

Karel Dusek

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ext. citations

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#	Paper	IF	Citations
177	Network structure formation during crosslinking of organic coating systems. <i>Progress in Polymer Science</i> , 2000 , 25, 1215-1260	29.6	176
176	Zero and Off-Zero Critical Concentrations in Systems Containing Polydisperse Polymers with Very High Molar Masses. 2. The System Water-Poly(vinyl methyl ether). <i>Macromolecules</i> , 1997 , 30, 410-416	5.5	146
175	Network formation in curing of epoxy resins 1986 , 1-59		138
174	Structure and properties of triolein-based polyurethane networks. <i>Biomacromolecules</i> , 2002 , 3, 1048-56	6.9	131
173	Formation and structure of the epoxy-silica hybrids. <i>Polymer</i> , 1999 , 40, 171-181	3.9	128
172	Phase Transitions in Swollen Networks. <i>Macromolecules</i> , 1995 , 28, 1103-1107	5.5	114
171	Deformational, swelling, and potentiometric behavior of ionized poly(methacrylic acid) gels. I. Theory. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1975 , 13, 253-262		104
170	Role of cyclization in the degree-of-polymerization distribution of hyperbranched polymers Modelling and experiments. <i>Polymer Bulletin</i> , 1999 , 42, 489-496	2.4	100
169	Phase Transitions in Swollen Networks. 3. Swelling Behavior of Radiation Cross-Linked Poly(vinyl methyl ether) in Water \square <i>Macromolecules</i> , 1998 , 31, 2223-2229	5.5	99
168	Features of network formation in the chain crosslinking (co)polymerization. <i>Polymer Bulletin</i> , 1980 , 3-3, 19-25	2.4	99
167	Simulation of polymer network formation by the Monte Carlo method. <i>Macromolecules</i> , 1982 , 15, 93-99	5.5	97
166	Are cured epoxy resins inhomogeneous?. <i>Polymer</i> , 1978 , 19, 393-397	3.9	96
165	Curing epoxy resins with anhydrides. Model reactions and reaction mechanism. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1983 , 21, 2873-2885		92
164	Cyclization in vinyl-divinyl copolymerization. <i>Polymer</i> , 1980 , 21, 750-756	3.9	92
163	Graphlike State of Matter. 10. Cyclization and Concentration of Elastically Active Network Chains in Polymer Networks. <i>Macromolecules</i> , 1978 , 11, 236-245	5.5	87
162	Structure evolution in epoxy-silica hybrids: sol-gel process. <i>Journal of Non-Crystalline Solids</i> , 1998 , 226, 114-121	3.9	79
161	Curing of epoxide resins: Model reactions of curing with amines. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1977 , 15, 2393-2400		72

160	Rheological and thermal properties of agarose aqueous solutions and hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 322-328	2.6	70
159	Effect of diffusion control in the glass transition region on critical conversion at the gel point during curing of epoxy resins. <i>Polymer</i> , 1978 , 19, 931-933	3.9	68
158	Network formation of polyurethanes due to side reactions. <i>Macromolecules</i> , 1990 , 23, 1774-1781	5.5	66
157	Are cured thermoset resins inhomogeneous?. <i>Angewandte Makromolekulare Chemie</i> , 1996 , 240, 1-15		61
156	Concentration of elastically active network chains and cyclisation in networks obtained by alternating stepwise polyaddition. <i>British Polymer Journal</i> , 1977 , 9, 164-171		60
155	Structure and elasticity of polyurethane networks. 5. Effect of diluent in the formation of model networks of poly(oxypropylene)triol and 4,4-methylenebis(phenyl isocyanate). <i>Macromolecules</i> , 1986 , 19, 2139-2146	5.5	59
154	The structure and elasticity of polyurethane networks: 1. Model networks of poly(oxypropylene) triols and diisocyanate. <i>Polymer</i> , 1983 , 24, 981-990	3.9	58
