

Keyword Index

- (1,3-oxothiolane-2-thione)s 4381
 1-butene 2141
 1,1,2,2-Tetraphenyl-1,2-ethanediol 5219
 1,2-Diaminoethane 2719, 2727
 1,2-diketone 6205
 1,3,4-oxadiazole 6581
 1,4-Polybutadiene 827
 1,5-dioxepan-2-one 7321
 1,6-Diene 2831
 12-DOXYL 1131
 193-nm photoresist 6939
 2-(Phenoxyphenyl)-5-(2-phenylethynyl)-1H-isoindole-1,3(2H)-dione 4965
 2-acrylamido-2-methylpropane sulfonic acid sodium salt 3693, 5737
 2-Ethynyl furan 2491
 2-hydroxyethyl methacrylate 7193, 8001
 2-Hydroxyethyl methacrylate/*t*-butyl acrylate/DMF copolymerization 6021
 2-Hydroxyethyl methacrylate/*tert*-butyl acrylate/DMF copolymerization 8155
 2,4,6-trinitrotoluene 5021
 2D NMR spectroscopy 933
 2nd nonlinear optical polymer 6095
 3-[tris(trimethylsilyloxy)silyl] propyl methacrylate 1441
 3-Substituted coumarins 991
 4-*tert*-Butylcatechol 6537
 4-Nitroaniline derivatives as initiators 7871
 α and β transcrystallization 7843
 α -Amylase fixation 4951
 α -Olefin 2755
 α -Substituted acryloyl group 2831
 α, α' -dibromometaxylenes 3183
 α, β -Poly[(*N*-hydroxyethyl)-DL-aspartamide] 8649
 Abrasion 133
 ABS 239
 Absorbable 621
 Accelerator 7201
 Acid resinification mechanism 2491
 Acid–base interaction-mediated compatibilization 3213
 Acrylamide 1391, 3693, 4099, 5729, 5737
 Acrylates 1647
 Acrylic carbohydrates 821
 Acrylic coatings 1657
 Acrylic paints 1657
 Acrylic polymers 6603
 Acrylic resins 6447
 Acrylonitrile-co-butadiene rubber 579
 Acrylonitrile-butadiene rubber 7815
 Acrylonitrile-butadiene-styrene 225, 335
 Acrylonitrile copolymers 3871
 Activated ester 423
 Activation energies 4635, 4811
 Acylated chitosan 899
 Addition fragmentation 4409
 Addition–fragmentation chain transfer 5625
 Addition–fragmentation reactions 6035
 Addition polymerization 2583
 Additive 6931
 Adhesion 6597, 8035
 Adhesion promotion 6553
 Adsorbed and dissolved oxygen 8401
 AFM 6723, 8839
 Agarose 559
 Ageing 947, 4077
 Aggregation 947
 Aggregation behavior 5847, 8681
 Aggregation conditions 2711
 Aliphatic polyketones 1959, 3011
 Alkali 8409
 Alkali-metal carboxylated dendritic poly(amidoamine) 6103
 Alkali soluble resin 5695
 Alkane 8781
 Alkoxy silane 57
 Alkylene carbonate 9013
 Alphamethylstyrene acrylonitrile 1305
 Alternating copolyimides 5173
 Alternating multiblock copolymers 7091
 Aluminium alkoxides 6439
 Amber 743
 Ammonium polyphosphate 5283
 Amorphous polymers 4991
 Amylopectin 1841
 Amylose 9273
 Anhydrides 8603
 Anionic copolymerization 9291
 Anionic polymerization 6081, 7865, 7981, 8299
 Anionic synthesis 5535
 Anomalous micellization 5367
Antheraea pernyi silk fibroin 7361
 Aqueous solutions 1377, 3851
 Aqueous solutions of SH-bearing poly(acrylamide) 35
 Aramid short fibres 6351
 Arborescent polystyrene generation number 219
 ArF excimer laser lithography 8035
 Aromatic amine 8241
 Aromatic diamines 6043
 Aromatic polyester 8349
 Aromatic polyesters 7297, 8349
 Aromatic polyester urethanes 3297
 Aromatic polyimides 2105, 7057
 Arrested cracks 5415
 Arsanilic acids 5505
 Arsonic acids 5505
 Aryl-aliphatic copolyamides 2989, 4281, 5451
 Aryl–aliphatic copolyamides 2677
 Arylene ether sulfone 5109
 Associative polymers 545
 Asymmetric membranes 377
 Asymmetry 8573
 Atactic poly[(*R,S*)-3-hydroxybutyrate] 5985
 Atmospheric pressure plasma glow discharge 7355
 Atom transfer radical polymerisation 1697, 6015
 Atomic force microscopy 1561, 1917, 2213, 3349, 4223, 6987, 7735
 Atomistic molecular dynamics simulations 675
 ATR-FTIR 2591
 Autocatalytic model 2081
 Avrami equation 2639
 Azeotropic solvents 9013
 Azo-dye-doped polymer 3235
 Azobenzene 2309
 Azobenzene-containing methacrylic polymers 4767
 Azobenzene mesogen 3103
 Azomethine Mesogen 7617
 Bacterial polyesters 1429, 3327
 Banded row structures 9169
 Barium titanate 6403
 Barton ester 5063
 Benzil 7883
 Benzo crown ethers 7111
 Benzyl radical 5619
 Bergman cyclopolymerization kinetics 4415
 Biaxial drawing 771
 Biaxial stretching 1937
 Biaxially oriented polypropylene 2213
 Bicontinuous morphology 2569
 Binary mixtures of water and dimethyl sulphoxide (DMSO) 559
 Binding 2471, 7415
 Biodegradable 3993
 Biodegradability 5967
 Biodegradable polyesters 4781
 Biodegradable polymer blends 8729
 Biodegradable polymers 2305, 4719, 5855
 Biodegradation 1297, 2331
 Bionolle 8449
 Biopolymer gel composites 2319
 Biopolymers 6833
 Biphasic segregation 8355
 Biphenyltetracarboxylic dianhydrides 7057
 Birefringence 2379
 Bis(esterdiamide)1,2-Diaminoethane) 3965
 Bis(pyridinium salt) 5001
 Bis(trihalophenolato)di(pyridine)nickel(II) 5149
 Bis(trihalophenolato)tri(pyridine)nickel(II) 5149
 Bis-*ortho*-diynylarennes 4415
 Biscyclopentadiene 3183
 Bisesterdiamides 2719, 8487
 Bismaleimide–amine 8231
 Bismaleimides 3945, 6043, 8221
 Bisphenol A 2289, 5039, 8465
 Bisphenol-A based epoxy resins 2865
 Bisphenol-A bis(hydroxyethyl) ether 6749
 Bitumen 5315
 Blend 1309, 4157, 4757, 5157, 5799, 7627
 Blend *P*–*v*–*T* properties 2839
 Blend morphology 3057
 Blends 579, 663, 975, 1507, 1817, 1937, 2305, 3037, 5257, 5315, 5393, 5471, 5669, 5749, 5993, 6251, 6813, 7193, 8061, 8387
 Block copolymer 367, 2773, 5971, 5977, 6709, 7033, 9163
 Block copolymer synthesis 4671
 Block copolymerization 4429
 Block copolymers 2001, 3779, 4729, 6231, 6969, 9239
 Blocked polyurethane 7961
 Blood compatibility 3713

