

Author Index Volume 101-111

Author Index Vols. 1-100 see Vol. 100

Amédouri, B. and Boutevin, B.: Synthesis and Properties of Fluorinated Telechelic Monodispersed Compounds. Vol. 102, pp. 133-170.

Amselem, S. see Domb, A. J.: Vol. 107, pp. 93-142.

Arshady, R.: Polymer Synthesis via Activated Esters: A New Dimension of Creativity in Macromolecular Chemistry. Vol.111, pp. 1-42.

Baltá-Calleja, F. J., González Arche, A., Ezquerro, T. A., Santa Cruz, C., Batallón, F., Frick, B. and López Cabarcos, E.: Structure and Properties of Ferroelectric Copolymers of Poly(vinylidene) Fluoride. Vol. 108, pp. 1-48.

Barshtein, G. R. and Sabsai, O. Y.: Compositions with Mineralorganic Fillers. Vol. 101, pp.1-28.

Batallón, F. see Baltá-Calleja, F. J.: Vol. 108, pp. 1-48.

Boutevin, B. and Robin, J. J.: Synthesis and Properties of Fluorinated Diols. Vol. 102, pp.105-132.

Boutevin, B. see Amédouri, B.: Vol. 102, pp. 133-170.

Burban, J. H. see Cussler, E.L.: Vol. 110, pp. 67-80.

Chow, T. S.: Glassy State Relaxation and Deformation in Polymers. Vol. 103, pp. 149-190.

Cussler, E. L., Wang, K. L. and Burban, J. H.: Hydrogels as Separation Agents. Vol. 110, pp. 67-80.

Doelker, E.: Cellulose Derivatives. Vol. 107, pp. 199-266.

Domb, A. J., Amselem, S., Shah, J. and Maniar, M.: Polyanhydrides: Synthesis and Characterization. Vol.107, pp. 93-142.

Dubrovskii, S. A. see Kazanskii, K. S.: Vol. 104, pp. 97-134.

Ezquerro, T. A. see Baltá-Calleja, F. J.: Vol. 108, pp. 1-48.

Frick, B. see Baltá-Calleja, F. J.: Vol. 108, pp. 1-48.

Fridman, M. L.: see Terent'eva, J. P.: Vol. 101, pp. 29-64.

Geckeler, K. E. see Rivas, B.: Vol. 102, pp. 171-188.

Gehrke, S. H.: Synthesis, Equilibrium Swelling, Kinetics Permeability and Applications of Environmentally Responsive Gels. Vol. 110, pp. 81-144.

González Arche, A. see Baltá-Calleja, F. J.: Vol. 108, pp. 1-48.

Grosberg, A. and Nechaev, S.: Polymer Topology. Vol. 106, pp. 1-30.

Grubbs, R., Risse, W. and Novac, B.: The Development of Well-defined Catalysts for Ring-Opening Olefin Metathesis. Vol. 102, pp. 47-72.