153	Photomechanical effects in crosslinked photochromic polymers. <i>Polymer</i> , 1981 , 22, 1511-1515	3.9	58
152	Crosslinking and networks. <i>Die Makromolekulare Chemie</i> , 1979 , 2, 35-49		55
151	Formation-structure relationships in polymer networks. <i>British Polymer Journal</i> , 1985 , 17, 185-189		52
150	"Zero" and "Off-Zero" Critical Concentrations in Solutions of Polydisperse Polymers with Very High Molar Masses. <i>Collection of Czechoslovak Chemical Communications</i> , 1995 , 60, 1661-1688		50
149	Synthesis and characterization of novel aromatic azo bond-containing pH-sensitive and hydrolytically cleavable IPN hydrogels. <i>Biomaterials</i> , 2006 , 27, 1140-51	15.6	49
148	The structure of low conversion polymers of ethylene dimethacrylate. <i>European Polymer Journal</i> , 1980 , 16, 1043-1046	5.2	47
147	Phase separation during the formation of three-dimensional polymers. <i>Journal of Polymer Science Part B: Polymer Letters</i> , 1965 , 3, 209-212		46
146	Swelling of model networks. <i>Macromolecules</i> , 1987 , 20, 1088-1096	5.5	45
145	Correspondence between the theory of branching processes and the kinetic theory for random crosslinking in the post-gel stage. <i>Polymer Bulletin</i> , 1979 , 1, 523-528	2.4	44
144	Kinetic Monte-Carlo simulation of network formation. <i>Polymer Bulletin</i> , 1994 , 33, 369-376	2.4	41
143	The growth of PbHPO ₄ and Pb ₄ (NO ₃) ₂ (PO ₄) ₂ · 2H ₂ O in gels. <i>Journal of Crystal Growth</i> , 1976 , 34, 248-252		41

142	Diffusion control in the kinetics of cross-linking. <i>Polymer Gels and Networks</i> , 1996 , 4, 383-404		38
141	Processes and states during polymer film formation by simultaneous crosslinking and solvent evaporation. <i>Journal of Materials Science</i> , 2002 , 37, 4733-4741	4.3	37
140	The effect of crosslinking on properties of polyurethane elastomers. <i>Journal of Applied Polymer Science</i> , 1991 , 42, 391-398	2.9	36
139	Novel Aromatic Azo-Containing pH-Sensitive Hydrogels: Synthesis and Characterization. <i>Macromolecules</i> , 2002 , 35, 7791-7803	5.5	35
138	The thermal effect in the photomechanical conversion of a photochromic polymer. <i>Polymer Bulletin</i> , 1979 , 1, 659-664	2.4	35
137	Manifestation of microgel-like particles of styrene-ethylene dimethacrylate copolymers in solution in ¹ H and ¹³ C NMR spectra. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1980 , 18, 2027-2035		35
136	Size of network chains. <i>Macromolecules</i> , 1984 , 17, 716-722	5.5	34
135	Hydrophilic gels based on copolymers of 2-hydroxyethyl methacrylate with methacrylamide and acrylamide. <i>Journal of Applied Polymer Science</i> , 1975 , 19, 3061-3075	2.9	34
134	Deformational, swelling, and potentiometric behavior of ionized gels of 2-hydroxyethyl methacrylate-methacrylic acid copolymers. <i>Journal of Applied Polymer Science</i> , 1979 , 23, 2073-2082	2.9	34
133	Network formation in the free-radical copolymerization of a bismaleimide and styrene. <i>Polymer</i> , 1996 , 37, 2233-2242	3.9	33
132	Diffusion controlled kinetics of crosslinking. <i>Progress in Organic Coatings</i> , 1993 , 22, 145-159	4.8	33
131	Kinetic Monte-Carlo simulation of network formation. <i>Polymer Bulletin</i> , 1994 , 33, 377-384	2.4	33
130	Formation, structure, and elasticity of loosely crosslinked epoxy-amine networks. I. Statistics of formation. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1983 , 21, 1323-1339		32
129	Formation, structure, and elasticity of loosely crosslinked epoxy-amine networks. II. Mechanical and optical properties. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1984 , 22, 265-278		32