- Blown films 9205
 Blue-green photoluminescence 2743
 Bound water 6055
 Boundary 5793
 Branch content 8741
 Branched architecture 6027
 Branched polyethylene 9169
 Branched polymer 5165
 Breaking thread 6695
 Breakup 6865
 Brittle-tough transition 3479
 Bromination 6095
 Bulk free radical styrene polymerization 3925
 Bulk polymerization 7877
 Bulk properties 4617
 Bulk-filling 2241
 Butadiene 5903
 Butene-based LLDPE 8741
 Butyl acrylate 7641
 Butyl methacrylate 8001
- ¹³C NMR 7331
¹³C solid state NMR 859
 C-9 resin 5195
 $C_5H_5TiCl_3$ 8271
 C₆₀-containing poly(2,6-dimethyl-1,4-phenylene oxide) 8721
 C_{70} 1233
 Calibration 8941
 Calixarene-neodymium complex 1641
 Calorimetry 1369
 Capillary rheometry 6323
 Carbazole 2773
 Carbazole-acrylamide copolymers 839
 Carbohydrate matrixes 821
 Carbohydrate-based polyamides 4869
 Carbon black 9123
 Carbon black filler 4137
 Carbon black-filled polymer blends 4559
 Carbon dioxide 6223
 Carbon fiber 3243
 Carboxy end group 3561
 Carboxyl-containing polysiloxane 6563
 Carboxylated poly(arylene ether sulfone) 5063
 Carboxylated polyurethanes 3513
 Carboxylated styrene-butadiene rubber 907
 Carboxylic acid-terminated polystyrene 2705
 Case-II diffusion 7159
 Catalysts 2727, 8603
 Catalytic chain transfer 1385
 Cation complexation 7111
 Cation conductors 965
 Cationic cellulosic fibres 607
 Cationic copolymerization 7925
 Cationic hydrogel 3975
 Cationic polymer particle 7023
 Cationic polymeric surfactants 8501
 Cationic polymerization 6035
 Cationic polyoxyethylene chains 6431
 Cavitation 269, 4149, 5937, 7523
 Cellulose 1589, 1873
 Cellulose acetate 385
 Cellulose films 6171
- Cellulose triacetate 8449
 Cellulose-supported hydrogel 1551
 Centered tetragonal system 3083
 Chain orientation 4267
 Chain transfer 4409, 6027
 Chainfolding 8755
 Channel structures 5871
 Characterisation 5855
 Chelating resins 3463
 Chemical modification 2349, 3463
 Chemical recycling 6749, 7017
 Chemical shift anisotropy 859, 7289
 Chemical structure 433, 899
 Chemically amplified resist 149
 Chitin-cellulose films 1947
 Chito-oligosaccharide 2033
 Chitosan 2373, 2463, 4461, 4589, 4841, 7051
 Chitosan derivative 4841
 Chitosanase 2157
 Chloromethylated polysulfone 8205
 Chlorosulfonated polyethylene 7583
 Cholesteric 6423
 Cholesterol end-capped poly(ethylene glycol) 2925
 Ciliation 8801
 Circular dichroism 6527
cis-1,4-Polyisoprene 7483
 Clay 3887
 Cluster 3099
 CMC 6741
 CMM and Ewald summation method 2149
 Co-continuous 3037
 Co-continuous morphology 1799, 1817
 Co-solvent mixture 6195
 CO₂ pressure 3483
 Coalescence 3029, 6865
 Coarsening 3037
 Cobaloxime 1385
 Coil-coil interactions 4825
 Coil-globule collapse 1461
 Cold drawn material 2999
 Collapsible 7273
 Colloid 1627
 Comb polymers 6701
 Comb-shaped copolymer 2053
 Combinatory entropy 8331
 Comonomer sequence 2349
 Comonomer sequence distribution 2419
 Comparative study 3147
 Compatibility 1647, 4803, 5327
 Compatibilization 357, 2069, 2543, 4817, 4923, 5485, 7627
 Compatibilizer effectiveness 2543
 Compatibilizer 3599, 5971
 Compatibilizing agent 3875
 Complex heat capacity 8941
 Complex polymer 2439
 Complex polymer solution 8331
 Complexation 73
 Composite interface 6895
 Composite materials 3841
 Composite matrices 5073
 Composite polymer particles 453
 Composites 161, 751, 4599, 6351, 6589
 Composition fluctuations 3779
 Compression 2271
- Compressive stress-strain properties 4291
 Computer simulations 8857
 Condensation polymerization 2219
 Condensation reaction 1679
 Conducting polyalkylthiophene 423
 Conducting polymer 4491
 Conducting polymers 3121, 4065, 4757, 6473, 8387
 Conductive polymer blends 3253
 Cone-and-plate 2633, 8425
 Configurational structure 3705
 Confined crystallization behavior 2041
 Confocal Raman spectroscopy 7641
 Conformation 6965
 Conformational model for poly(dichlorophosphazene) 3337
 Conformer 401
 Conjugate oligomers 8263
 Conjugated polymer blend films 4113
 Conjugation 9147
 Connolly surfaces 2313
 Constitutive model 771
 Contact angle 9111
 Contact lens 9081
 Contrast variation 1873
 Controlled polymerization 445
 Coordination 985
 Copoly(β -aspartate)s 8475
 Copoly(β -peptide)s 8475
 Copoly(ester amide)s hydrolytic degradation 6995
 Copolyamic acid methyl ester 433
 Copolyesters 4029, 4817
 Copolyetheresteramides 8487
 Copolyethers 3561
 Copolymer 6123, 6683
 Copolymer architecture 6387
 Copolymer inter and intramolecular structures 8155
 Copolymer-copolymer blends 3871
 Copolymerization 2755, 4523, 6635, 7575
 Copolymerization of ethylene with α -olefin 7899
 Copolymers 663, 925, 7303, 8813
 Copolymers of poly(amino acid)-urethane 473
 Copper ethylenediamine 8513
 Coran-Patel model 385
 Core-shell 7133
 Core-shell composite latex 1337
 Core-shell latex 8565
 Core-shell morphology 3381, 7099
 Core-shell systems 2883
 Corrosion protection 6553
 Cosolvency 4743
 Coupled diffusion-reaction-swelling 8543
 Coupling agent 3243
 Coupling reaction 4351
 Craze growth rate 1119
 Creep 5443
 Creep and recovery 4849
 Critical chromatography 1003
 Cross-link density 133
 Cross-linked network structure 3103
 Crosslinking 17, 1321, 2511, 3905, 4537, 4793, 6027, 6481, 6497, 7459
 Cross-linking 8035

- Cross-linking density 3993
 Cross-linking kinetics 5571
 Crosslinking agents 27, 489
 Crosslinking copolymerization 3317
 Crosslinking polymerization 5729
 Crosslinking reactions 81, 2017
 Crown ether 6975
 Cryotropic gel formation 35
 Crystal growth kinetics 1205
 Crystal morphology 3745
 Crystal reorganization 3719
 Crystal structure 2937, 4719, 7241, 8909, 8921, 9003
 Crystalline phase 311
 Crystallinity 277, 1741, 2515, 2899, 2979, 4285, 5957, 8393
 Crystallisation 1045, 3411, 3437, 4233, 4579, 4889, 6875, 7793, 8161
 Crystallisation behaviour 1395
 Crystallizable blends 4651
 Crystallization 621, 1217, 2781, 5423, 7147, 7653, 7803, 7855, 8761, 8975
 Crystallization behavior 203, 2305, 7483
 Crystallization condition 2827
 Crystallization kinetics 1711, 1953, 2639, 7769, 8121, 8813
 Crystallization under shear 523
 Cure kinetics 2081, 2657
 Cure monitoring 2113
 Cure-dependent diffusivity model 7723
 Curing 1973, 4625
 Curing behaviour 4381
 Curing kinetics 3639
 Curing mechanisms 3639
 Curing reaction 4203
 Cyanate esters 1647, 3945
 Cyano polymers 8095
 Cyano PPV derivatives 2603
 Cycle zone-drawing/zone-annealing 6061
 Cyclic oligoesters 1239
 Cyclic oligomers 259, 8283
 Cyclics 1487
 Cyclo olefin copolymer 401
 Cyclo olefin copolymer (COC) 6095
 Cyclo-depolymerisation 1239
 Cycloaliphatic epoxides 81, 2017
 Cyclodextrins 5871
 Cyclopentadiene 1633
 Cyclopolymerization 3883

 DL-Lactide 925
 D,L-Lactic acid 4589
 De-aging, Cold crystallization 7427
 Deacetylation process 2463
 DEBGA–MHHPA epoxy system 2081
 Dedoping 5839
 Deformation 1475, 3019, 4189, 5415, 6619
 Degradable polymers 9111
 Degradation 1685, 4661, 4901, 7123
 Degradation mechanism 7331
 Dendrimer conformation 675
 Dendrimers 3193, 7705
 Dendritic electrolyte 6103
 Dental resin composite 6205
 Deoxyribonucleic acid (DNA) 2847
 Depolymerization 4361
 Destruction 5787

 Deswelling 3273
 DETA 6803
 Deuterium NMR 7699
 Dextran 5633
 Diacetylene polymerization 8113
 Dialkyl fumarates 3895
 Diazomethane 3371
 Diblock 2557
 Diblock copolymers 5367, 8897
 Dibutyltin octanoate 7311
 Dichloroacetic acid 2265
 Dicyandiamide 3263
 Dielectric absorptions 4811
 Dielectric relaxation 725, 1963, 2677, 5305
 Dielectric spectroscopy 1063, 2249, 6787
 Diels–Alder 1633
 Diene polymer 6573
 Diethyl 2,3-dicyano-2,3-diphenylsuccinate/FeCl₃/PPh₃ 7347
 Diethylene terephthalate 5297
 Differential scanning calorimetry 1577, 2657, 3273, 3437, 3483, 4029, 4415, 4889, 6055, 6969, 7653, 7667, 8579
 Differential thermal analysis 523
 Diffusion 565, 3659, 6151, 7263, 7489, 7511
 Diffusion coefficients 1287, 7531
 Diffusion rate 1865
 Diffusion termination 3925
 Diffusivity 1827
 Diglycidyl ether of bisphenol-A 3263
 Diimide 907
 Diinitiator 5601
 Diisocyanate-based waterborne polyurethanes 6755
 Dilute solution 2711, 6195
 Dimethyl siloxane bisphenol-A 3365
 Dimethyl terephthalate 2719
 Diocetylphthalate fungicides 8659
 Dipolar interactions 3405
 Dipole moments 4047
 Direct polymerization 433
 Disentanglement 6729
 Dispersed morphology 1529, 1799
 Dispersed phase 1765
 Dispersion redox copolymerization 539
 Divinylester resins 3317
 DMTA 6803
 Dodecyl trimethylammonium bromide 2471
 Double gyroid 6231
 Double positive temperature coefficient 4559
 Double-twist helical crystals 8953
 Drag reduction 7611
 Dragline silk 1223, 3487
 Drawing 1077, 1589
 Driving force 2743
 Drug carrier 8649
 Dry 3487
 DSC 5885
 Dual-phase 8689
 Ductile–brittle transition 3797
 Dynamic annealing 121
 Dynamic light scattering 1461, 2705, 9139
 Dynamic mechanical analysis 2899, 3087, 4021, 5451, 6655,
 Dynamic mechanical properties 1449, 4149

 Dynamic mechanical thermal analysis 3129
 Dynamic vulcanisation 1507
 Dynamics 2391, 5229
 Dynamomechanic thermal analysis 8465

 ε-caprolactone 3599
 ε-Caprolactam–L-phenylalanine copolymers 1481
 ε-Caprolactone 925, 3957
 Effect of hydration on phase behaviour 5349
 Effect of temperature 7681
 Elastic modulus 5431, 8433
 Elastomer 179, 917, 9219
 Electrical conductivity 6931
 Electrical resistance 6589
 Electrochemical studies 6955
 Electrochemical synthesis 441
 Electrocopolymerisation 839
 Electrohydrodynamic polymerisation 4065
 Electroinitiated polymerisation 7381
 Electroluminescence 5675, 7043
 Electroluminescent polymers 8095
 Electromagnetic Interference (EMI) 9305
 Electron Beam 6295, 6481
 Electron beam irradiation 1277
 Electron diffraction 2627, 3745
 Electron irradiated polyethylene 93
 Electron irradiation 185
 Electron microscopy 5513
 Electron paramagnetic resonance 1131
 Electron spin resonance 1277, 1917
 Electronic packaging materials 7941
 Electropolymerisation 3349
 Electropolymerization 423, 6473
 Electrorheological fluids 1229
 Electrostatic dissipation charge (ESD) 9305
 Elementary processes 9227
 Embrittlement 7635
 Emulsifier 5977, 7033
 Emulsion polymerization 1, 481, 1147, 1229, 4473, 5385
 Encapsulation 7941
 End group 111, 5625, 8175
 End groups analysis 9063
 End-capped 5535
 End-functionality 4409
 End-functionalized oligomers 6919
 Endotherm 8879
 Energy transfer 7539
 Energy-filtering transmission electron microscope 4599
 Enhanced nucleation 7241
 Entangled polymer blend 757
 Enthalpy relaxation 7255
 Environmental degradability 1481
 Enzymatic activity 4951
 Enzymatic degradation 3227, 4373, 5967, 6995
 Enzyme/substrate complexes 3593
 EOCs blend 7067
 Epitaxy 2613, 8909
 Epoxides 4381
 Epoxidised linseed oil 8603
 Epoxidised natural rubber 7511
 Epoxy 1731, 3425, 3631, 5053, 5777, 6341, 8363, 8375, 8579, 9033
 Epoxy curing 1577