- Guyot, A. and Tauer, K.*: Reactive Surfactants in Emulsion Polymerization. Vol. 111, pp. 43-66.
- Hall, H. K.* see Penelle, J.: Vol. 102, pp. 73-104.
- Hammouda, B.*: SANS from Homogeneous Polymer Mixtures: A Unified Overview. Vol. 106, pp. 87-134.
- Heller, J.*: Poly (Ortho Esters). Vol. 107, pp. 41-92.
- Hirasa, O.* see Suzuki, M.: Vol. 110, pp. 241-262.
- Hirotsu, S.*: Coexistence of Phases and the Nature of First-Order Transition in Poly-N-isopropylacrylamide Gels. Vol. 110, pp. 1-26.
- Ichikawa, T.* see Yoshida, H.: Vol. 105, pp. 3-36.
- Ilavsky, M.*: Effect on Phase Transition on Swelling and Mechanical Behavior of Synthetic Hydrogels. Vol. 109, pp. 173-206.
- Inomata, H.* see Saito, S.: Vol. 106, pp. 207-232.
- Irie, M.*: Stimuli-Responsive Poly(N-isopropylacrylamide), Photo- and Chemical-Induced Phase Transitions. Vol. 110, pp. 49-66.
- Ivanov, A. E.* see Zubov, V. P.: Vol. 104, pp. 135-176.
- Kaetsu, I.*: Radiation Synthesis of Polymeric Materials for Biomedical and Biochemical Applications. Vol. 105, pp. 81-98.
- Kammer, H. W., Kressler, H. and Kummerloewe, C.*: Phase Behavior of Polymer Blends - Effects of Thermodynamics and Rheology. Vol. 106, pp. 31-86.
- Kandyrin, L. B. and Kuleznev, V. N.*: The Dependence of Viscosity on the Composition of Concentrated Dispersions and the Free Volume Concept of Disperse Systems. Vol. 103, pp. 103-148.
- Kang, E. T., Neoh, K. G. and Tan, K. L.*: X-Ray Photoelectron Spectroscopic Studies of Electroactive Polymers. Vol. 106, pp. 135-190.
- Kazanskii, K. S. and Dubrovskii, S. A.*: Chemistry and Physics of „Agricultural“ Hydrogels. Vol. 104, pp. 97-134.
- Khokhlov, A., Starodubtzev, S. and Vasilevskaya, V.*: Conformational Transitions of Polymer Gels: Theory and Experiment. Vol. 109, pp. 121-172.
- Kilian, H. G. and Pieper, T.*: Packing of Chain Segments. A Method for Describing X-Ray Patterns of Crystalline, Liquid Crystalline and non-Crystalline Polymers. Vol. 108, pp. 49-90.
- Kokufuta, E.*: Novel Applications for Stimulus-Sensitive Polymer Gels in the Preparation of Functional Immobilized Biocatalysts. Vol. 110, pp. 157-178.
- Konno, M.* see Saito, S.: Vol. 109, pp. 207-232.
- Kressler, J.* see Kammer, H. W.: Vol. 106, pp. 31-86.
- Kuleznev, V. N.* see Kandyrin, L. B.: Vol. 103, pp. 103-148.
- Kulichkhin, S. G.* see Malkin, A. Y.: Vol. 101, pp. 217-258.
- Kuchanov, S. I.*: Modern Aspects of Quantitative Theory of Free-Radical Copolymerization. Vol. 103, pp. 1-102.
- Kummerloewe, C.* see Kammer, H. W.: Vol. 106, pp. 31-86.
- Kuznetsova, N. P.* see Samsonov, G. V.: Vol. 104, pp. 1-50.
- Lazár, M. and Rychlý, R.*: Oxidation of Hydrocarbon Polymers. Vol. 102, pp. 189-222.
- Lenz, R. W.*: Biodegradable Polymers. Vol. 107, pp. 1-40.
- Lin, J. and Sherrington, D. C.*: Recent Developments in the Synthesis, Thermostability and Liquid Crystal Properties of Aromatic Polyamides. Vol. 111, pp. 177-220.

López Cabarcos, E. see Baltá-Calleja, F. J.: Vol. 108, pp. 1-48.

Malkin, A. Y. and Kulichkhin, S. G.: Rheokinetics of Curing. Vol. 101, pp. 217-258.

Maniar, M. see Domb, A. J.: Vol. 107, pp. 93-142.

Miyasaka, K.: PVA-Iodine Complexes: Formation, Structure and Properties. Vol. 108, pp. 91-130.

Morishima, Y.: Photoinduced Electron Transfer in Amphiphilic Polyelectrolyte Systems. Vol. 104, pp. 51-96.

Nechaev, S. see Grosberg, A.: Vol. 106, pp. 1-30.

Neoh, K. G. see Kang, E. T.: Vol. 106, pp. 135-190.

Novac, B. see Grubbs, R.: Vol. 102, pp. 47-72.

Ogasawara, M.: Application of Pulse Radiolysis to the Study of Polymers and Polymerizations. Vol. 105, pp. 37-80.

Okada, M.: Ring-Opening Polymerization of Bicyclic and Spiro Compounds. Reactivities and Polymerization Mechanisms. Vol. 102, pp. 1-46.