128	Build-up of polymer networks by initiated polyreactions. <i>Polymer Bulletin</i> , 1985 , 13, 313-319	2.4	31
127	Preparation and properties of poly-(N-butylmethacrylamide) networks. <i>European Polymer Journal</i> , 1978 , 14, 45-49	5.2	31
126	Polyurethane networks with controlled architecture of dangling chains. <i>Macromolecular Chemistry and Physics</i> , 2002 , 203, 1936-1948	2.6	30
125	Polymer Networks from Precursors of Defined Architecture. Activation of Preexisting Branch Points. <i>Macromolecules</i> , 2003 , 36, 2915-2925	5.5	30

124	Highly-branched off-stoichiometric functional polymers as polymer networks precursors. <i>Polymer</i> , 2005 , 46, 4265-4282	3.9	30
123	Theories for network formation in multistage processes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991 , 29, 463-482	2.6	30
122	Acid curing of epoxy resins. A comparison between the polymerization of diepoxide-diacid and monoepoxide-cyclic anhydride systems. <i>Die Makromolekulare Chemie</i> , 1985 , 186, 2025-2036		30
121	Special Features of Network Formation by Chain Crosslinking Copolymerization. <i>Collection of Czechoslovak Chemical Communications</i> , 1993 , 58, 2245-2265		30
120	Rheological properties of homogeneous and heterogeneous poly(2-hydroxyethyl methacrylate) hydrogels. <i>Polymer International</i> , 2012 , 61, 328-336	3.3	28
119	Mechanism and kinetics of curing of epoxides based on diglycidylamine with aromatic amines. 1. The reaction of diglycidylaniline with secondary amines. <i>Macromolecules</i> , 1989 , 22, 2902-2910	5.5	28
118	Formation of polyurethane networks studied by the gel point method. <i>Polymer Bulletin</i> , 1980 , 3-3, 489-495		26
117	Mechanism and kinetics of curing of epoxides based on diglycidylamine with aromatic amines. 2. The reaction between diglycidylaniline and aniline. <i>Macromolecules</i> , 1989 , 22, 2911-2917	5.5	25
116	Build-up of polymer networks by initiated polyreactions. <i>Polymer Bulletin</i> , 1985 , 13, 321-328	2.4	25
115	Development and Evaluation of a Monte Carlo Technique for the Simulation of Multifunctional Polymerizations. <i>Macromolecules</i> , 1995 , 28, 5910-5920	5.5	24
114	Rheology and porosity control of poly(2-hydroxyethyl methacrylate) hydrogels. <i>Polymer</i> , 2013 , 54, 661-670	3.2	23
113	Effect of Dilution on Structure and Properties of Polyurethane Networks. Pregel and Postgel Cyclization and Phase Separation. <i>Macromolecules</i> , 2010 , 43, 6450-6462	5.5	23
112	Modelling of ring-free crosslinking chain (co)polymerization. <i>Polymer International</i> , 1997 , 44, 225-236	3.3	23
111	Mechanical behavior and structure of single beads of homogeneous and macroporous styrene-divinylbenzene copolymers. <i>Journal of Applied Polymer Science</i> , 1982 , 27, 277-288	2.9	23
110	Macroporous 2-hydroxyethyl methacrylate hydrogels of dual porosity for cell cultivation: morphology, swelling, permeability, and mechanical behavior. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	22
109	Cyclization in the reaction between diglycidylaniline and amine. <i>Polymer Bulletin</i> , 1986 , 15, 389-396	2.4	22
108	Side Reactions in the Formation of Polyurethanes: Model Reactions Between Phenylisocyanate and 1-Butanol. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1987 , 24, 1151-1166		22
107	Curing of epoxy resins with amines. <i>Polymer Bulletin</i> , 1985 , 14, 309-315	2.4	22

106	Comparison of the penetration, tensile and compression moduli of elasticity of poly(n-alkyl acrylate) networks in the rubberlike state. <i>Collection of Czechoslovak Chemical Communications</i> , 1978 , 43, 1999-2007		22
