Karel Dusek

List of Publications by Year in Descending Order

177 papers	4,804 citations	37 h-index	60 g-index
181 ext. papers	4,994 ext. citations	3.5 avg, IF	5.23 L-index

#	Paper	IF	Citations
177	Copolymer chain formation of 2-oxazolines by H-NMR spectroscopy: dependence of sequential composition on substituent structure and monomer ratios.. *RSC Advances*, **2021**, 11, 10468-10478	3.7	0
176	Volume Phase Transition in Gels: Its Discovery and Development. *Gels*, **2020**, 6,	4.2	12
175	How to Force Polymer Gels to Show Volume Phase Transitions. *ACS Macro Letters*, **2019**, 8, 272-278	6.6	9
174	Microstructured poly(2-hydroxyethyl methacrylate)/poly(glycerol monomethacrylate) interpenetrating network hydrogels: UV-scattering induced accelerated formation and tensile behavior. *European Polymer Journal*, **2018**, 101, 304-313	5.2	8
173	Polymer Networks From Nanosized Functional Precursors. *Macromolecular Symposia*, **2017**, 372, 14-27	0.8	
172	The Manifold Varieties of Poly(2-Hydroxyethyl Methacrylate) HydrogelsIPNs. *Macromolecular Symposia*, **2017**, 372, 28-42	0.8	8
171	Swelling of Coating Films **2017**, 271-291		1
170	Role of Distributions in Binders and Curatives and Their Effect on Network Evolution and Structure **2017**, 3-37		
169	Effect of Constraints on Swelling of Polymer Networks. *Macromolecular Symposia*, **2015**, 358, 120-127	0.8	5
168	Macroporous 2-hydroxyethyl methacrylate hydrogels of dual porosity for cell cultivation: morphology, swelling, permeability, and mechanical behavior. *Journal of Polymer Research*, **2014**, 21, 1	2.7	22
167	Constrained Swelling of Polymer Networks: Characterization of Vapor-Deposited Cross-Linked Polymer Thin Films. *Macromolecules*, **2014**, 47, 4417-4427	5.5	20
166	Constraints effects in swollen particulate composites with hyperelastic polymer matrix of finite extensibility modeled by FEM. *Journal of Physics: Conference Series*, **2014**, 490, 012207	0.3	1
165	Polymer Networks from Preformed Precursors Having Molecular Weight and Group Reactivity Distributions. Theory and Application. *Macromolecules*, **2013**, 46, 2767-2784	5.5	10
164	Rheology and porosity control of poly(2-hydroxyethyl methacrylate) hydrogels. *Polymer*, **2013**, 54, 661-672	3.9	23
163	Nonuniformities of Distributions of Molecular Weights of Grafted Polymers. *Macromolecules*, **2012**, 45, 3240-3246	5.5	11
162	Rheological properties of homogeneous and heterogeneous poly(2-hydroxyethyl methacrylate) hydrogels. *Polymer International*, **2012**, 61, 328-336	3.3	28
161	Modeling of Polymer Network Formation from Preformed Precursors. *Macromolecular Reaction Engineering*, **2012**, 6, 426-445	1.5	19

160	Polymer Networks **2011**, 1687-1730		6
159	Diluent Induced Cyclization and Phase Separation in Polymer Networks. *Macromolecular Symposia*, **2011**, 306-307, 67-76	0.8	4
158	Effect of Dilution on Structure and Properties of Polyurethane Networks. Pregel and Postgel Cyclization and Phase Separation. *Macromolecules*, **2010**, 43, 6450-6462	5.5	23
157	Coiled-Coil Hydrogels. Effect of Grafted Copolymer Composition and Cyclization on Gelation. *Macromolecules*, **2009**, 42, 2265-2274	5.5	15
156	Rheological and thermal properties of agarose aqueous solutions and hydrogels. *Journal of Polymer Science, Part B: Polymer Physics*, **2008**, 46, 322-328	2.6	70
155	Effect of diluent on the gel point and mechanical properties of polyurethane networks. *Polymer Bulletin*, **2007**, 58, 201-211	2.4	14
154	My Fifty Years with Polymer Gels and Networks and Beyond. *Polymer Bulletin*, **2007**, 58, 321-338	2.4	12
153	Structure development in polyurethane networks based on star-like precursors **2007**, 4, 311-315		6