Okano, T.: Molecular Design of Temperature-Responsive Polymers as Intelligent Materials. Vol. 110, pp. 179-198.

Onuki, A.: Theory of Phase Transition in Polymer Gels. Vol. 109, pp. 63-120.

Padias, A. B. see Penelle, J.: Vol. 102, pp. 73-104.

Penelle, J., Hall, H. K., Padias, A. B. and Tanaka, H.: Captodative Olefins in Polymer Chemistry. Vol. 102, pp. 73-104.

Pieper, T. see Kilian, H. G.: Vol. 108, pp. 49-90.

Priddy, D. B.: Recent Advances in Styrene Polymerization. Vol. 111, pp. 67-114.

Pospisil, J.: Functionalized Oligomers and Polymers as Stabilizers for Conventional Polymers. Vol. 101, pp. 65-168.

Risse, W. see Grubbs, R.: Vol. 102, pp. 47-72.

Rivas, B. L. and Geckeler, K. E.: Synthesis and Metal Complexation of Poly(ethyleneimine) and Derivatives. Vol. 102, pp. 171-188.

Robin, J. J. see Boutevin, B.: Vol. 102, pp. 105-132.

Rusanov, A. L.: Novel Bis (Naphtalic Anhydrides) and Their Polyheteroarylenes with Improved Processability. Vol. 111, pp. 115-176.

Rychlý, J. see Lázár, M.: Vol. 102, pp. 189-222.

Sabsai, O. Y. see Barshtein, G. R.: Vol. 101, pp. 1-28.

Saburov, V. V. see Zubov, V. P.: Vol. 104, pp. 135-176.

Saito, S., Konno, M. and Inomata, H.: Volume Phase Transition of N-Alkylacrylamide Gels. Vol. 109, pp. 207-232.

Samsonov, G. V. and Kuznetsova, N. P.: Crosslinked Polyelectrolytes in Biology. Vol. 104, pp. 1-50.

Santa Cruz, C. see Baltá-Calleja, F. J.: Vol. 108, pp. 1-48.

Sefton, M. V. and Stevenson, W. T. K.: Microencapsulation of Live Animal Cells Using Polycrylates. Vol. 107, pp. 143-198.

Sherrington, D. C. see Lin, J.: Vol. 111, pp. 177-220.

- Shibayama, M.* see Tanaka, T.: Vol. 109, pp. 1-62.
- Siegel, R. A.*: Hydrophobic Weak Polyelectrolyte Gels: Studies of Swelling Equilibria and Kinetics. Vol. 109, pp. 233-268.
- Singh, R. P.* see Sivaram, S.: Vol. 101, pp. 169-216.
- Sivaram, S.* and *Singh, R. P.*: Degradation and Stabilization of Ethylene-Propylene Copolymers and Their Blends: A Critical Review. Vol. 101, pp. 169-216.
- Stevenson, W. T. K.* see Sefton, M. V.: Vol. 107, pp. 143-198.
- Starodybtzev, S.* see Khokhlov, A.: Vol. 109, pp. 121-172.
- Suzuki, A.*: Phase Transition in Gels of Sub-Millimeter Size Induced by Interaction with Stimuli. Vol. 110, pp. 199-240.
- Suzuki, A.* and *Hirasa, O.*: An Approach to Artificial Muscle by Polymer Gels due to Micro-Phase Separation. Vol. 110, pp. 241-262.
- Tagawa, S.*: Radiation Effects on Ion Beams on Polymers. Vol. 105, pp. 99-116.
- Tan, K. L.* see Kang, E. T.: Vol. 106, pp. 135-190.
- Tanaka, T.* see Penelle, J.: Vol. 102, pp. 73-104.
- Tanaka, H.* and *Shibayama, M.*: Phase Transition and Related Phenomena of Polymer Gels. Vol. 109, pp. 1-62.
- Tauer, K.* see Guyot, A.: Vol. 111, pp. 43-66.
- Terent'eva, J. P.* and *Fridman, M. L.*: Compositions Based on Aminoresins. Vol. 101, pp. 29-64.
- Tokita, M.*: Friction Between Polymer Networks of Gels and Solvent. Vol. 110, pp. 27-48.
- Vasilevskaya, V.* see Khokhlov, A.: Vol. 109, pp. 121-172.
- Verdugo, P.*: Polymer Gel Phase Transition in Condensation-Decondensation of Secretory Products. Vol. 110, pp. 145-156.
- Wang, K. L.* see Cussler, E. L.: Vol. 110, pp. 67-80.
- Yamaoka, H.*: Polymer Materials for Fusion Reactors. Vol. 105, pp. 117-144.
- Yoshida, H.* and *Ichikawa, T.*: Electron Spin Studies of Free Radicals in Irradiated Polymers. Vol. 105, pp. 3-36.
- Zubov, V. P., Ivanov, A. E.* and *Saburov, V. V.*: Polymer-Coated Adsorbents for the Separation of Biopolymers and Particles. Vol. 104, pp. 135-176.