105	Statistics of Degradation and Cross-Linking of Polymer Chains with the Use of the Theory of Branching Processes. <i>Macromolecules</i> , 1980 , 13, 571-579	5.5	21
104	Constrained Swelling of Polymer Networks: Characterization of Vapor-Deposited Cross-Linked Polymer Thin Films. <i>Macromolecules</i> , 2014 , 47, 4417-4427	5.5	20
103	Specific features of the kinetics of addition esterification of epoxide with the carboxyl group. <i>Polymer Bulletin</i> , 1986 , 15, 215-221	2.4	20
102	Modeling of Polymer Network Formation from Preformed Precursors. <i>Macromolecular Reaction Engineering</i> , 2012 , 6, 426-445	1.5	19
101	Cationic polymerization of diglycidyl ether of Bisphenol A. III. Comparison of the theory with experiment. <i>Journal of Polymer Science Part A</i> , 1997 , 35, 665-672	2.5	19
100	Theoretical treatment of network formation by a multistage process. <i>Polymer Bulletin</i> , 1987 , 17, 239-245	2.4	19
99	Preparation and properties of poly(N-ethylmethacrylamide) networks. <i>European Polymer Journal</i> , 1977 , 13, 579-585	5.2	19
98	Hydroxyl-terminated oligomers crosslinked by alkoxysilane sol-gel or polyurethane chemistries: A comparison. <i>Journal of Applied Polymer Science</i> , 1997 , 65, 2373-2386	2.9	18
97	Phase transition in swollen gels 31. Swelling and mechanical behaviour of interpenetrating networks composed of poly(1-vinyl-2-pyrrolidone) and polyacrylamide in water/acetone mixtures. <i>European Polymer Journal</i> , 2002 , 38, 875-883	5.2	18
96	Blocked isocyanate. Reaction and thermal behaviour of the toluene 2,4-diisocyanate dimer. <i>Angewandte Makromolekulare Chemie</i> , 1996 , 242, 1-36		18
95	Effect of dilution during network formation on the sol fraction and elasticity of polyurethane networks. <i>Die Makromolekulare Chemie</i> , 1989 , 190, 883-891		18
94	Polymer Networks: A Challenge to Theorist and Technologist. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1991 , 28, 843-863		17
93	Effect of urea on the behaviour of poly(2-hydroxyethyl methacrylate)-water mixtures. <i>European Polymer Journal</i> , 1974 , 10, 239-247	5.2	17
92	Coiled-Coil Hydrogels. Effect of Grafted Copolymer Composition and Cyclization on Gelation. <i>Macromolecules</i> , 2009 , 42, 2265-2274	5.5	15
91	Build-up of polymer networks by initiated polyreactions. <i>Polymer Bulletin</i> , 1987 , 17, 515-521	2.4	15
90	Effect of diluent on the gel point and mechanical properties of polyurethane networks. <i>Polymer Bulletin</i> , 2007 , 58, 201-211	2.4	14
89	Solvent activity changes and phase separation during crosslinking of coating films. <i>Macromolecular Symposia</i> , 2003 , 198, 259-270	0.8	14

88	Swelling pressure induced phase-volume transition in hybrid biopolymer gels caused by unfolding of folded crosslinks: a model. <i>Biomacromolecules</i> , 2003 , 4, 1818-26	6.9	14
87	Curing of epoxides. Reaction of dicyanodiamide with phenylglycidyl ether. <i>Angewandte Makromolekulare Chemie</i> , 1989 , 172, 185-194		13
86	Polymerization of epoxides in the presence of tertiary amino alcohols. <i>Journal of Polymer Science Part A</i> , 1990 , 28, 2305-2319	2.5	13
85	Dynamic and static light scattering from critically branched polymer solutions. <i>Die Makromolekulare Chemie</i> , 1984 , 185, 2543-2552		13
84	Statistical treatment of allophanate crosslinking in the formation of polyurethane networks. <i>Polymer Bulletin</i> , 1984 , 12, 33-40	2.4	13
83	The Toughening of Epoxy Resins with Reactive Polybutadienes. <i>Advances in Chemistry Series</i> , 1984 , 27-35		13
82	My Fifty Years with Polymer Gels and Networks and Beyond. <i>Polymer Bulletin</i> , 2007 , 58, 321-338	2.4	12