152	Applicability of Statistical Theories of Network Formation. *Macromolecular Symposia*, **2007**, 256, 18-27	0.8	6
151	Branching theories and thermodynamics used to help designing precursor architectures and binder systems. *Surface Coatings International Part B: Coatings Transactions*, **2006**, 89, 123-131		4
150	Synthesis and characterization of novel aromatic azo bond-containing pH-sensitive and hydrolytically cleavable IPN hydrogels. *Biomaterials*, **2006**, 27, 1140-51	15.6	49
149	Scratch- and mar-resistant refinish two-pack clear coats linear versus branched acrylics. *Surface Coatings International Part B: Coatings Transactions*, **2006**, 89, 275-283		6
148	Highly-branched off-stoichiometric functional polymers as polymer networks precursors. *Polymer*, **2005**, 46, 4265-4282	3.9	30
147	Solvent activity changes and phase separation during crosslinking of coating films. *Macromolecular Symposia*, **2003**, 198, 259-270	0.8	14
146	Polymer Networks from Precursors of Defined Architecture. Activation of Preexisting Branch Points. *Macromolecules*, **2003**, 36, 2915-2925	5.5	30
145	Swelling pressure induced phase-volume transition in hybrid biopolymer gels caused by unfolding of folded crosslinks: a model. *Biomacromolecules*, **2003**, 4, 1818-26	6.9	14
144	Polyurethane networks with controlled architecture of dangling chains. *Macromolecular Chemistry and Physics*, **2002**, 203, 1936-1948	2.6	30
143	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. *European Polymer Journal*, **2002**, 38, 875-883	5.2	18

142	Processes and states during polymer film formation by simultaneous crosslinking and solvent evaporation. *Journal of Materials Science*, **2002**, 37, 4733-4741	4.3	37
141	Novel Aromatic Azo-Containing pH-Sensitive Hydrogels: Synthesis and Characterization. *Macromolecules*, **2002**, 35, 7791-7803	5.5	35
140	Structure and properties of triolein-based polyurethane networks. *Biomacromolecules*, **2002**, 3, 1048-56	6.9	131
139	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. *Polymer Bulletin*, **2001**, 46, 99-106	2.4	12
138	A model for swelling changes in a covalently crosslinked gel caused by unfolding of folded domains. *Polymer Bulletin*, **2001**, 47, 351-358	2.4	7
137	Network structure formation during crosslinking of organic coating systems. *Progress in Polymer Science*, **2000**, 25, 1215-1260	29.6	176
136	Vapor pressure over stressed coating films. *Polymer Bulletin*, **2000**, 45, 83-88	2.4	2
135	Network structure dependence of volume and glass transition temperature. *Journal of Rheology*, **2000**, 44, 961-972	4.1	11
134	Formation and structure of the epoxy-silica hybrids. *Polymer*, **1999**, 40, 171-181	3.9	128
133	Role of cyclization in the degree-of-polymerization distribution of hyperbranched polymers Modelling and experiments. *Polymer Bulletin*, **1999**, 42, 489-496	2.4	100
132	Multifunctional polyurethane network structures. *Macromolecular Symposia*, **1999**, 148, 1-14	0.8	1
131	Structure evolution in epoxy–silica hybrids: sol–gel process. *Journal of Non-Crystalline Solids*, **1998**, 226, 114-121	3.9	79
130	Phase Transitions in Swollen Networks. 3. Swelling Behavior of Radiation Cross-Linked Poly(vinyl methyl ether) in Water *Macromolecules*, **1998**, 31, 2223-2229	5.5	99
129	Zero and Off-Zero Critical Concentrations in Systems Containing Polydisperse Polymers with Very High Molar Masses. 2. The System Water–Poly(vinyl methyl ether). *Macromolecules*, **1997**, 30, 410-416	5.5	146
128	Cationic polymerization of diglycidyl ether of Bisphenol A. III. Comparison of the theory with experiment. *Journal of Polymer Science Part A*, **1997**, 35, 665-672	2.5	19