Subject Index

- Acenaphthalene 119-122, 128, 134
Acrylates, activated 1, 3
-, -, reactivity ratios 7
-, -, suspension copolymerization 13
Acrylic groups 49, 53
N-Acryloxy derivatives 37
Active ester method, graft copolymers 29
Alkyl esters, aminolysis 14
Aminolysis, alkyl esters 14
Amphigels, polymer-solvent compatibility 24
Amphiphilic gels 3, 19
Anionic surfactants 45
Azo compounds, polymeric 58, 59
- free radical initiator 94-96
Azobis cyanopentanoic acid 58
- diisobutyric acid amidine 57
Azodiester sulfate 60
- Benzoyloxy free mono-radicals** 88, 97-100
Bis-acenaphthyls 119, 128
Bis(ethernaphthalic anhydrides) 125, 126, 139, 145, 151
Bis(ketonaphthalic anhydrides) 128, 141, 145, 154, 156
Bis(naphthalic anhydrides) 115, 118-149
Bis(phenylbenzimidazole naphthalic anhydrides) 134
Bis(phenylquinoxaline naphthalic anhydrides) 134, 135
Bis(phthalic anhydrides) 115, 118, 127
Bis(sulfonenaphthalic anhydrides) 127, 149
Bis(thioether naphthalic anhydrides) 126, 139, 148
Block copolymers 53
Butadiene oxide/ethylene oxide 63
tert-Butoxy free mono-radical 88, 89, 97, 98
- Carbon-carbon, free radical initiators 91-94
Cardo amines 210
Cellulosic surfactants 53
4-Chloroformyl(naphthalic anhydrides) 129-132
Cloud point 52, 53
Coagulum 47, 53
Coating, graft copolymers 32
Competitive growth experiment 49
Copoly(styrene-dimethylacrylamide) 19
Cumyloxy free radicals 71
Cyanoisopropyl free mono-radicals 88, 94-96
- Decylaceto 2-methyl 5-vinylpyridinium bromide** 50
Decyl phenyl sodium sulfonate acrylate 50
-, sodium ethyl sulfonate methacrylamide 50
Dibenzofulvene 26
Disc-like mesogens 216
Dispersion polymerization 53, 63
Dodecylester of sodium sulfosuccinate acid 50
Dodecylmercaptan 56
- Electroactive polymers** 33
Electrolyte stability 45, 52
Electrophoretic mobility 54
Emulsion mobility 54
- polymerization 50, 53, 62
Environmental problems 45
Esters, activated 1
- Feed step process 50
Flocculation 45, 52
Fluorenylmethoxycarbonyl protection 26