- Epoxy resin 195, 565, 2113, 3639, 4451, 4625, 6375
 Epoxy-additives 5809
 Epoxy-imide 4077
 Epoxy-polysulfone mixtures 1027
 Epoxy–amine/polysulfone 2591, 7723, 8543
 Epoxy–poly(ether imide) blends 2657
 EPR studies 3463
 Equal channel angular extrusion 6285
 Equation of state 875, 7407
 Equilibrated gel 505
 Equilibrium swelling 3975
 Equilibrium water uptake 1287
 Erucamide (13-*cis*-docosenamide) 5819
 Erucamide/poly(laurolactam) blends 5819
 ESR 5611, 5619
 Essential work of fracture 6301
 Ethanol 7023
 Ethylcellulose 2795
 Ethylene vinyl acetate copolymer 5283
 Ethylene 2755, 6161
 Ethylene-1-octene copolymer (EOC) 7067
 Ethylene–1-hexene copolymers 5957
 Ethylene–acrylic acid 3069
 Ethylene–propylene random copolymer 6765
 Ethylene–tetrafluoroethylene 2695
 (Ethylene–vinyl alcohol) copolymer 2391
 EVAL 377
 Excimer laser 7883
 Excited state 4047
 Extended X-ray absorption fine structure 2325
 Extended-chain crystallization kinetics 8801
 Extended-chain crystals 6943
 Extended-chains 1953, 2029
 Extensional deformation 9239
 External flow field 2971
- ¹⁹F NMR 3729
 [60]Fullerene 7877
 [70]Fullerene 9291
 Fast magic angle spinning 7289
 Fast transient fluorescence technique 4915
 Fast-growing poplar wood 8409
 Fatigue 179, 795
 Ferric chloride hexahydrate 2059
 Ferroelectric transitions 6087
 Fiber spinning 8887
 Fibers 6223, 6647
 Fickian kinetics 2521
 Filled elastomers 5909
 Fillers 8455
 Film thickness 629
 Films 5577
 Fish oil 4849
 Fish oil polymers 7925
 Flame retardancy 3631, 5053, 6113
 Flexible cyclic groups 6603
 Flexible ether linkages 3581
 Flory–Huggins theory 8331
 Flow-induced crystallization 1541
 Fluorescence 1571
 Fluorescence probes 991
 Fluorinated acrylates and methacrylates 3159
- Fluorinated polyimides 6213
 Fluoro-polyetherketone 2301
 Fluoroalkyl end-capped oligomer 397
 Fluorosilicone 5125
 Foam 285, 6981
 Fold planes 8983
 Force microscopy 2313
 Forced Rayleigh scattering 3659
 Form birefringence 4747
 Formaldehyde/phenol ratio (F/P) 6797
 Fourier transform infrared linear dichroism 2961
 Fourier transform infrared spectroscopy 1597
 Fractionated crystallization 1409
 Fracture 8363
 Fracture toughness 7559, 8375, 9249
 Fragility 2907, 8625
 Fragrant fiber 4567
 Free induction decay 311
 Free radical copolymerization 8001
 Free radical crosslinking copolymerization 3093
 Free radical grafting 3137, 3523
 Free radical polymerization 3895
 Free radical telomerization 5643
 Free volume 8419
 Free volume diffusion 639
 Free volume theory 4751, 7723
 Free-radical copolymerization 2053
 Free-radical emulsion polymerisation 8633
 Free-radical grafting 4367
 Free-radical mechanism 6519
 Free-radical polymerization 8183
 Freeze-dried 7605
 Freezing 6361
 Frustration 8921
 FT-NIR spectroscopy 565, 5611
 FTIR spectroscopy 1669, 2439, 6965
 FTIR–ATR depth profile 2521
 Fuel tank sealant 5125
 Full, Sequential IPN 4699
 Fullerene 2807
 Functionalization 4389
 Functionalized polymers 3671
 Functionalized polythiophene 9147
 Furfurylic alcohol 8263
- γ Irradiation 2871
 Gas permeation 1765, 4437
 Gas phase polymerization 8703
 Gas-sorption 511
 Gel behaviour 7691
 Gel crystallization 1791
 Gel permeation chromatography 6825
 Gel point 917
 Gel time 4203
 Gelatin 2319, 6833, 7589
 Gelation and vitrification transitions 5949
 Gelation 1045, 1321
 Gels 4793, 7451, 8523
 Ginzburg–Landau model 2569
 Glass fiber reinforced 7165
 Glass formers 2907, 8625
 Glass transition 1841, 2227, 2907, 3615, 5799, 8625
- Glass transition temperature and micro-hardness 3047
 Glass transition temperature 2183, 4467, 6271, 7051
 Glassy polyarylate 629
 Glassy polymers 3659, 6613, 9249
 Glassy states 4143
 Glucose-sensitivity 3975
 Glutamates 5437
 Glycolic acid 4589
 Glycolysis 461
 Graded index polymer optical fibers 9155
 Graft copolymer 5063, 7011
 Graft copolymerization 3279, 6701
 Graft copolymers 73, 1905, 6431
 Graft polymerization 1551, 4099
 Graft-like complexes 6919, 8697
 Grafting 323, 489, 3491
 Grating 733
 Gravimetric-sorption method 1109
 Grazing-incidence diffraction 277
 GRGD peptide 7595
 Group transfer polymerisation 3173
 Growth kinetics 9169
- ¹H NMR 6021, 7951
²H NMR 4281
 H₁₂MDI 2203
 H⁺beam 185
 Hard domain 6981
 Hard domain morphology 6987
 HDPE 5443, 8401, 8741
 He²⁺beam 185
 Headspace-gas chromatography 8587
 Heat shrink polymer 93
 Hemicelluloses 2647
 Heteroarm star copolymers 1607
 Heteroepitaxy 1139
 Heterogeneity 6843
 Heterogeneous catalysis 8263
 Heterogeneous distribution 7539
 Heterogeneous hydrolysis mechanism 1087
 Hexablock copolymer 5185
 Hexadecyltrimethylammonium bromide 2127
 Hexafluoropropylene 7355
 Hexagonal phase 1193
 Hexamethylenediamine 3531
 High conversion 8155
 High density polyethylene 7279
 High energy radiation 323
 High impact polystyrene 5415
 High performance liquid chromatography 4965
 High pressure 1183, 3411, 6943
 High speed spinning 2931
 High temperature dynamics 675
 High-amylose starch 3875
 High-density polyethylene 4863
 High-modulus 6061
 High-pressure calorimetry 8869
 High-resolution ¹³C nuclear magnetic resonance 743
 High-resolution solid-state ¹³C NMR 2989
 High-speed melt spinning 8139
 Highly drawn products 8291