127	Modelling of ring-free crosslinking chain (co)polymerization. *Polymer International*, **1997**, 44, 225-236	3.3	23
126	Hydroxyl-terminated oligomers crosslinked by alkoxysilane sol-gel or polyurethane chemistries: A comparison. *Journal of Applied Polymer Science*, **1997**, 65, 2373-2386	2.9	18
125	Topological nanoinhomogeneities in polymer networks. *Macromolecular Symposia*, **1996**, 106, 119-136	0.8	8

124	Kinetic and structural studies of the copolymerization of the cleavable bismaleimide p-maleimidobenzoic anhydride and styrene. *Macromolecular Chemistry and Physics*, **1996**, 197, 1577-1586	2.6	
123	Are cured thermoset resins inhomogeneous?. *Angewandte Makromolekulare Chemie*, **1996**, 240, 1-15		61
122	Blocked isocyanate. Reaction and thermal behaviour of the toluene 2,4-diisocyanate dimer. *Angewandte Makromolekulare Chemie*, **1996**, 242, 1-36		18
121	Network formation in the free-radical copolymerization of a bismaleimide and styrene. *Polymer*, **1996**, 37, 2233-2242	3.9	33
120	Diffusion control in the kinetics of cross-linking. *Polymer Gels and Networks*, **1996**, 4, 383-404		38
119	Curing of diglycidylamine-based epoxides with amines: Kinetic model and simulation of structure development. *Journal of Polymer Science Part A*, **1995**, 33, 461-472	2.5	8
118	"Zero" and "Off-Zero" Critical Concentrations in Solutions of Polydisperse Polymers with Very High Molar Masses. *Collection of Czechoslovak Chemical Communications*, **1995**, 60, 1661-1688		50
117	Phase Transitions in Swollen Networks. *Macromolecules*, **1995**, 28, 1103-1107	5.5	114
116	Chemical clusters in polymer networks. *Faraday Discussions*, **1995**, 101, 147-158	3.6	10
115	Development and Evaluation of a Monte Carlo Technique for the Simulation of Multifunctional Polymerizations. *Macromolecules*, **1995**, 28, 5910-5920	5.5	24
114	Kinetic Monte-Carlo simulation of network formation. *Polymer Bulletin*, **1994**, 33, 369-376	2.4	41
113	Kinetic Monte-Carlo simulation of network formation. *Polymer Bulletin*, **1994**, 33, 377-384	2.4	33
112	Diffusion controlled kinetics of crosslinking. *Progress in Organic Coatings*, **1993**, 22, 145-159	4.8	33
111	Size and mass of branched epoxy resins. *Polymer*, **1993**, 34, 2816-2820	3.9	3
110	Effect of the ratio of reactive groups on gelation and cyclization during polyurethane network formation. *Polymer*, **1993**, 34, 5157-5162	3.9	11
109	Structure and elasticity of polyurethane networks based on poly(butadiene) diol, 4,4?-diphenylmethane diisocyanate and poly(oxypropylene) triol. *Polymer*, **1993**, 34, 3437-3445	3.9	8
108	Formation of poly(urethane-isocyanurate) networks from poly(oxypropylene)diols and diisocyanate. *Polymer Bulletin*, **1993**, 31, 83-88	2.4	8
107	Special Features of Network Formation by Chain Crosslinking Copolymerization. *Collection of Czechoslovak Chemical Communications*, **1993**, 58, 2245-2265		30

106	Network Formation Theories and Their Application to Systems of Industrial Importance **1992**, 283-301		4
105	Network formation in polyurethanes due to allophanate and biuret formation: Gel fraction and equilibrium modulus. *Makromolekulare Chemie Macromolecular Symposia*, **1991**, 45, 87-95		8
104	Cyclization in amine-cured N,N-diglycidylaniline epoxy resins. *Polymer*, **1991**, 32, 3190-3194	3.9	11
103	Influence of the reaction mechanism on network formation in amine-cured N,N-diglycidylamine epoxy resins. *Polymer*, **1991**, 32, 3195-3200	3.9	12
102	The effect of crosslinking on properties of polyurethane elastomers. *Journal of Applied Polymer Science*, **1991**, 42, 391-398	2.9	36
