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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

204 papers	9,181 citations	51 h-index	87 g-index
208 ext. papers	9,965 ext. citations	4 avg, IF	6.74 L-index

#	Paper	IF	Citations
204	Macroporous copolymer networks. <i>Progress in Polymer Science</i> , 2000 , 25, 711-779	29.6	633
203	Tough and Self-Healing Hydrogels Formed via Hydrophobic Interactions. <i>Macromolecules</i> , 2011 , 44, 4997-5005	5.5	569
202	Polyacrylamide/Clay Nanocomposite Hydrogels: Rheological and Light Scattering Characterization. <i>Macromolecules</i> , 2007 , 40, 3378-3387	5.5	255
201	Acrylamide/2-acrylamido-2-methylpropane sulfonic acid sodium salt-based hydrogels: synthesis and characterization. <i>Polymer</i> , 2000 , 41, 3693-3704	3.9	244
200	Evaluation of butyl rubber as sorbent material for the removal of oil and polycyclic aromatic hydrocarbons from seawater. <i>Environmental Science & Technology</i> , 2009 , 43, 3846-52	10.3	234
199	Design of high-toughness polyacrylamide hydrogels by hydrophobic modification. <i>Polymer</i> , 2009 , 50, 5449-5455	3.9	208
198	Self-Healing Poly(acrylic acid) Hydrogels with Shape Memory Behavior of High Mechanical Strength. <i>Macromolecules</i> , 2014 , 47, 6889-6899	5.5	201
197	Dynamics and Large Strain Behavior of Self-Healing Hydrogels with and without Surfactants. <i>Macromolecules</i> , 2012 , 45, 1991-2000	5.5	191
196	Microgels-Intramolecularly Crosslinked Macromolecules with a Globular Structure 1998 , 139-234		190
195	Macroporous poly(N-isopropyl)acrylamide networks: formation conditions. <i>Polymer</i> , 2001 , 42, 7639-7652	3.9	147
194	Structure optimization of self-healing hydrogels formed via hydrophobic interactions. <i>Polymer</i> , 2012 , 53, 5513-5522	3.9	142
193	Formation and structure of polyacrylamide gels. <i>Journal of Applied Polymer Science</i> , 1996 , 60, 971-979	2.9	135
192	Charge density dependence of elastic modulus of strong polyelectrolyte hydrogels. <i>Polymer</i> , 2002 , 43, 1215-1221	3.9	117
191	Macroporous silk fibroin cryogels. <i>Biomacromolecules</i> , 2013 , 14, 719-27	6.9	106
190	Freezing as a path to build macroporous structures: Superfast responsive polyacrylamide hydrogels. <i>Polymer</i> , 2007 , 48, 195-204	3.9	100
189	Effect of Initial Monomer Concentration on Spatial Inhomogeneity in Poly(acrylamide) Gels. <i>Macromolecules</i> , 2003 , 36, 6856-6862	5.5	97
188	Melt-Processable Shape-Memory Hydrogels with Self-Healing Ability of High Mechanical Strength. <i>Macromolecules</i> , 2016 , 49, 7442-7449	5.5	93