- Highly monodisperse polystyrene particles 6181
 Hindered-amine light stabilisers 6949, 7969
 Homogeneous ethylene-1-octene copolymers 3411, 4889
 Homogeneous ethylene-1-alkene copolymers 3437
 Homogenization 1883, 5909
 Hornification 4691
 Horseradish peroxidase 8183
 Hot-tool welding 4317
 Hybrid siloxane networks 5269
 Hybrids 3841, 5461
 Hydrazine 473
 Hydroboration polymerization 5047
 Hydrogel formation 3693
 Hydrogels 3651, 3993, 4543, 4461, 4943, 5737, 5885, 6133, 6335, 7091, 7715, 8523, 9081
 Hydrogen 6161
 Hydrogen bonding 849, 3303, 6919, 8321, 8697
 Hydrogen peroxide 2647
 Hydrogenated acrylonitrile–butadiene rubber 7583
 Hydrogenated C-9 resin 5207
 Hydrogenation 907, 5195
 Hydrogenolysis 6161
 Hydrolysis 2481, 3621
 Hydrolytic copolymerization 1481
 Hydrolytic degradation 2765, 5967
 Hydronamic dimensions 1607
 Hydrophilic amino compounds 397
 Hydrophilicity 1703
 Hydrophobic dissociation 505
 Hydrophobic interactions 7647
 Hydrophobic spin probe 1131
 Hydrophobically modified ethyl hydroxyethyl cellulose 1377
 Hydrosilylation polymerization 4423
 Hydroxyl acid 3599
 Hydroxyl terminated polybutadiene 6773
 Hydroxylation 1703
 (Hydroxypropyl) cellulose methacrylate 7691
 Hydroxypropylcellulose 533, 2127, 4357
 Hydroxypropylcellulose methacrylate 533
 Hyperbranched aramids 4951
 Hyperbranched copolymer 8299
 Hyperbranched polymers 3193, 4549, 6081, 7705
 Hyphenated techniques 4039
 Imide oligomers 5073
 Imidization process 3615
 Imidized acrylic polymer 225, 239, 335, 8041, 8053
 Immiscible blends 1409
 Immiscible polymer blends 1765, 6263, 9163
 Immunolatices 8565
 Immunological agglutination 8565
 Impact fracture 1529
 Impact modified polypropylene 3809
 Impact resistance 3809
 Imprinted polymer 5583
 Improved fire resistance 5083
 In situ polymerization 1749
 In-situ study 8887
 Inclusion compounds 5871
 Induced circular dichroism 6415
 Inhibition 5385
 Iniferter 6709
 Initial polymer concentration 9055
 Initiator 7201
 Inorganic particle toughening 8375
 Intelligent polymers 8247
 Inter-particle distance 269
 Interaction 5793
 Interaction parameter 883, 5669
 Intercalation 3887
 Intercalation polymerization 2029
 Interdiffusion 7539
 Interface 357, 7627, 9249
 Interfacial adhesion 2105
 Interfacial force microscope 4761
 Interfacial interaction 161
 Interfacial polymerization 4991
 Interfacial precipitation 4567
 Interfacial tension 4089, 6683, 6695
 Interfacial-gel polymerization 9155
 Intermolecular excluded volume effect 499
 Interpenetrating networks 7915
 Interpenetrating polymer networks 2893, 7961
 Interpenetrating structure of the dispersed phase 5653
 Interpolymer complexes 4943, 5793, 7647
 Intrachain hydrogen bonding 7399
 Intrinsic fluorescence 7589
 Intrinsic viscosity 499, 2865, 5531
 Inulin 8009
 Inverse gas chromatography 2855
 Inverse microemulsion polymerization 1269
 Ion transport 3651
 Ion transport and water dissociation 6627
 Ionic conduction 4531
 Ionic conductivity 6103, 6755, 8689, 9049
 Ionization 7647
 Ionomers 787, 891, 2325, 3069, 3099, 6311
 iPP 3751
 Irradiation 111, 2511
 Irreversible phase transition 4119
 Isocyanurates 57
 Isomers 2203
 Isotactic poly(methyl methacrylate) 1045
 Isotactic polypropene 3483
 Isotactic polypropylene 155, 1139, 1541, 2613, 2947, 3797, 4863, 7241, 8931
 Isothermal and non-isothermal crystallization kinetics 891
 Isothermal crystallization 203, 7843
 Isothermal thickening 8761
 Itaconic acid 1391
 Izod impact strength 6067
 Keller 8755
 Ketal-protected polymer 149
 Kevlar® fibers 4761
 Kinetic and mechanistic studies 7381
 Kinetic model 4549
 Kinetics 3167, 3425, 4573, 5643, 8703
 Kinetics of crystallization 4137
 Kinetics of phase separation 3759
 Kinked aromatic copolymers 3791
 Kraft pulp fibres 2121
 L-lactide 7321
 Lactam polymerization 3111
 Lactic acid 4841
 Lactide 391
 Ladder polymer 2009
 Ladderlike polyphenylsilsesquioxane 2827
 Lamellar crystal structure 8961
 Lamellar doubling 8983
 Lamellar morphology 621, 867, 4729
 Lamellar thickness 1087
 Lamination 489
 Lariat effects 7111
 Latent 9033
 Lateral habits 8573
 Latex 5695
 Latex content 7531
 Latex films 7641
 Lattice 6151
 Lattice contraction 639
 Lattice deformation 2577
 Lattice fluid theory 5257
 Lattice model 6189
 Lattice simulations 1003
 Lattice-fluid corresponding states 7407
 Layer-by-layer 7499
 Layered structure 899
 LB film 5525
 LCST 8597
 Leaderman model 5443
 LED 7339
 Li–Tanaka equation 8735
 Light microscopy 1865
 Light scattering 2883, 4483, 4825, 5847, 7993, 8009, 8681
 Light scattering technique 2535
 Light-emitting polymeric devices 2603
 Light-emitting polymers 2603
 Lignin 8409
 Limiting crack velocity 4881
 Linear low-density polyethylene 9205
 Linear paracrystalline model 5689
 Lipase PS 3593
 Lipid vesicle 7231
 Liquid crystal 1849, 2295
 Liquid crystalline copolyester 9299
 Liquid crystalline nature 8897
 Liquid crystalline polyester 8953
 Liquid crystalline polymers 3069, 3103, 3471, 6145, 6189, 7297, 7391
 Liquid crystalline side groups 2961
 Liquid crystalline thermosets 7617
 Liquid-crystalline polymers 4179, 6619, 6647, 7785
 Liquid–liquid dispersion 595
 Lithium salts 3365
 Lithography 6691
 Living cationic and radical polymerization 6709
 Living/controlled radical polymerization 7347
 Living metathesis polymerization 4429
 Living ring-opening metathesis polymerization 2773
 LLDPE 2915

- Long alkane carboxylic diacids 3531
 Long-chain branching 3985
 Long-range interactions 3337
 Longitudinal acoustic mode 8775
 Loose star-structure 8299
 Loss modulus 9131
 Loss tangent 2227
 Low density polyethylene 93, 7969
 Low molecular weight and polydispersity 7437
 Low molecular weight poly(β -hydroxybutyrate) 1087
 Low molecular weight products 2331
 Low profile additive 711, 3861
 Low temperature cure 685
 Low-density polyethylene 1055
 Low-frequency Raman scattering 751
 Low-voltage transmission electron microscopy 4909
 Lower critical solution temperature 5375, 5713, 7951
 Luminescence 1277, 2113
- Machine-draw and transverse-draw ratios 2213
 Macro-oriented network 7785
 Macroinimer 539
 Macromolecular branching 575
 Macromolecular thiols 35
 Macromonomeric azoinitiator 539
 Macromonomers 1251, 2053, 5165
 Macrozwitterionic 8175
 MADQUAT 1269
 Magic angle spinning technique 5921
 Magic-angle spinning 3729
 Magnetic birefringence 809
 Magnetic nanoparticles 8461
 Magnetic orientation 155, 809
 MALDI-TOF mass spectrometry 4039
 Maleate grafting 4389
 Maleated EPR 8061
 Maleates 1147
 Maleic acid copolymers 3683
 Maleic anhydride 4367, 5929
 Maleic anhydride grafted polypropylene 891, 1989
 Maleimide 1633
 Maltodextrin 2319
 Mass spectrometry 2219
 Mass uptake 1287
 Mathematical models 6263
 Matrix-assisted laser desorption/ionisation-collision induced dissociation 7437
 Matrix-assisted laser desorption/ionisation-time of flight 6015
 Maximum draw ratio 9055
 MDI 5247
 Mechanical 5229
 Mechanical attrition 6271
 Mechanical behavior 351
 Mechanical degradation 7611
 Mechanical milling 6271, 7147
 Mechanical properties 1817, 1849, 2231, 3499, 6395, 7175, 9265
 Mechanical relaxations 1963, 4811
 Mechanical spectroscopy 6613
 Mechanism 3121
- Mechanisms of membrane formation by wet-phase separation 9227
 Medium-density polyethylene 9123
 Melt crystallization 8825
 Melt spinning 1497
 Melt-spun high acrylonitrile fibers 3357
 Melting of polymer crystals 8941
 Melting 883, 2781, 4233, 6237
 Membrane potential and current–voltage measurements 6627
 Membrane resistance 2795
 Membranes 3651, 5461
 Memory effect 1757
 Memory of initial structure 8291
 Merocyanine 6415
 Mesitylborane 5047
 Mesophase 1217
 Mesophase packing 4501
 Mesopore 5885
 Metal oxides 8461
 Metal-ion 5525
 Metallocene 4233, 7175
 Metallocene catalyst 1621, 3985, 4005, 4523
 Metallocene catalysts 5957
 Metallomesogens 6423
 Metathesis 467
 Metathetical degradation 827
 Methacrylated dextran 5563
 Methacrylic acid 3609
 Methacrylic monomers 7303
 Methanol treatment 7361
 Methyl methacrylate 4473, 6715, 7193, 9103
 Methylcellulose 2451
 Micellar copolymers 831
 Micelle 5367
 Micelle-like structure 8697
 Micellisation 3173
 Micro-thermal analysis 3087
 Microbeam X-ray diffraction 2627
 Microgels 481, 6335
 Microhardness 3047, 5431, 6895, 7635, 7769
 Microindentation 6895
 Micromechanics 1883, 5541
 Microphase separation 7283
 Microphase-separated structures 5185, 5219
 Microporous membrane 4309
 Microscopic model 8833
 Microscopy 1157
 Microspheres 4781, 5563
 Microstructure orientation 4671
 Microstructures 1551, 4113, 4267, 6123
 Microvoid 3861
 Microwave 4361
 Microwave irradiation 7877
 Microwave plasma 3159
 Miscibility 663, 1429, 1469, 1773, 2701, 3303, 3471, 4737, 5195, 5993, 6003, 6145, 6251, 6375, 6563, 6663, 6671, 8721, 9299
 Miscibility behavior 9095
 Miscibility of blends 7051
 Miscible polymer blends 9191
 Mitsunobu reaction 5237
 MMT 8557
- Model compounds 3137, 3523
 Model networks 615, 8523
 Modelling 985, 2491, 4057, 4881, 6875, 8349
 Modulated differential scanning calorimetry 5949
 Modulated-temperature DSC 8161
 Moisture 1827
 Molecular characterization 947
 Molecular complex 3737
 Molecular composite 1749
 Molecular composites 8103
 Molecular dynamics simulations 3337, 7209
 Molecular heterogeneities 2915
 Molecular imprinting 5583
 Molecular mobility 3713
 Molecular modeling 2937, 8283
 Molecular motion 6573
 Molecular orientation 3357, 6285
 Molecular reinforcement 1905
 Molecular relaxations 2249
 Molecular simulation 4169
 Molecular structure 4249
 Molecular transport 7511
 Molecular weight 6301
 Molecular weight average 259
 Molecular weight distribution 481, 4573, 7459
 Molybdenum 4345
 Monodisperse *n*-alkanes 1953, 8801
 Monolayer 5525
 Monomer reactivity ratios 6021
 Monomer swelling procedure 6181
 Monte Carlo simulation 3289, 5643, 6387, 8703
 Montmorillonite 7083
 Morphology 351, 453, 733, 795, 1507, 2813, 3205, 4513, 8083, 8615, 8975
 Morphology maps 1621
 Multi-pathway model 8857
 Multiangle laser light scattering detector 1615
 Multicomponent PP composites 1529
 Multigrade oils 6323
 Multiple melting behavior 121, 8879
 Multiple melting 7471
 Muon 3455
 Mutual diffusion coefficient 8441
- Nafion 4223
n-Alkanes 8761, 8791
 Nano-structures 1395
 Nanocomposites 1345, 2813, 3887, 6935, 7083, 8557
 Nanofibrils 7735
 Nanomechanical properties 4761
 Nanoparticle 6415
 Nanoporous gas transport 4671
 NaOH catalyst 6975
 Naphthalene 3631
 Naphthalimidides 2367
 Naphthoylebenzimidazoles 2367
 Natural polymer chitosan 2157
 Natural rubber 323, 2359, 3167, 3405, 5929, 7483, 9049, 9219
 Near infrared spectroscopy 8221