101	Theories for network formation in multistage processes. *Journal of Polymer Science, Part B: Polymer Physics*, **1991**, 29, 463-482	2.6	30
100	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. *Colloid and Polymer Science*, **1991**, 269, 1013-1020	2.4	7
99	Build-up of polymer networks by initiated polyreactions. *Polymer Bulletin*, **1991**, 25, 231-237	2.4	10
98	Polymer Networks: A Challenge to Theorist and Technologist. *Journal of Macromolecular Science Part A, Chemistry*, **1991**, 28, 843-863		17
97	Polymer Networks: Structure, Formation and Properties. *Journal of Bioactive and Compatible Polymers*, **1991**, 6, 247-255	2	2
96	Polymerization of epoxides in the presence of tertiary amino alcohols. *Journal of Polymer Science Part A*, **1990**, 28, 2305-2319	2.5	13
95	Network formation of polyurethanes due to side reactions. *Macromolecules*, **1990**, 23, 1774-1781	5.5	66
94	Formation of Epoxy Networks, Including Reactive Liquid Elastomers. *Advances in Chemistry Series*, **1989**, 303-318		2
93	Effect of dilution during network formation on the sol fraction and elasticity of polyurethane networks. *Die Makromolekulare Chemie*, **1989**, 190, 883-891		18
92	Curing of epoxides. Reaction of dicyanodiamide with phenylglycidyl ether. *Angewandte Makromolekulare Chemie*, **1989**, 172, 185-194		13
91	Cure monitoring of epoxy resins by fluorescence quenching. *Polymer Bulletin*, **1989**, 22, 585-592	2.4	12
90	Extent of side reactions and gelation of polyether polyurethanes. *Polymer Bulletin*, **1989**, 22, 191-198	2.4	10
89	Brillouin scattering from epoxy resins and gels. *Polymer Bulletin*, **1989**, 21, 641-648	2.4	2

88	Mechanism and kinetics of curing of epoxides based on diglycidylamine with aromatic amines. 1. The reaction of diglycidylaniline with secondary amines. *Macromolecules*, **1989**, 22, 2902-2910	5.5	28
87	Mechanism and kinetics of curing of epoxides based on diglycidylamine with aromatic amines. 2. The reaction between diglycidylaniline and aniline. *Macromolecules*, **1989**, 22, 2911-2917	5.5	25
86	Dynamic - mechanical properties of poly(oxypropylene)di-amine-diepoxide and poly(oxypropylene)triamine-diepoxide networks and their relationship to the structure of elastically active network chains. *Makromolekulare Chemie Macromolecular Symposia*, **1989**, 30, 13-30		7
85	Dependence of viscoelastic spectrum width on the structure of model imperfect networks prepared by endlinking. *Colloid and Polymer Science*, **1988**, 266, 324-332	2.4	11
84	Spectroscopic characterization of 1,5-diphenyl-3,7-dihydroxy-1,5-diazacyclooctane (8C ring compound) formed in N,N-diglycidylanaline/aniline curing systems. *Polymer Bulletin*, **1988**, 19, 269-274	2.4	4
83	Cross-Linking and Structure of Polymer Networks. *ACS Symposium Series*, **1988**, 2-27	0.4	7
82	Effect of Dilution During Network Formation on Cyclization and Topological Constraints in Polyurethane Networks **1988**, 233-242		
81	Thermodynamics Of Swelling Of Model Networks **1988**, 269-282		
80	Special Features of Network Build-Up in Curing of Polyepoxides Based on N,N-Diglycidylaniline Derivatives **1988**, 335-344		
79	Network build-up and structure in curing of epoxy resins. *Makromolekulare Chemie Macromolecular Symposia*, **1987**, 7, 37-53		7
78	Side Reactions in the Formation of Polyurethanes: Model Reactions Between Phenylisocyanate and 1-Butanol. *Journal of Macromolecular Science Part A, Chemistry*, **1987**, 24, 1151-1166		22
77	Swelling of model networks. *Macromolecules*, **1987**, 20, 1088-1096	5.5	45
76	Network build-up by initiated polyreaction. *Polymer Bulletin*, **1987**, 18, 209-215	2.4	11
