipp, D. W. and Vogl, O.
- Volksen, W.: *see* Salamone, J. C., Volksen, W., Israel, S. C., Olson, A. P. and Raia, D. C.
- Wagner, R. A.: *see* Rudin, A., Wagner, R. A., Chee, K. K., Lau, W. W. Y. and Burns, C. M.
- Walker, S. M.: *see* Block, H., Cowden, D. A. and Walker, S. M.
- Walker, S. M.: *see* Block, H., Evans, D. and Walker, S. M.
- Walker, S. M.: *see* Block, H., Cowden, D. R., Lord, P. W. and Walker, S. M.
- Wang, C. S. and Yeh, G. S. Y.: A DRDF study of liquid crystalline poly(ethylene terephthalate) and *p*-hydroxybenzoic acid copolyester, 1085
- Ward, I. M. and Wilding, M. A.: Infra-red and Raman spectra of poly(*m*-methylene terephthalate) polymers, 327
- Ward, I. M.: *see* Capuccio, G. and Ward, I. M.
- Ward, I. M.: *see* Morgan, G. P. and Ward, I. M.
- Warren, R. F.: *see* Cosgrove, T. and Warren, R. F.
- Watanabe, H.: *see* Kambe, Hirotaro; Watanabe, H., Nagatomo, S. and Itoh, Yutaka
- Watanabe, Yasushi: *see* Iguchi, Masatoshi and Watanabe, Yasushi
- Watson, W. R.: *see* Dorrrington, K. L., McCrum, N. G. and Watson, W. R.
- Watzek, M.: *see* Painter, P. C., Watzek, M. and Koenig, J. L.
- Weale, K. E.: *see* Bevington, J. C., Suggate, J. R. and Weale, K. E.
- Weill, G.: *see* Arpin, M., Strazielle, C., Weill, G. and Benoit, H.
- Weill, G.: *see* Coles, H. J. and Weill, G.
- Widmaier, J. M. and Meyer, G. C.: Adhesive properties of ABA poly(styrene-*b*-isoprene) block copolymers, 587
- Wiegel, F. W. and Mijnlieff, P. F.: Intrinsic viscosity and friction coefficient of polymers in solution, 636
- Wignall, G. D.: *see* Schelten, J., Wignall, G. D., Ballard, D. G. H. and Longman, G. W.
- Wilding, M. A.: *see* Ward, I. M. and Wilding, M. A.
- Williams, Graham: *see* Beevers, Martin, S., Garrington, David C. and Williams, Graham
- Willis, H. A.: *see* Chantry, G. W., Nicol, Elisabeth A., Jones, R. G., Willis, H. A. and Cudby, M. E. A.
- Willis, H. A.: *see* Cutler, D. J., Hendra, P. J., Cudby, M. E. A. and Willis, H. A.
- Willmouth, F. M.: *see* Blundell, D. J., Cogswell, F. N., Holdsworth, P. J. and Willmouth, F. M.
- Windle, A. H.: *see* Thomas, Noreen and Windle, A. H.
- Wright, C. J.: *see* Spells, S. J., Shepherd, I. W. and Wright, C. J.
- Wu, C. B., Sheth, P. J. and Johnson, J. F.: Ultrasonic degradation of poly(methyl methacrylate), 822
- Yamamoto, Hiroyuki and Hayakawa, Tadao: Synthesis and conformational study of poly(L- $\beta$ -3,4-dihydroxyphenyl-L-alanine), 979
- Yamamoto, H., Inouye, K. and Hayakawa, T.: Characterization of helical sense by infra-red measurement, 1288
- Yamaoka, Tsuguo; Ueno, Koji; Tsunoda, Takahiro and Torige, Kazuo: A study of phenoxy-resin esters of cinnamylidene-acetic acid and its derivatives, 81
- Yamini, S. and Young, R. J.: Stability of crack propagation in epoxy resins, 1075
- Yanagida, Masaru: *see* Ree, Keiu; Yanagida, Masaru; Kanesaka, Junichiro and Minoura, Yuji
- Yeadon, Graham: *see* Dawkins, John V., Stone, Tadeusz and Yeadon, Graham
- Yeh, G. S. Y.: *see* Wang, C. S. and Yeh, G. S. Y.
- Yilgör, I.: *see* Orhan, E. H., Yilgör, I. and Baysal, B. M.
- Yoshioka, Koshiro: *see* Takakusaki, Katsumi; Kikuchi, Kazuo and Yoshioka, Koshiro
- Yoon, D. Y. and Flory, P. J.: Small-angle neutron scattering by semicrystalline polyethylene, 509
- Young, K.: *see* Choy, C. L. and Young, K.
- Young, R. N.: *see* Hayes, G. F. and Young, R. N.
- Young, R. J.: *see* Yamini, S. and Young, R. J.
- Zeldenrust, H.: *see* Mandema, W. and Zeldenrust, H.
- Ziabicki, Andrzej: *see* Jarecki, Leszek and Ziabicki, Andrzej
- Zocchi, M.: *see* Danusso, F., Ferruti, P., Moro, A., Tieghi, G. and Zocchi, M.
- Zvanut, C. W. and Rodriguez, F.: Modulus jump and degradation of collagen gels: dependence on concentration and pH, 467