- Neodymium versatate 5903
 Neopentyl glycol dimethacrylate 1321
Nephila edulis 1223
 Network 141, 4179, 6647
 Network parameter 3129
 Network polysilane 441
 Network structure 615, 3821
 Neutron reflectivity 2701
 Neutron scattering 9239
 Nickel catalyst 2691
N-isopropylacrylamide 7133, 7231, 7575, 7951
 Nitrile rubber 5485
 Nitroaromatic compounds 8017
 Nitroxide-mediated living free-radical polymerization 4573
N-methylated block copolyamides 3111
N-methylated polyamide 7653, 7667
N-methylolacrylamide 2033
 NMR 1167, 1175, 1183, 1193, 2871, 3019, 4189, 4643, 5921, 8615, 9081
 NMR spectroscopy 101, 2431, 8501
N,N-dimethylformamide 473
N,N'-Methylenebis(acrylamide) (Bis) 8735
 Noble metal 1627
 Non-elastic deformation 1857
 Non-equilibrium chemical potential 8425
 Non-Fickian kinetics 8641
 Non-isothermal 6875
 Nonequilibrium chemical potential 2633
 Nonlinear dielectricity 6087
 Nonlinear optical organic materials 415
 Nonlinear optics 2583, 3507, 6049
 Nonlinear transport 8543
 Nonterminal units effect 3883
 Norbornene macromonomer 4345
 Norbornene 6939, 8813
 Normal mode analysis 2095
 Noryl 2947
 Novolac 101
 Nuclear magnetic resonance 4965, 7263
 Nucleation 8781
 Nucleophilic displacement 2737
 Nucleophilic substitution 3331
 Numerical simulation 6589
N-vinylcarbazole 7043
 Nylon 225, 239, 335, 6003, 6671
 Nylon 4 6 6457
 Nylon 46 8961
 Nylon 5 8961
 Nylon 6 2295, 5689, 6457, 7165, 7699, 8041, 8053, 8061
 Nylon 6,6 5471
 Nylon 6 blends and polymorphs 4923
 Nylons 5437
 Olefin polymerization 4005
 Oligo(ethylene glycol) alkoxides 7865
 Oligo(ethylene glycol)_n dimethacrylate 3821
 Oligocarbonate diols 9013
 Oligoethers 5021
 Oligomeric MDI isocyanate 5405
 Oligomers 2359, 6457
 Oligothiophene 5681
 One-step wet spinning process 2265
 Optical and X-ray diffraction analysis 3357
 Optical resins 8305
 Optical spectroscopy 6955
 Optically active polyamides 4869
 Order to disorder transition 719
 Ordered structure 155
 Organic–inorganic hybrids 1449
 Organic–inorganic polystyrenes 3913
 Organoboron polymers 5047
 Organofunctional polydimethylsiloxane modification 5083
 Orientation 1077, 7139, 7793, 7803
 Oriented crystallization 6679
Ortho-linked 6537
 Orthorhombic–hexagonal transition 6237
 Osmotic cracking 2481
 Osmotic second-virial-coefficient data 219
 Oxidation 9, 1037, 5681
 Oxidative induction time 9123
 Oxide-type support 3937
 Oxidoreductase 8183
 Oxyanionic polymerization 8501
 Oxygen 5385
 Oxygen plasma 6851
 Oxymethylation 3555
 Ozonolysis 2359
 PA 11/sulfonated polysulfone blends 9095
 PALS 6251
 Paraformaldehyde 3555
 Paris low 1119
 Partial blend miscibility 5759
 Particle cavitation 5865
 Particle nucleation loci 4473
 Particle track-etched membranes 1
 Particulate membranes 377
 Partitioning equilibrium 1003
 Pb²⁺-containing resins 8305
 PECH–PEO 2349
 PEEK film 2339
 Pendant group 3581
 PEO/PES blend 1395
 PEO/SiO₂ hybrid 2041
 Percolation networks 615
 Perfluorinated 5675, 7905
 Perfluorinated ionomer 5829
 Perfluorinated ionomer membrane 4223
 Perfluorocyclobutane 5125, 6213
 Perfluoropolyether 409
 Permeability 7489
 Peroxide 6497
 Perturbation theory 875
 Pervaporation 2047, 2795
 PET 1217
 PET fiber 6061
 PET/HDPE blends 4817
 PET/PP alloys 2543
 pH 3311
 Phase angle 8941
 Phase behaviour 533, 2231, 4357, 6395, 7773, 8597
 Phase diagrams 1377, 4089, 5257, 5375, 8869
 Phase equilibria 875
 Phase imaging 2121
 Phase inversion 975, 4309
 Phase morphology 4923, 7099
 Phase precipitation 4625
 Phase separation 649, 685, 697, 757, 765, 1027, 1577, 5513, 6843, 8311
 Phase separation dynamics 6387
 Phase stability 8455
 Phase structure 9283
 Phase transfer catalysis 8205
 Phase transformations 8953
 Phase transitions 1175, 4709
 Phenazine 2009
 Phenol 5707
 Phenol-formaldehyde 1973
 Phenol–formaldehyde resins 1679, 7123
 Phenolic resin 3243
 Phenolic 5053, 9033
 Phenolic/PEO blend 101
 Phenylacetylene 2691
 Phenylenevinylene copolymers 2309
 Phenylethynyl 5109
 Phenylethynyl groups 5073
 Phenylquinoxaline oligomers 5095
 Phonon dispersion 2095
 Phosphonium salts 6035
 Phosphorus 4029, 8579
 Phosphorus-containing polyetherketones 2301
 Phosphorylation 4531
 Photo- and electro-luminescence 7339
 Photo-polymerization 8113
 Photo-stabilisation 7969
 Photochemical phase transition 1757
 Photochemistry 3905
 Photochromic optically active polymers 4767
 Photoconductivity 467
 Photodegradation 1657, 3297, 5721
 Photoinduced anisotropy 3235
 Photoinduced electron transfer 2807
 Photoinitiation 8017
 Photoinitiator 445
 Photoluminescence 2309, 6581
 Photoluminescent polymers 8095
 Photon transmission 6335, 7531
 Photon transmission technique 3093
 Photooxidation 917, 1669, 1981
 Photopolymerization 7681, 7715, 7871, 8017, 9103
 Photoreactive polymer 7883
 Photorefractive 5011
 Photoresist 4013
 Photoresistor 1731
 Photoresponsive properties 4767
 Photosensitization 445
 Physical aging 629, 743, 7255, 7427, 9191
 Physical aging process 639
 Physical properties 3111
 Physico-mechanical behavior 5909
 Plasma polymer deposition 7355
 Plasma polymer film 511
 Plastic deformation 2271
 Plastic deformation mechanisms 1561
 Plasticization 5777, 6969
 Plasticizer 4401
 Pluronic triblock copolymers 4679
 PMMA/SAN 5895
 PNLC 1325
 Polar–nonpolar block copolymer 7283
 Polarized FTIR 3235