75	Theory of network formation by additional crosslinking of polyurethanes due to biuret and allophanate formation. *Polymer Bulletin*, **1987**, 17, 481-488	2.4	7
74	Light scattering from dilute solutions of critically branched epoxy resins. *Polymer Bulletin*, **1987**, 18, 329-336	2.4	4
73	Build-up of polymer networks by initiated polyreactions. *Polymer Bulletin*, **1987**, 17, 515-521	2.4	15
72	Theoretical treatment of network formation by a multistage process. *Polymer Bulletin*, **1987**, 17, 239-245	2.4	19
71	Application of the theory of branching processes (cascade theory) to polymer degradation and crosslinking: Postgel stage. *International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements*, **1986**, 28, 479-486		

70	Small-angle scattering by polyelectrolyte solutions: Interpretation of molecular weight dependence of the scattering peak position. *Polymer*, **1986**, 27, 925-930	3.9	5
69	Specific features of the kinetics of addition esterification of epoxide with the carboxyl group. *Polymer Bulletin*, **1986**, 15, 215-221	2.4	20
68	Cyclization in the reaction between diglycidylaniline and amine. *Polymer Bulletin*, **1986**, 15, 389-396	2.4	22
67	Network formation in curing of epoxy resins **1986**, 1-59		138
66	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). *Macromolecules*, **1986**, 19, 2139-2146	5.5	59
65	Curing of epoxy resins with amines. *Polymer Bulletin*, **1985**, 14, 309-315	2.4	22
64	Build-up of polymer networks by initiated polyreactions. *Polymer Bulletin*, **1985**, 13, 313-319	2.4	31
63	Build-up of polymer networks by initiated polyreactions. *Polymer Bulletin*, **1985**, 13, 321-328	2.4	25
62	Formation-structure relationships in polymer networks. *British Polymer Journal*, **1985**, 17, 185-189		52
61	Curing of epoxy resins: configurational structure and reactivity of stereoisomers in the model reaction of diglycidylaniline with N-methylaniline. *Polymer Bulletin*, **1985**, 14, 123-129	2.4	9
60	Acid curing of epoxy resins. A comparison between the polymerization of diepoxide-diacid and monoepoxide-cyclic anhydride systems. *Die Makromolekulare Chemie*, **1985**, 186, 2025-2036		30
59	Formation of Polymer Networks: Treatment of Stochastic and Spatial Correlations Using Mean-Field Approximation. *Springer Proceedings in Physics*, **1985**, 107-112	0.2	1
58	Cross-linking of Epoxy Resins. *Advances in Chemistry Series*, **1984**, 3-14		11
57	Dynamic and static light scattering from critically branched polymer solutions. *Die Makromolekulare Chemie*, **1984**, 185, 2543-2552		13
56	Formation, structure, and elasticity of loosely crosslinked epoxy-amine networks. II. Mechanical and optical properties. *Journal of Polymer Science, Polymer Physics Edition*, **1984**, 22, 265-278		32
55	Statistical treatment of allophanate crosslinking in the formation of polyurethane networks. *Polymer Bulletin*, **1984**, 12, 33-40	2.4	13
54	Size of network chains. *Macromolecules*, **1984**, 17, 716-722	5.5	34
53	The Toughening of Epoxy Resins with Reactive Polybutadienes. *Advances in Chemistry Series*, **1984**, 27-35		13

52	Transesterification and Gelation of Polyhydroxy Esters Formed from Diepoxides and Dicarboxylic Acids. *Advances in Chemistry Series*, **1984**, 15-26		12
51	Curing epoxy resins with anhydrides. Model reactions and reaction mechanism. *Journal of Polymer Science: Polymer Chemistry Edition*, **1983**, 21, 2873-2885		92
50	Formation, structure, and elasticity of loosely crosslinked epoxy-amine networks. I. Statistics of formation. *Journal of Polymer Science, Polymer Physics Edition*, **1983**, 21, 1323-1339		32