81	Phase transition in swollen gels 29. Temperature dependences of swelling and mechanical behaviour of poly(N-vinylcaprolactam-co-1-vinyl-2-pyrrolidone) gels in water. <i>Polymer Bulletin</i> , 2001 , 46, 99-106	2.4	12
80	Influence of the reaction mechanism on network formation in amine-cured N,N-diglycidylamine epoxy resins. <i>Polymer</i> , 1991 , 32, 3195-3200	3.9	12
79	Cure monitoring of epoxy resins by fluorescence quenching. <i>Polymer Bulletin</i> , 1989 , 22, 585-592	2.4	12
78	Transesterification and Gelation of Polyhydroxy Esters Formed from Diepoxides and Dicarboxylic Acids. <i>Advances in Chemistry Series</i> , 1984 , 15-26		12
77	Volume Phase Transition in Gels: Its Discovery and Development. <i>Gels</i> , 2020 , 6,	4.2	12
76	Nonuniformities of Distributions of Molecular Weights of Grafted Polymers. <i>Macromolecules</i> , 2012 , 45, 3240-3246	5.5	11
75	Network structure dependence of volume and glass transition temperature. <i>Journal of Rheology</i> , 2000 , 44, 961-972	4.1	11
74	Cyclization in amine-cured N,N-diglycidylaniline epoxy resins. <i>Polymer</i> , 1991 , 32, 3190-3194	3.9	11
73	Effect of the ratio of reactive groups on gelation and cyclization during polyurethane network formation. <i>Polymer</i> , 1993 , 34, 5157-5162	3.9	11
72	Network build-up by initiated polyreaction. <i>Polymer Bulletin</i> , 1987 , 18, 209-215	2.4	11
71	Dependence of viscoelastic spectrum width on the structure of model imperfect networks prepared by endlinking. <i>Colloid and Polymer Science</i> , 1988 , 266, 324-332	2.4	11

70	Cross-linking of Epoxy Resins. <i>Advances in Chemistry Series</i> , 1984 , 3-14		11
69	The relaxation and equilibrium behaviour of model polyurethane networks. <i>Polymer Bulletin</i> , 1980 , 3-3, 497-503	2.4	11
68	Evidence of polyion hydration from X-ray and neutron small-angle scattering experiments. <i>Polymer Bulletin</i> , 1981 , 4, 225-231	2.4	11
67	Polymer Networks from Preformed Precursors Having Molecular Weight and Group Reactivity Distributions. Theory and Application. <i>Macromolecules</i> , 2013 , 46, 2767-2784	5.5	10
66	Chemical clusters in polymer networks. <i>Faraday Discussions</i> , 1995 , 101, 147-158	3.6	10
65	Build-up of polymer networks by initiated polyreactions. <i>Polymer Bulletin</i> , 1991 , 25, 231-237	2.4	10
64	Extent of side reactions and gelation of polyether polyurethanes. <i>Polymer Bulletin</i> , 1989 , 22, 191-198	2.4	10
63	Epoxide networks as model networks. <i>Colloid and Polymer Science</i> , 1980 , 258, 605-611	2.4	10
62	Viscoelastic behavior of interpenetrating networks of polyurethane and polyurethane acrylate. <i>Journal of Applied Polymer Science</i> , 1979 , 24, 1007-1015	2.9	10
61	Curing of epoxy resins: configurational structure and reactivity of stereoisomers in the model reaction of diglycidylaniline with N-methylaniline. <i>Polymer Bulletin</i> , 1985 , 14, 123-129	2.4	9
60	The photoelastic behaviour and small-angle x-ray scattering of ionized gels of copolymers of 2-hydroxyethyl methacrylate with methacrylic acid. <i>European Polymer Journal</i> , 1980 , 16, 901-907	5.2	9
59	Effect of composition on the mechanical properties of blends of the copolymer ABS with polyamides 6 and 12. <i>Journal of Applied Polymer Science</i> , 1980 , 25, 2493-2500	2.9	9
58	How to Force Polymer Gels to Show Volume Phase Transitions. <i>ACS Macro Letters</i> , 2019 , 8, 272-278	6.6	9
57	Microstructured poly(2-hydroxyethyl methacrylate)/poly(glycerol monomethacrylate) interpenetrating network hydrogels: UV-scattering induced accelerated formation and tensile behavior. <i>European Polymer Journal</i> , 2018 , 101, 304-313	5.2	8