- Poly acrylamide (PAAm) gels 8735
 Poly (ethylene terephthalate) 6223
 Poly maleimide 6049
 Poly-1,3 butylene adipate 4401
 Poly-ion complexation 141
 Poly(α -alkyl- β -L-aspartate)s 4169
 Poly(β -aspartate)s 8475
 Poly(ϵ -caprolactone) nanoparticles 3593
 Poly(ϵ -caprolactone) 4099, 7223, 8975
 Poly(1-vinyl-2-pyrrolidone) 4831
 Poly(1,2 bis(2-methylpropenoxy)ethane-co-divinylbenzene) 595
 Poly(1,4-dioxaspiro[4.4]nonane-2-methyl methacrylate) 149
 Poly(1,4-phenylenevinylene) derivative 5675
 Poly(2-butyl β -malate) 3705
 Poly(2-hydroxyalkyl methacrylate) 1627
 Poly(3-alkylthiophene)s 2047, 3147, 9147
 Poly(3-hydroxyalkanoate) 1703
 Poly(3-hydroxybutyrate) 3227, 5749, 7369
 Poly(3-methoxythiophene) 4047
 Poly(3,3-dimethyl-2-butyl β -malate) 3705
 Poly(3,3'-dimethylpropene) 6691
 Poly(3,4-dialkyl-2,2'-bithiophene)s 3147
 Poly(3,4-ethylenedioxythiophene) 4491
 Poly(4-methyl pentene-1) 8869
 Poly(4-vinyl pyridine) 2705
 Poly(4-vinylpyridine)-*b*-polybutadiene-*b*-poly(4-vinylpyridine) 5601
 Poly(*N*-isopropylacrylamide) 545, 4543, 6133, 7399
 Poly(*N*-isopropylacrylamide) gels 505
 Poly(*N*-methyl-4-piperidyl methacrylate) 211
 Poly(*N*-vinyl caprolactam) 6507, 8597, 9139
 Poly(*N*-vinyl pyrrolidone) 5327
 Poly(*N*-vinyl pyrrolidone)-poly(ethylene glycol) blends 5349
 Poly(*N*-vinylcarbazole) 2807
 Poly(*N,N*-diethylacrylamide) 8681
 Poly(*O*-acetyl, L-serine) 2095
 Poly(*p*-methylstyrene) 9291
 Poly(*p*-phenylene terephthalamide) 8103
 Poly(*p*-phenylene) 965
 Poly(*p*-xylylene) 2379
 Poly(*t*-butyl acrylate) 4467
 Poly(L-lactic acid) 859
 Poly(L-lactic) acid (PLLA) 8027
 Poly(L-lactic)-co-polyglycolic acid copolymers (PLLA-*co*-PGA) 8027
 Poly(L-lactide) 6439
 Poly(L-lactide) microcapsules 4567
 Poly(acrylamide) 5729
 Poly(acrylamido-*co*-2-acrylamido-2-methyl-1-propanesulphoninicacid) (poly(AAm-*co*-AMPS)) 2535
 Poly(acrylic acid) 751, 7399
 Poly(aniline-*co*-N-propylbenzenesulfonic acid aniline) 813
 Poly(aryl ether)s 6581
 Poly(arylene ether benzimidazole) 169
 Poly(arylene vinylene)s 2743
 Poly(arylenether)ketones 959
 Poly(arylenether)sulfones 959
 Poly(butylene succinate) film 9055
 Poly(carbonate) 6749
 Poly(chloro-*p*-xylylene) 2379
 Poly(cyano-*p*-xylylene) 2937
 Poly(decamethylene maleate) 1487
 Poly(*di*-*iso*-propyl itaconate) 5769
 Poly(*di*-*n*-propyl itaconate) 5769
 Poly(diethylsiloxane) synthesis 6975
 Poly(dimethylsiloxane) 453, 3083
 Poly(enaminonitriles) 4991
 Poly(epichlorohydrin-*co*-ethylene oxide) 1429
 Poly(ester amide)s 2765, 6995
 Poly(ester-imide) 4709
 Poly(estercarbonate) 1773
 Poly(ether ether ketone) 2339
 Poly(ether ether ketone)/polyetherimide blends 6803
 Poly(ether ether sulphone) 2001
 Poly(ether imide) 4743
 Poly(ether sulphone) 2001, 4513
 Poly(ether urethane amide) 6519
 Poly(etherimide) 8709
 Poly(ethylene glycol) 73, 5327, 7595, 8075
 Poly(ethylene naphthalate) 4933, 6301
 Poly(ethylene naphthalene-2,6-dicarboxylate) 7769
 Poly(ethylene oxide) 1711, 2711, 3173, 5157, 6663, 7605, 9049
 Poly(ethylene oxide) grafted polymer 5921
 Poly(ethylene oxide) sulfonic acid 2149, 4057
 Poly(ethylene succinate) 5157
 Poly(ethylene terephthalate) 461, 771, 809, 1719, 1741, 1773, 1791, 2183, 2727, 2931, 3965, 4143, 4285, 4445, 5707, 5809, 6943, 6965, 7139, 7147, 7793, 7803
 Poly(ethylene terephthalate)-modified copolymer 3541
 Poly(ethylene terephthalate)Photolysis 3541
 Poly(ethylene-2,6-naphthalate) 8139
 Poly(ethylene-2,6-naphthalene-dicarboxylate)(PEN) 1099
 Poly(ethylene-*co*-methyl acrylate) 4367
 Poly(ferroenylidemethylsilane) 719
 Poly(glycolic acid) 8725
 Poly(isothianaphthene) 3121
 Poly(lactic acid) 3621
 Poly(lactide) 3621
 Poly(laurolactam) (nylon 12) 5819
 Poly(macromonomer) 5165
 Poly(methacrylic acid) salts 4213
 Poly(methyl acrylate) 3099
 Poly(methyl metacrylate) gels 4915
 Poly(methyl methacrylate-*b*-poly(isooctyl acrylate)-*b*-poly(methyl methacrylate) 4617
 Poly(methyl methacrylate) 1251, 1461, 1571, 1615, 5535, 6015, 6375, 8641
 Poly(methylmethacrylate) 6067
 Poly(MMA-*co*-AA) copolymer 5551
 Poly(oxy-1-chloromethyl-ethylene-*co*-oxyethylene) 7331
 Poly(oxy-1,4-phenyleneoxy-1,4-phenylene-carbonyl-1,4-phenylene)(PEEK) 1099, 1167
 Poly(oxyethylene) 2405
 Poly(oxymethylene) 111
 Poly(oxypropylene) triol 5305
 Poly(phenyl methacrylate) 6663
 Poly(phenylene sulfide sulfone) 5137
 Poly(phenylene vinylene)s 7003, 7339
 Poly(polyethers-*block*-polyamides) 3561
 Poly(propylene) 1497
 Poly(propylene fumarate) 7595
 Poly(propylene oxide) 8103
 Poly(pyridinium salts)s 5001
 Poly(pyridinium triflate)s 5001
 Poly(quaternary ammonium salt) 5591
 Poly(silyl ethers) 4423
 Poly(styrene-*b*- ϵ -caprolactone) 9073
 Poly(styrene-*b*-isobutylene-*b*-styrene) block copolymers 3205
 Poly(styrene-*block*-butadiene) 2439
 Poly(styrene-*co*-maleic anhydride) 4445
 Poly(styrene-*b*-butylmethacrylate) diblock copolymer 2231
 Poly(styrene-*divinylbenzene*) resins 7273
 Poly(styrene) polymers 7437
 Poly(styrenesulfonate) salt 211
 Poly(tartaramide)s 4869
 Poly(tartarester amide)s 2765
 Poly(tetrafluoroethylene) surface 6573
 Poly(tetrafluoroethylene) 4863
 Poly(tetramethylene succinate) copolymer 4373
 Poly(tetramethylene succinate) 4719
 Poly(thioarylenes) 2737
 Poly(trifluoroethylene) 3729
 Poly(urethane dimethacrylate) 3129
 Poly(VDF-TrFE) 6087
 Poly(vinyl alcohol) 2033, 2847, 4461, 4531, 5633, 6729, 7715
 Poly(vinyl alcohol) crosslinking 9265
 Poly(vinyl alcohol)-*g*-poly(lactic-*co*-glycolic acid) 4781
 Poly(vinyl chloride) 3331, 5405, 5577
 Poly(vinyl methyl ether) 1981, 3737, 9073
 Poly(vinylidene fluoride) 1685, 2695, 5551, 7289, 8311
 Poly(vinylpyridine) 6563
 Poly(vinylsaccharides) 821
 Poly(*styrene/diphenylethylene*) 6635
 Poly2-(3-methyl-3-phenylcyclobutyl)-2-hydroxyethyl methacrylate and its copolymers 2855
 Poly([*R*]-3-hydroxybutyric acid] 867
 Poly([*S*]-lactide] 5985
 Poly[5-(*N,N*-dimethylamino)-isoprene] 7981
 Poly[ether-*block*-ester-*block*-amide] 1893
 Polyacetylene 467
 Polyacrylamide composites 5361
 Polyacrylamide 27
 Polyacrylonitrile 385
 Polyalkylthiophene 5839
 Polyamide-6 1055, 4361, 5283, 5929, 6537, 6813
 Polyamides 3531, 4651, 5437, 7773, 8193
 Polyampholyte 5591
 Polyaniline 2029, 3253, 3279, 4757, 9305
 Polyaniline fibres 2265
 Polyaniline-nylon 6 composite films 9
 Polyanilines 8387

- Polybenzimidazole 975, 2009
 Polybenzobisimidazole model compound 9003
 Polybenzoilenebenzimidazoles 49
 Polybenzoxazine 7083
 Polyblends 7583
 Polybutadiene 17, 4351, 6519
 Polybutene 2313
 Polybutylene succinate 8449
 Polybutylene terephthalate 5297
 Polycaprolactone 1297, 3875, 4157, 8027
 Polycaprolactone–polystyrene blends 5513
 Polycarbonate 1731, 2289, 3391, 4309, 5551, 7391
 Polycarbonate blends 4909
 Polycarbonate diols 8531
 Polycarbonate/poly(styrene-co-acrylonitrile) blends 4267
 Polycarbonate/polyester blends 5759
 Polycondensation 3371, 3555, 4549, 5039, 7057, 8725
 Polycyanurates 4513
 Polydiene 2557
 Polydimethylsiloxane 367, 6403, 6851, 6885
 Polydispersity 6885
 Polyelectrolyte 985, 2149, 5591, 5713
 Polyelectrolyte complex 2373
 Polyelectrolyte solutions 3683
 Polyelectrolyte copolymer gels 2535
 Polyester 2481, 6741, 7815
 Polyesteramides 1157, 3965
 Polyesters 391, 8193
 Polyether 849
 Polyetheretherketone 1063
 Polyethers 2471, 7415, 8193
 Polyethersulfone and polysulfone 8587
 Polyethersulfone 4451
 Polyethylene 575, 1037, 1139, 1175, 1183, 1193, 1475, 1621, 1883, 2133, 2511, 2979, 2999, 3047, 3985, 4661, 5787, 6481, 6497, 6935, 7175, 7915, 8291, 8825, 9205
 Polyethylene blends 4579
 Polyethylene films 8151
 Polyethylene glycol 1257
 Polyethylene glycol methacrylate 1257
 Polyethylene implants 7635
 Polyethylene naphthalate 4249
 Polyethylene/lignin blends 4901
 Polyethyleneoxide 4825
 Polyfunctional monomer 7459
 Polygalacturonic acid 2373
 Polyhedral oligomeric silsesquioxane 7209
 Polyhydroxalkanoates 3499
 Polyimide 169, 2583, 3253, 4793, 5011, 5021, 5237, 6043, 6913, 8167, 8709
 Polyimide/copper system 6553
 Polyisoprene 1669
 Polylactide 2331, 3395, 8909, 8921
 Polylysine 7231
 Polymer bipolar ion-exchange membranes 6627
 Polymer blends 933, 1337, 1469, 1799, 2847, 3029, 3087, 3671, 4021, 4909, 5541, 5895, 5971, 5985, 6003, 6671, 6865, 7099, 7297, 7407, 7855, 8161, 8321, 8455, 8717, 9073
 Polymer composite 8075
 Polymer crystallisation 8849
 Polymer crystallization 1519, 4119, 8833, 8839, 8857
 Polymer degradation 7611
 Polymer dimensions 499
 Polymer dispersions 2883
 Polymer dissolution 6729
 Polymer electrolytes 3365, 4057, 6755, 8075, 8689
 Polymer fractionation 2915
 Polymer gel electrolyte 3821
 Polymer ionic association 5361
 Polymer liquid crystal 4357
 Polymer matrix 991
 Polymer migration 2633, 8425
 Polymer miscibility 1369
 Polymer mixtures 3837
 Polymer morphology 8755, 8983
 Polymer nanocomposites 8461
 Polymer particle 8673
 Polymer strengthening 6285
 Polymer structure 391
 Polymer supported cocatalyst 4005
 Polymer synthesis 8725
 Polymer thin films 4751
 Polymer-dispersed liquid crystal 733
 Polymer–polymer interaction parameter 5759, 8717, 9095
 Polymer–polymer interface 4483, 6907
 Polymer–solvent interactions 2855
 Polymer/LC composite 1325
 Polymer/LC composite films 1757
 Polymer/solvent systems 8441
 Polymeric additive 5633
 Polymeric emulsifier 6741
 Polymeric fluids 6323
 Polymeric materials 3507
 Polymeric phosphonate esters 3371
 Polymeric solid membrane 4437
 Polymeric surfactant 5695
 Polymerisation kinetics 8231
 Polymerisation mechanism 7003
 Polymerisation 1697, 6715
 Polymerization in aqueous media 6507
 Polymerization kinetics 5563
 Polymerization loci 7011
 Polymerization of ethylene 3937
 Polymerization suspension 595
 Polymerization 1641, 2289, 2691, 3159, 7043
 Polymers 725, 1109, 1937, 2871, 4599, 4881, 6295, 6423, 6695, 8791, Polymethacrylates 7915
 Polymethylmethacrylate 3391
 Polynorbornene 7209
 Polyolefin blends 2133, 5375
 Polyolefins 5315
 Polyoxadiazole 5531
 Polyoxymethylene 7283
 Polypeptide 6189
 Polyperoxides 5721
 Polyperoxides: MALDI-TOF-MS 9063
 Polyphenylenesulfide/styrene–ethylene–butylene–styrene polymer alloy 4803
 Polyphenylquinoxalines 5095
 Polyphthalimide 8709
 Polypropylene 579, 1589, 2133, 2271, 2405, 2515, 2639, 3491, 3809, 4137, 4537, 5485, 6311, 6597, 6765, 6813, 6935, 6949, 7843, 8673, 9283
 Polypropylene fibers 3841
 Polypropylene/(polyethylene terephthalate) blends 357
 Polypropylene/lignin blends 4901
 Polypyrrrole 3349, 6931, 7499
 Polypyrrrole–nylon 6 composite films 9
 Polyradical 4437
 Polysaccharides 2249, 7547
 Polysilane 6395
 Polysiloxane 5039, 7905
 Polysilsesquioxane 7559
 Polysilynes 441
 Polystyrene 367, 719, 1233, 1719, 1749, 1981, 2839, 3759
 Polystyrene nanostructures 1
 Polystyrene-*b*-polyethylenepropylene-*b*-polyethylene 2971
 Polystyrene-*block*-polyisoprene 4729
 Polystyrene-substituted C₇₀ 1233
 Polystyrene/poly(vinyl methyl ether) blends 757
 Polysulfone 1309
 Polytetrafluoroethylene 2613
 Polythiophene 5681
 Polyurethane foam 6987
 Polyurethane ionomers 3513
 Polyurethane–polyvinyl thermoplastic elastomers 5219
 Polyurethanes 57, 285, 1345, 1849, 2203, 2569, 3455, 5011, 5305, 5571, 6773, 6981, 7017
 Polyvinyl acetate 711, 5749
 Polyvinyl alcohol 6195
 Polyvinyl chloride 8659
 Polyvinylidene fluoride 3391, 7523
 POM/(PS/PPE) blends 1011, 1409
 Pore dimension 8151
 Porod analysis 3205
 Porosity 27
 Porous morphology 7273
 Positive temperature coefficient and negative temperature coefficient effects 7279
 Positron annihilation 4737, 8419
 Potassium persulfate 4491
 Potassium thioacetate 2737
 Powder diffraction 3791
 Powders 3279
 PP composites 7761
 PP/(PS/PPE) blends 1011
 PP/EPDM blends 3479, 6351
 PPyBS 4065
 Pre-polymers 9131
 Precipitation polymerization 6507
 Precuring 1027
 Precursor polymer 169
 Pressure sensitive adhesive 4021
 Pressure-induced phase separation 3759
 Processing aids 7705
 Processing stability 8401
 Propagation coefficient 1441
 Properties 8305
 Propylene adsorption 8167
 Propylene oxide 1641, 6701