49	The structure and elasticity of polyurethane networks: 1. Model networks of poly(oxypropylene) triols and diisocyanate. *Polymer*, **1983**, 24, 981-990	3.9	58
48	Structure and Elasticity of Loose Step Polyaddition Networks. *ACS Symposium Series*, **1982**, 403-417	0.4	
47	Simulation of polymer network formation by the Monte Carlo method. *Macromolecules*, **1982**, 15, 93-99	5.5	97
46	Mechanical behavior and structure of single beads of homogeneous and macroporous styrene–divinylbenzene copolymers. *Journal of Applied Polymer Science*, **1982**, 27, 277-288	2.9	23
45	The viscoelastic and equilibrium rheooptical behaviour of crosslinked ethylene-propylene copolymers. *Colloid and Polymer Science*, **1981**, 259, 1190-1197	2.4	5
44	Evidence of polyion hydration from X-ray and neutron small-angle scattering experiments. *Polymer Bulletin*, **1981**, 4, 225-231	2.4	11
43	Photomechanical effects in crosslinked photochromic polymers. *Polymer*, **1981**, 22, 1511-1515	3.9	58
42	Inhomogeneities and deviations from the Gaussian photoelastic behavior of networks. *Journal of Macromolecular Science - Physics*, **1981**, 19, 227-236	1.4	8
41	The photoelastic behaviour and small-angle x-ray scattering of ionized gels of copolymers of 2-hydroxyethyl methacrylate with methacrylic acid. *European Polymer Journal*, **1980**, 16, 901-907	5.2	9
40	Epoxide networks as model networks. *Colloid and Polymer Science*, **1980**, 258, 605-611	2.4	10
39	Features of network formation in the chain crosslinking (co)polymerization. *Polymer Bulletin*, **1980**, 3-3, 19-25	2.4	99
38	The photoelastic behaviour of the ionized poly(acrylic acid) network. *Polymer Bulletin*, **1980**, 3-3, 481-487	2.4	5
37	Formation of polyurethane networks studied by the gel point method. *Polymer Bulletin*, **1980**, 3-3, 489-495	2.4	26
36	The relaxation and equilibrium behaviour of model polyurethane networks. *Polymer Bulletin*, **1980**, 3-3, 497-503	2.4	11
35	Calculation of the molecular weight distribution of crosslinked polymer chains using the theory of branching processes. *British Polymer Journal*, **1980**, 12, 1-4		5

34	Manifestation of microgel-like particles of styrene-ethylene dimethacrylate copolymers in solution in 1H and 13C NMR spectra. *Journal of Polymer Science, Polymer Physics Edition*, **1980**, 18, 2027-2035		35
33	The photoelastic behaviour of swollen networks of polymethacrylic acid. *European Polymer Journal*, **1980**, 16, 191-199	5.2	8
32	The structure of low conversion polymers of ethylene dimethacrylate. *European Polymer Journal*, **1980**, 16, 1043-1046	5.2	47
31	Effect of composition on the mechanical properties of blends of the copolymer ABS with polyamides 6 and 12. *Journal of Applied Polymer Science*, **1980**, 25, 2493-2500	2.9	9
30	Cyclization in vinyl-divinyl copolymerization. *Polymer*, **1980**, 21, 750-756	3.9	92
29	Statistics of Degradation and Cross-Linking of Polymer Chains with the Use of the Theory of Branching Processes. *Macromolecules*, **1980**, 13, 571-579	5.5	21
28	The thermal effect in the photomechanical conversion of a photochromic polymer. *Polymer Bulletin* , **1979**, 1, 659-664	2.4	35
27	Correspondence between the theory of branching processes and the kinetic theory for random crosslinking in the post-gel stage. *Polymer Bulletin*, **1979**, 1, 523-528	2.4	44
26	Experimental evidence of the volume dependence of the deformational free energy of polymer networks. *Polymer Bulletin*, **1979**, 1, 801-808	2.4	1
25	Problems of structural characterization of polymer networks. *Polymer Engineering and Science*, **1979**, 19, 246-253	2.3	6