56	The Manifold Varieties of Poly(2-Hydroxyethyl Methacrylate) Hydrogels IPNs. <i>Macromolecular Symposia</i> , 2017 , 372, 28-42	0.8	8
55	Curing of diglycidylamine-based epoxides with amines: Kinetic model and simulation of structure development. <i>Journal of Polymer Science Part A</i> , 1995 , 33, 461-472	2.5	8
54	Topological nanoinhomogeneities in polymer networks. <i>Macromolecular Symposia</i> , 1996 , 106, 119-136	0.8	8
53	Network formation in polyurethanes due to allophanate and biuret formation: Gel fraction and equilibrium modulus. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1991 , 45, 87-95		8

52	Structure and elasticity of polyurethane networks based on poly(butadiene) diol, 4,4?-diphenylmethane diisocyanate and poly(oxypropylene) triol. <i>Polymer</i> , 1993 , 34, 3437-3445	3.9	8
51	Formation of poly(urethane-isocyanurate) networks from poly(oxypropylene)diols and diisocyanate. <i>Polymer Bulletin</i> , 1993 , 31, 83-88	2.4	8
50	The photoelastic behaviour of swollen networks of polymethacrylic acid. <i>European Polymer Journal</i> , 1980 , 16, 191-199	5.2	8
49	Inhomogeneities and deviations from the Gaussian photoelastic behavior of networks. <i>Journal of Macromolecular Science - Physics</i> , 1981 , 19, 227-236	1.4	8
48	Correlations between the sol fraction and concentration of elastically active network chains. <i>British Polymer Journal</i> , 1977 , 9, 172-176		8
47	A model for swelling changes in a covalently crosslinked gel caused by unfolding of folded domains. <i>Polymer Bulletin</i> , 2001 , 47, 351-358	2.4	7
46	Networks based on aromatic glycidylamines: 1. Effect of curing conditions on the crosslinking of N,N-diglycidylaniline with 4,4?-diaminodiphenylmethane and of N,N,N',N'-tetraglycidyl-4,4?-diaminodiphenylmethane with 4,4?-diaminodiphenylmethane. <i>Colloid and Polymer Science</i> , 1991 , 269, 1013-1020	2.4	7
45	Dynamic - mechanical properties of poly(oxypropylene)di-amine-diepoxy and poly(oxypropylene)tri-amine-diepoxy networks and their relationship to the structure of elastically active network chains. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1989 , 30, 13-30		7
44	Network build-up and structure in curing of epoxy resins. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1987 , 7, 37-53		7
43	Theory of network formation by additional crosslinking of polyurethanes due to biuret and allophanate formation. <i>Polymer Bulletin</i> , 1987 , 17, 481-488	2.4	7
42	Cross-Linking and Structure of Polymer Networks. <i>ACS Symposium Series</i> , 1988 , 2-27	0.4	7
41	Solution properties of poly(methacrylamide). <i>European Polymer Journal</i> , 1978 , 14, 145-149	5.2	7
40	Quasichemical approach to crosslinked polymer solutions and the swelling equation for polycondensation networks. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1974 , 12, 1089-1107		7
39	Kinetics of the reactions of thiourea with formaldehyde. Reactions in alkaline media. <i>Journal of Polymer Science</i> , 1958 , 30, 431-458		7
38	Polymer Networks 2011 , 1687-1730		6
37	Structure development in polyurethane networks based on star-like precursors 2007 , 4, 311-315		6
36	Applicability of Statistical Theories of Network Formation. <i>Macromolecular Symposia</i> , 2007 , 256, 18-27	0.8	6
35	Scratch- and mar-resistant refinish two-pack clear coats II linear versus branched acrylics. <i>Surface Coatings International Part B: Coatings Transactions</i> , 2006 , 89, 275-283		6

34	Problems of structural characterization of polymer networks. <i>Polymer Engineering and Science</i> , 1979 , 19, 246-253	2.3	6
33	Formation of polyurethane networks based on poly(propylene glycol) and 4,4'-diphenylmethane diisocyanate. <i>Angewandte Makromolekulare Chemie</i> , 1976 , 52, 39-52		6