- Protein absorption 3713, 8257
 Proton magnetic resonance imaging 4543
 PS/PPE mixtures 1011
 PTMSP 7489
 PU/P(UBMI–BMI) IPNs 5653
 PUA 1325
 Pull-out 6907
 Pulsed NMR 7855
 Pulsed-laser 1441
 Push–pull azobenzenes 415
 PVA 3851
 Pyrene 1571
- Quantification 1989
 Quasi-periodic alternation of electron density 5689
 Quinone methide 1973
- Radiation 575, 5787
 Radical cyclopolymerization 2831
 Radical polymerization 5611, 5619, 5625
 Radio-frequency sputtering 511
 Raman mapping 8659
 Raman scattering 1917
 Raman spectra 1223
 Raman spectroscopy 2999, 3011, 5361, 6955, 8241, 8775
 Random copolymer solutions 4089
 Random copolymers 2701, 5297
 Rayleigh scattering 2059
 Reaction mechanisms 4635
 Reactive blending 4483, 5977, 6907, 7033
 Reactive blends 3193, 4445
 Reactive extrusion 3395, 6825
 Reactive processing 1055, 3671, 5809
 Reactive surfactants 1147
 Reactive thermoplastic 8241
 Reactivity ratios 1391, 3317, 7575
 Real-time FTIR spectroscopy 7681
 Reconstituted cellulose fibres 4691
 Recrystallization 7667
 Recycling 7391
 Redox initiation 1269
 Regime crystallization 1205
 Regioregular poly(3-dodecylthiophene) 2781
 Regioregular polyalkylterthiophenes 6473
 Reinforcing filler 9219
 Relationship between the temperatures of cold crystallization and glass transition 5339
 Relative volume 3837
 Relaxation 1167, 3019, 3719, 4189, 7139
 Relaxation behaviour 6603
 Relaxation mode 5847
 Reoplex® 346 4401
 Residual stress 2105, 6913
 Residual stress distribution 9177
 Resol formation 3311, 6797
 Retardation 8633
 Reverse atom transfer radical polymerization 7347
 Reversible phase transition 4119
 Reversible swelling–shrinking 7091
 Rheo-optics 6765
 Rheological properties 8729
 Rheology 607, 2451, 3851, 4933, 6825
- Rhodium catalyst 4351
 Rigid amorphous fraction 8717
 Rigid-rod polymer fibers 9003
 Rigid-rod thermoplastic molecular composite 3213
 Rigid-rod thermoset molecular composite 3213
 Rigid–rigid polymer toughening 2947
 Ring opening polymerisation 3395
 Ring-chain equilibrium 1487
 Ring-opening metathesis polymerization 4345
 Ring-opening polymerisation 8531
 Ring-opening polymerization 3957, 7311, 7369
 Rodlike polymers 1905
 Roll casting 6231
 Rotator 8781
 Rubber 133
 Rubber modification 5865
 Rubber modified epoxy resin 6787
 Rubber toughened 7165
 Rubber toughening 4149, 5865, 5937, 6341
 Rubber-like networks 7749, 7827
 Ruthenium catalyzed 4423
- Sadler–Gilmer model 1519, 8849
 SAN–clay composite 1229
 SAN/PMMA blend 4747
 SANS 3751
 Saturated polyesters 8283
 SAXS 1791, 3751, 4691
 Scanning force microscopy 2241
 Scanning probe microscopy 4285, 5541
 Scattered light intensity 3093
 SEBS 5471
 SEBS copolymer 2069, 4389
 SEC and FAD approaches 7011
 Second-order nonlinearity 5237
 Secondary crystals 8879
 Secondary ion mass spectrometry spectra 2695
 Secondary nucleation kinetics 1205
 Secondary relaxation 2227
 Secondary transitions 2677, 2989, 4281, 5451
 Seed crosslinking density 6181
 Segmental interaction parameters 3871
 Segmental swelling 9163
 Segmented copolymers 8487
 Segmented polyurethanes 5083, 5247
 Selective solvent 9311
 Selectivity 5583
 Self-assembled fluorinated aggregates 397
 Self-assembled monolayers 8113
 Self-assembly 4679, 7499
 Self-diffusion approach 9155
 Semi-crystalline morphology 3719
 Semi-interpenetrating polymer networks 5405
 Semicrystalline copolyester 9299
 Semicrystalline polyimide 8121
 Semicrystalline polymers 1561, 1857, 4559
 Semicrystalline thermoplastics 161
 Semidilute solutions 9311
 Semiladder polymers 49
 Sensor materials 839
- Sequential monomer feed scheme 8271
 Shear 3029
 Shear flow thermal rheometer 523
 Shear yielding 8363
 Shear-induced crystallization 4933, 8931
 Short chains branched polyethylene 8573
 Short PET and PA fibers 7761
 Shrinkage control 685, 697
 Side chain liquid crystalline polymer 2961
 Side group 8897
 Side reactions 6439
 Silane 17, 4537
 Silicate layers 1345
 Silicon-containing polymer 6939
 Silicone elastomer 195
 Silicone-containing epoxy 6113
 Silk 7735
 Silkworm silk 8433
 Siloxane 849, 8205
 Siloxane-type epoxy 3263
 Silsesquioxane 2219
 Simha–Somcynsky equation-of-state theory 8419
 Simple shear flow 3289
 Simulation 6151
 Simultaneous biaxial drawing 5855
 Single crystals 2827
 Single- and multilayered films 277
 Six-membered cyclic carbonate 8531
 Size exclusion chromatography 259, 1607, 1615, 3513, 4039, 7993, 8175, 8513, 8649
 Skin core morphology 8931
 Skin-softening effect 6055
 Small angle X-ray scattering 3487, 6361, 8839, 9089
 Small- and wide-angle X-ray scattering 1497
 Small-angle neutron scattering 1309, 1873, 1947, 2557, 4943, 5829, 7133
 Small-angle X-ray scattering 2295, 3779, 5829, 8775
 Smectic 4957, 7905
 Snoek relaxation 6613
 Soap-free emulsion polymerisation 7023
 Sodium cyclopentadienide 3183
 Sodium dodecyl sulphate 7415
 Sodium polyacrylate 4643
 Soft phase 1893
 Sol–gel materials 2813
 Sol–gel process 1449, 5461
 Solid phase structure 3791
 Solid polymer electrolytes 965
 Solid state ^{117}Sn CP-MAS NMR 3913
 Solid state ^{13}C NMR 2141
 Solid state imidization 3581
 Solid state structure 899
 Solid state thermal polymerisation 5149
 Solid-state NMR 401, 1355, 1469, 1741, 2979, 5269, 8213
 Solidification under fast cooling 4143
 Solubility 1827, 2047, 4169
 Soluble poly(amic ester-*alt*-imide)s 5173
 Solution behaviour 831, 6431
 Solution properties 7993
 Solvation 4831
 Solvent effects in the miscibility 933
 Sorption isotherm 2667