- Free radicals 70, 71, 73-78, 86-110
 - - initiators 86-110
 - - -, functionalized 109, 110
 Freeze thaw stability 50
 Functionalization 5
- Gels, amphiphilic** 3, 19
 -, -, polymer-solvent compatibility 24
 General purpose polymers 4
 Glass transition temperature 52
 Graft copolymers 3
 -, active ester method 29
 -, novel 29
 Grafting 54
- 1-Hydroxybenzotriazol 14
N-Hydroxysuccinimide 14
- Initiation reaction** 45
 Initiators, free radical 86-110
 Ionic strength 53
- Kevlar** 178
- Latex, aggregation** 52
 -, charged 51
 -, monodisperse 47
 -, ordered packing 53
 -, seed 49
 -, surface coverage 47
 Liquid crystalline polymers 3
- Macromonomeres, styrenic, of polyoxy-**
 ethylene 52
 Maleic derivatives 49
 Mechanical stability 47
 Mesogens, disc-like 216
 Methacrylates, activated 3
 -, -, reactivity ratios 7
 Methacrylic polymerizable end groups 52
 Methyl free radicals 88
 Micelle concentration, critical 47, 48, 55
 Mono-radicals 91-103
- Naphthalene-1,4,5,8-tetracarboxylic acid di-**
 anhydride 118, 137, 138, 140, 146, 147
 2,6-Naphthalenedicarboxylic acid 196
 Nonlinear optical polymers 36
- Nucleation, homogeneous 47
 Nucleophilic comonomers 119
- Optics, nonlinear** 60
- Particle number** 49
 Peptide synthesis, condensing agents 5, 6
 - -, deprotecting reagents 20, 21
 - -, polymeric reagents 22
 - -, solid phase 19
 - -, - -, structure-performance relationship
 26
 Peroxide-containing monomer 57
 Peroxides, free radical initiators 97-103,
 105-110
 Peroxy initiator 54
 Phenyl acrylates 37
 - free radicals 98
 Phospholipidic compounds 51
 Photocurable oligomers 37
 Polyacrylamide dispersions 59
 Polyamides, alkyl substituted 192
 -, cardo amines 206
 -, fluorine-containing 185
 -, halogen-substituted 188
 -, lyotropic 209
 -, phenoxathin groups 202
 -, phenylene monomers 188
 -, polar groups 195
 -, pyridine groups 208
 -, pyrrole groups 204
 -, silylated diamines 184
 -, solubility 187
 -, sulfone-linked 197, 200, 206
 -, thermostability 187
 -, thermotropism 214
 -, thianthrene-containing 202
 -, thiophene-containing 204
 -, triazole-containing 201, 208
 Polycondensation, chemoselective 184
 -, interfacial 186
 -, melt 179
 Polycyclocondensation, high-temperature
 catalytic 142, 146, 148-162
 Polydimethylacrylamide 19
 Polyelectrolytes, water-soluble 49
 Polyethylene glycol nonyl phenol 58
 Polyheteroarylenes 158, 162, 167
 Polynaphthoethylenebenzimidazoles 118, 146-
 165
 Polynaphthylimides 118, 138, 141-146
 Polyoxazoline styrenic macromonomer 63
 Polyoxyethylene, alkylated 56

- Poly(*p*-phenyleneterephthalamide) 178
Polystyrene 19
- nanospheres, surface coating 33
-, telechelic 108, 109
- Radical efficiency 54
- mechanism 45
Radicals, free 70, 71, 73-78, 86-110
Reactivity ratios 50
- -, activated acrylates/methacrylates 7
Retardation 50
- Shear stress 45
Side chain liquid crystalline polymers 36
- - reactive polymers 3, 33
Silylated diamines 187
Spacer arms, active ester method 23
- -, functional groups 23
Styrene/butadiene copolymers 47
- / butylacrylate copolymers 48
- / sodium dodecylsulfonate ester 48
Styrene polymerization, anionic 69-90
- -, free radical 69-78, 86-110
- Sulfide-bis(naphthalic anhydride) 123
Sulfone-bis(naphthalic anhydride) 123, 150
Sulfopropyl methacrylate 47
Surface activity 55
- tension 49
Surface-bound reactive polymers 33
Surfactants, conventional 51
Suspension copolymerization 13
Swelling behavior 26
- Thermotropic polyamides 214
Transfer reaction 45
Turbidity 53
- Vinylacetate polymerization 49, 59
Vinyl groups 49
N-Vinylpyrrolidone copolymers 8
- Water adsorption 60
- rebound 45
Weak links 89, 90, 99, 100