24	Deformational, swelling, and potentiometric behavior of ionized gels of 2-hydroxyethyl methacrylate–methacrylic acid copolymers. *Journal of Applied Polymer Science*, **1979**, 23, 2073-2082	2.9	34
23	Viscoelastic behavior of interpenetrating networks of polyurethane and polyurethane acrylate. *Journal of Applied Polymer Science*, **1979**, 24, 1007-1015	2.9	10
22	Crosslinking and networks. *Die Makromolekulare Chemie*, **1979**, 2, 35-49		55
21	Comparison of the viscoelastic penetration and tensile behaviour of poly(methyl acrylate) and poly(ethyl acrylate). *Collection of Czechoslovak Chemical Communications*, **1979**, 44, 1942-1948		5
20	A photosensitive polymer as recording material in holography. *Polymer Bulletin*, **1978**, 1, 167-170	2.4	5
19	Effect of diffusion control in the glass transition region on critical conversion at the gel point during curing of epoxy resins. *Polymer*, **1978**, 19, 931-933	3.9	68
18	Are cured epoxy resins inhomogeneous?. *Polymer*, **1978**, 19, 393-397	3.9	96
17	Solution properties of poly(methacrylamide). *European Polymer Journal*, **1978**, 14, 145-149	5.2	7

16	Preparation and properties of poly-(N-butylmethacrylamide) networks. *European Polymer Journal*, **1978**, 14, 45-49	5.2	31
15	Graphlike State of Matter. 10. Cyclization and Concentration of Elastically Active Network Chains in Polymer Networks. *Macromolecules*, **1978**, 11, 236-245	5.5	87
14	Comparison of the penetration, tensile and compression moduli of elasticity of poly(n-alkyl acrylate) networks in the rubberlike state. *Collection of Czechoslovak Chemical Communications*, **1978**, 43, 1999-2007		22
13	Preparation and properties of poly(N-ethylmethacrylamide) networks. *European Polymer Journal*, **1977**, 13, 579-585	5.2	19
12	Concentration of elastically active network chains and cyclisation in networks obtained by alternating stepwise polyaddition. *British Polymer Journal*, **1977**, 9, 164-171		60
11	Correlations between the sol fraction and concentration of elastically active network chains. *British Polymer Journal*, **1977**, 9, 172-176		8
10	Curing of epoxide resins: Model reactions of curing with amines. *Journal of Polymer Science: Polymer Chemistry Edition*, **1977**, 15, 2393-2400		72
9	Formation of polyurethane networks based on poly(propylene glycol) and 4,4?-diphenylmethane diisocyanate. *Angewandte Makromolekulare Chemie*, **1976**, 52, 39-52		6
8	The growth of PbHPO4 and Pb4 (NO3)2(PO4)2 □2H2O in gels. *Journal of Crystal Growth*, **1976**, 34, 248-252	1.6	41
7	Hydrophilic gels based on copolymers of 2-hydroxyethyl methacrylate with methacrylamide and acrylamide. *Journal of Applied Polymer Science*, **1975**, 19, 3061-3075	2.9	34
6	Deformational, swelling, and potentiometric behavior of ionized poly(methacrylic acid) gels. I. Theory. *Journal of Polymer Science, Polymer Physics Edition*, **1975**, 13, 253-262		104
5	Relaxation behavior of polymethacrylamide and polyacrylamide and of their copolymers with 2-hydroxyethyl methacrylate. *Journal of Macromolecular Science - Physics*, **1974**, 10, 157-168	1.4	6
4	Effect of urea on the behaviour of poly(2-hydroxyethyl methacrylate)-water mixtures. *European Polymer Journal*, **1974**, 10, 239-247	5.2	17
3	Quasichemical approach to crosslinked polymer solutions and the swelling equation for polycondensation networks. *Journal of Polymer Science, Polymer Physics Edition*, **1974**, 12, 1089-1107		7
2	Phase separation during the formation of three-dimensional polymers. *Journal of Polymer Science Part B: Polymer Letters*, **1965**, 3, 209-212		46
1	Kinetics of the reactions of thiourea with formaldehyde. Reactions in alkaline media. *Journal of Polymer Science*, **1958**, 30, 431-458		7