- Sorption 2521
 Specific interactions 1369
 Specific rotation 6527
 Spectrophotometry 7381
 Spectroscopy 4831
 Spherulites 1157, 4957
 Spin diffusion 5269
 Spin probes 4679
 Spin-lattice relaxation 2431
 Spin-spin relaxation 311
 Spinning 4249
 Spinning drop tensiometer 6683
 Spinodal decomposition 649, 8311
 Spinodal mode 8833
 Spirobicromane 2419, 4501
 SPM 2121
 Squid chitin 2463
 Stability 6049
 Star polymer 6081
 Star-branched 5095
 Starch 1841, 6361, 9273
 Starch acetate 9273
 Starch content 9177
 Starch/synthetic polymer blends 9177
 State of poly(ethylene glycol) 5339
 State of water 5349
 Static and dynamic light scattering 3683
 Statistical segment length 4607
 Steady-state viscoelastic properties 6885
 Step-scan photoacoustic spectroscopy 1597
 Steric effects 3895
 Steric hindrance 1963
 Stimuli-responsive chiroptical behavior 6527
 Stimuli-responsive copolymer 6723
 Stimuli-responsive polymers 8247
 Stoichiometry of poly(*N*-vinyl pyrrolidone)–poly(ethylene glycol) hydrogen-bonded complex 5339
 Strain 5423
 Strain rates 4291
 Stress effects 5895
 Stress intensity factor 1119
 Stress optical rule 4747
 Stress relaxation 6341
 Stress–strain behavior 2183
 Structural analysis 2431
 Structural characterisation 4213
 Structural heterogeneity 4699
 Structural transformation 2971
 Structure inhomogeneities 2893
 Structure 2391, 5173
 Structure–activity relationship 415
 Styrene maleic anhydride 1719
 Styrene 765, 1257, 1305, 1697, 5393, 7865
 Styrene–butadiene rubber 7815
 Styrene–maleic anhydride copolymers 7255
 Styrene/acrylonitrile 8041, 8053
 Styrenic polymers 8721
 Substituted acetylenes 4429
 Substitution 8349
 Sulfobetaine copolymers 831
 Sulfonated polystyrene ionomers 3471
 Sulfur dioxide 4661
 Supercoil 3273
 Supercritical carbon dioxide 1251, 6715
 Supercritical CO₂ 3491, 5707
 Supermolecular structure 1947
 Superporous hydrogel (SPH) 8213
 Superporous hydrogel composites 8213
 Surface analysis 6597
 Surface characterization 8321, 9111
 Surface erosion 1297
 Surface graft polymerization 3609
 Surface modification 5577
 Surface properties 6851
 Surface resistivity 2405
 Surface structure 3609
 Surface wet-chemistry 2339
 Surfactant 285, 7451
 Surfactant–polymer binding 2127
 Suspension 607
 Swelling 179, 607, 1865, 2591, 4915, 7451, 8339
 Swelling and deswelling pathways 6133
 Swelling behavior 2925, 5571, 8257
 Swelling in good and selective solvents 2893
 Symmetrical bifunctional initiator 3925
 Synchrotron wide-angle diffraction 2931
 Synchrotron X-ray 8887
 Synchrotron X-ray diffraction 1541
 Synchrotron 8825
 Syndiotactic copolymers 2141
 Syndiotactic poly(*p*-methylstyrene) 3745
 Syndiotactic poly(propylene-*co*-olefin) 203
 Syndiotactic polypropylene 1139
 Syndiotactic polypropylene/polyethylene blends 351
 Syndiotactic polystyrene (s-PS) 121, 883, 1077, 2069, 6635
 Syndiotactic-polystyrene/polyethylene 8271
 Synthesis and crystallization behavior 7981
 Synthesis 2925, 4617, 5137, 7003
- T*_g 3331
 T-MDSC 8941
 Tack properties 5207
 Tacticity 4467
 tan δ curves 9131
t-Butoxy radicals 3137, 3523
t-butyllithium 5601
 Telechelic polymer 7369
 Temperature 7201
 Temperature dependent shift factors 4291
 Temperature jumps 1519
 Temperature-modulated DSC (TMDSC) 1099, 3615
 Temperature/pH sensitive hydrogel 5713
 Temporary droplet-size hysteresis 6263
 Tensile behaviour 1959
 Tensile deformation micromechanisms 3797
 Tensile deformation 7699
 Tensile properties 5653, 8433
 Tensile stress–strain dependence 7749, 7827
 Terephthalic acid 4373
 Ternary blends 7773
 Ternary composites 9283
 Ternary interaction parameters 8339, 8587
 Ternary polymer blends 3381
 Terpolymer block 1893
 Terpolymerization 1305
 Terpolymers 3499
 Tetraalkylammonium hydroxides 1679
 Tetrabutyltin 3957
 Tetrafluoroethylene–ethylene 7279
 Tetramethylbisphenol-A polycarbonate 2839
 Theory 7159
 Theory of rubber elasticity 7749, 7827
 Thermal acid generator 6691
 Thermal activation 7547
 Thermal analysis 959
 Thermal annealing 1337
 Thermal behavior and dynamic mechanical properties 7761
 Thermal characterisation 4213, 8355
 Thermal contraction 5937
 Thermal crosslinking 4013
 Thermal degradation 3303, 5721, 5769
 Thermal fractionation 4579
 Thermal oxidation 6447
 Thermal properties 8729, 9265
 Thermal sampling 7223
 Thermal shrinkage 3837
 Thermal stability 5661, 8121
 Thermal transition 7361
 Thermal treatment 6655
 Thermal-ageing 6447
 Thermally induced phase separation 8673
 Thermally stable polymers 2301
 Thermally stimulated depolarization current 7223
 Thermo-oxidation 4077
 Thermo-sensitive hydrogels 8257
 Thermodynamics 5669
 Thermogelation 2451
 Thermogravimetric analysis 8465
 Thermogravimetry 4635
 Thermoplastic 3425
 Thermoplastic composites 6145
 Thermoplastic elastomers 2499
 Thermoplastic hydrogel 5185
 Thermoplastic olefins 1597
 Thermoplastic polyimide 7263
 Thermoplastic starch 4157, 8083
 Thermoporometry 6171
 Thermosensitive polymers 8247, 9139
 Thermosensitive response 7691
 Thermoset coatings 81, 2017
 Thermosets 5109, 7925, 8221, 8231
 Thermosetting polymer blend 1711
 Thermosetting polymers 4849
 Thermostable polymers 49
 Thermostimulated depolarization current 2899, 8393
 Thermothickening 545
 Thermotropic 4709
 Thermotropic copolymers 2419, 7471
 Thermotropic liquid crystalline polymer 4737
 Thermotropic polyester 4501, 8355
 Thickening growth 8849
 Thickening process 8791
 Thickness variations 6295
 Thin film 867, 5661

- Thin polymer films 6679
 Thinning effect 3289
 Thiol 1385
 Thioxanthone derivatives 9103
 Third-order susceptibility 3507
 Thomas–Windle model 7159
 Threadline tension 8139
 Time resolved light scattering 649
 Time-of-flight secondary ion mass spectrometry 1685
 Time–temperature transformation diagram 5949
 Titanium catalyst 7899
 Titanium Ziegler–Natta type catalyst 3937
 Titration 1989
 Toluene diisocyanate 6773
 Toughened epoxies 269
 Toughening 195, 4451, 7559
 Toughness 3479, 4803, 6067
 TPU 5247
 Tracer diffusion 4751
 Transalcoholysis 2499
 Transamidation 4651
 Transformation 7605
 Transient Electric Birefringence (TEB) 559
 Transitions 5137
 Transmission electron microscopy 9089
 Transmission electron microscopy and electron diffraction 6679
 Transmission spectrum 2059
 Transport properties 2515
 Tri-block copolymer 7321
 Triallyl isocyanurate 3883
 Triazine 6949
 Triblock copolymers 2499, 2577, 9089, 9311
 Tribromostyrene copolymers 5393
 Tributyltin polymeric carboxylates 3913
 Triethyl phosphate 7017
 Triethylamine 3311, 6797
 Trifluorovinyl ether groups 6213
 Triglycidyloxy phenyl silane 6113
 Trimethylene carbonate 7311
 Turbidity 9227
 Twin epoxy monomers 7617
- Two-stage sorption 8641
 Tyrosinase 2157
- Ultra high molecular weight polyethylene 795, 8615
 Ultra-high molar mass polyethylene 6237
 Ultra-high molecular weight polyethylene synthesis 1355
 Uncertainty 5531
 Underfilling 7941
 Unfilled and glass-filled poly(butylene terephthalate) 4317
 Uniaxial orientation 2241
 UNIFAC-FV 8441
 Unsaturated polyester 461, 765, 2667, 8557
 Unsaturated polyester resin 685, 697, 711, 3861
 Upper critical solution temperatures 5993
 UV-curing 409, 3905
 UV polymerization 5661
- Vanadium catalyst 7899
 Vapor–liquid equilibrium 1109
 Vapour–liquid-equilibrium data 219
 Vectra B 6311
 Vibration welding 4317
 Vinyl acetate 8633
 Vinyl alcohol–ethylene copolymers 6655
 Vinyl ester 7961
 Vinyl ester resin 4203
 Vinyl ether group 4013
 Vinyl polymer 7547
 Vinyl pyrrolidone 7303
 Vinylester resin 6843
 Vinylsilane 827
 Viscoelastic properties 5207
 Viscoelasticity 1857, 6403
 Viscometric degree of polymerisation 8513
 Viscometry 4607, 8009
 Viscose 2627
 Viscosity 725, 4743
 Viscosity ratio 3057, 8083
 Visible light photosensitizer 6205
 Volatile organic compounds 7123
- Volume 9191
 Volume phase transition 7589
 Vulcanization process 3405
 Vulcanization 3167
- Water 1037, 1063, 3737, 5903
 Water absorption 5777, 6787
 Water damage 3945
 Water migration 6171
 Water structure 8339
 Water trees 8151
 Water uptake 4643
 Water vapor 2667
 Water-soluble polyelectrolytes 5505
 Water-soluble self-acid-doped conducting polymer 813
 Weld line 3057
 Wheat straw 2647
 Wide-angle X-ray scattering 3011, 5423
 Windowing polarization 8393
 Work of fracture 6833
 Worm-like polymers 4607
 Worm-like touched-bead chain model 2865
- X-ray 7523
 X-ray diffraction 1355, 3083, 4179, 6913, 7785
 X-ray photoelectron spectroscopy 211
 X-ray reflectivity 8167
 X-ray scattering 2577, 4957
 XPS 409, 5839
- Yield 1475, 1959, 5229
 Yield stress 5431, 6619
- Ziegler–Natta and metallocene catalysts 7067
 Ziegler–Natta catalyst 4523
 Zinc salt of carboxylated nitrile rubber 787
 Zinc salt of poly(ethylene-co-acrylic acid) 787
 Zwitterion 6123
 Zwitterionic polymer 141