32	Relaxation behavior of polymethacrylamide and polyacrylamide and of their copolymers with 2-hydroxyethyl methacrylate. <i>Journal of Macromolecular Science - Physics</i> , 1974 , 10, 157-168	1.4	6
31	Effect of Constraints on Swelling of Polymer Networks. <i>Macromolecular Symposia</i> , 2015 , 358, 120-127	0.8	5
30	Small-angle scattering by polyelectrolyte solutions: Interpretation of molecular weight dependence of the scattering peak position. <i>Polymer</i> , 1986 , 27, 925-930	3.9	5
29	The photoelastic behaviour of the ionized poly(acrylic acid) network. <i>Polymer Bulletin</i> , 1980 , 3-3, 481-487	2.4	5
28	Calculation of the molecular weight distribution of crosslinked polymer chains using the theory of branching processes. <i>British Polymer Journal</i> , 1980 , 12, 1-4		5
27	The viscoelastic and equilibrium rheoptical behaviour of crosslinked ethylene-propylene copolymers. <i>Colloid and Polymer Science</i> , 1981 , 259, 1190-1197	2.4	5
26	A photosensitive polymer as recording material in holography. <i>Polymer Bulletin</i> , 1978 , 1, 167-170	2.4	5
25	Comparison of the viscoelastic penetration and tensile behaviour of poly(methyl acrylate) and poly(ethyl acrylate). <i>Collection of Czechoslovak Chemical Communications</i> , 1979 , 44, 1942-1948		5
24	Diluent Induced Cyclization and Phase Separation in Polymer Networks. <i>Macromolecular Symposia</i> , 2011 , 306-307, 67-76	0.8	4
23	Branching theories and thermodynamics used to help designing precursor architectures and binder systems. <i>Surface Coatings International Part B: Coatings Transactions</i> , 2006 , 89, 123-131		4
22	Light scattering from dilute solutions of critically branched epoxy resins. <i>Polymer Bulletin</i> , 1987 , 18, 329-336	2.4	4
21	Spectroscopic characterization of 1,5-diphenyl-3,7-dihydroxy-1,5-diazacyclooctane (8C ring compound) formed in N,N-diglycidylaniline/aniline curing systems. <i>Polymer Bulletin</i> , 1988 , 19, 269-274	2.4	4
20	Network Formation Theories and Their Application to Systems of Industrial Importance 1992 , 283-301		4
19	Size and mass of branched epoxy resins. <i>Polymer</i> , 1993 , 34, 2816-2820	3.9	3
18	Vapor pressure over stressed coating films. <i>Polymer Bulletin</i> , 2000 , 45, 83-88	2.4	2
17	Polymer Networks: Structure, Formation and Properties. <i>Journal of Bioactive and Compatible Polymers</i> , 1991 , 6, 247-255	2	2

16	Formation of Epoxy Networks, Including Reactive Liquid Elastomers. <i>Advances in Chemistry Series</i> , 1989 , 303-318		2
15	Brillouin scattering from epoxy resins and gels. <i>Polymer Bulletin</i> , 1989 , 21, 641-648	2.4	2
14	Constraints effects in swollen particulate composites with hyperelastic polymer matrix of finite extensibility modeled by FEM. <i>Journal of Physics: Conference Series</i> , 2014 , 490, 012207	0.3	1
13	Multifunctional polyurethane network structures. <i>Macromolecular Symposia</i> , 1999 , 148, 1-14	0.8	1
12	Experimental evidence of the volume dependence of the deformational free energy of polymer networks. <i>Polymer Bulletin</i> , 1979 , 1, 801-808	2.4	1
11	Swelling of Coating Films 2017 , 271-291		1
10	Formation of Polymer Networks: Treatment of Stochastic and Spatial Correlations Using Mean-Field Approximation. <i>Springer Proceedings in Physics</i> , 1985 , 107-112	0.2	1
9	Copolymer chain formation of 2-oxazolines by H-NMR spectroscopy: dependence of sequential composition on substituent structure and monomer ratios.. <i>RSC Advances</i> , 2021 , 11, 10468-10478	3.7	0
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