187	Rubber Elasticity of Poly(N-isopropylacrylamide) Gels at Various Charge Densities. <i>Macromolecules</i> , 2002 , 35, 5616-5622	5.5	90
186	Kinetics of emulsifier-free emulsion polymerization of methyl methacrylate. <i>Journal of Applied Polymer Science</i> , 1996 , 61, 485-493	2.9	90
185	Superfast responsive ionic hydrogels with controllable pore size. <i>Polymer</i> , 2005 , 46, 8119-8127	3.9	86
184	Self-healing polyacrylic acid hydrogels. <i>Soft Matter</i> , 2013 , 9, 10287	3.6	84
183	Cyclization and Reduced Pendant Vinyl Group Reactivity during the Free-Radical Crosslinking Polymerization of 1,4-Divinylbenzene. <i>Macromolecules</i> , 1995 , 28, 2728-2737	5.5	84
182	Swelling, Elasticity and Spatial Inhomogeneity of Poly(N,N-dimethylacrylamide) Hydrogels Formed at Various Polymer Concentrations. <i>Macromolecular Chemistry and Physics</i> , 2004 , 205, 814-823	2.6	81
181	Shape Memory Hydrogels via Micellar Copolymerization of Acrylic Acid and n-Octadecyl Acrylate in Aqueous Media. <i>Macromolecules</i> , 2013 , 46, 3125-3131	5.5	80
180	A Brief History of Polymeric Cryogels. <i>Advances in Polymer Science</i> , 2014 , 1-48	1.3	78
179	Swelling behavior of anionic acrylamide-based hydrogels in aqueous salt solutions: Comparison of experiment with theory. <i>Journal of Applied Polymer Science</i> , 1998 , 70, 567-575	2.9	78
178	Boron pollution in the Simav River, Turkey and various methods of boron removal. <i>Water Research</i> , 1985 , 19, 857-862	12.5	78
177	Swelling behavior of poly(acrylamide-co-sodium acrylate) hydrogels in aqueous salt solutions: theory versus experiments. <i>European Polymer Journal</i> , 2000 , 36, 393-399	5.2	77
176	Basic Principles of Cryotropic Gelation. <i>Advances in Polymer Science</i> , 2014 , 49-101	1.3	77
175	Nanostructural Evolution and Self-Healing Mechanism of Micellar Hydrogels. <i>Macromolecules</i> , 2016 , 49, 2281-2287	5.5	76
174	Self-healing hydrogels formed in catanionic surfactant solutions. <i>Soft Matter</i> , 2013 , 9, 2254	3.6	76
173	General Properties of Hydrogels. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2009 , 1-14	2	75
172	Structure and protein separation efficiency of poly(N-isopropylacrylamide) gels: Effect of synthesis conditions. <i>Journal of Applied Polymer Science</i> , 1998 , 67, 805-814	2.9	73
171	Nonionic Double and Triple Network Hydrogels of High Mechanical Strength. <i>Macromolecules</i> , 2014 , 47, 6430-6440	5.5	69
170	Effect of hydrolysis on spatial inhomogeneity in poly(acrylamide) gels of various crosslink densities. <i>Polymer</i> , 2003 , 44, 5239-5250	3.9	69

- 169 Equilibrium swelling behavior and elastic properties of polymer/clay nanocomposite hydrogels. *Journal of Applied Polymer Science*, **2008**, 109, 3714-3724 2.9 67
- 168 Autonomic self-healing in covalently crosslinked hydrogels containing hydrophobic domains. *Polymer*, **2013**, 54, 6381-6388 3.9 66
- 167 Macroporous Polyisobutylene Gels: A Novel Tough Organogel with Superfast Responsivity. *Macromolecules*, **2007**, 40, 8742-8749 5.5 65
- 166 Temperature sensitive poly(N-t-butylacrylamide-co-acrylamide) hydrogels: synthesis and swelling behavior. *Polymer*, **2002**, 43, 5017-5026 3.9 65
- 165 Free-radical crosslinking copolymerization of styrene and divinylbenzene: real time monitoring of the gel effect using fluorescence probe. *Polymer*, **1999**, 40, 6179-6187 3.9 65
- 164 Highly stretchable self-healing poly(N,N-dimethylacrylamide) hydrogels. *European Polymer Journal*, **2014**, 59, 113-121 5.2 64
- 163 Rheological Behavior of Responsive DNA Hydrogels. *Macromolecules*, **2008**, 41, 8847-8854 5.5 64
- 162 Unusual swelling behavior of polymer/clay nanocomposite hydrogels. *Polymer*, **2007**, 48, 5016-5023 3.9 61
- 161 Synthesis and Structure-Property Relationships of Cryogels. *Advances in Polymer Science*, **2014**, 103-157 1.3 59
- 160 Synthesis and formation mechanism of porous 2-hydroxyethyl methacrylate-ethylene glycol dimethacrylate copolymer beads. *Journal of Applied Polymer Science*, **1992**, 46, 401-410 2.9 55
- 159 Real time monitoring of polymerization rate of methyl methacrylate using fluorescence probe. *Polymer*, **1997**, 38, 1693-1698 3.9 54
- 158 Correlation between crosslinking efficiency and spatial inhomogeneity in poly(acrylamide) hydrogels. *Polymer Bulletin*, **2006**, 57, 631-641 2.4 52
- 157 Swelling of strong polyelectrolyte hydrogels in polymer solutions: effect of ion pair formation on the polymer collapse. *Polymer*, **2000**, 41, 5737-5747 3.9 52
- 156 Yielding Behavior of Tough Semicrystalline Hydrogels. *Macromolecules*, **2017**, 50, 3647-3654 5.5 51
- 155 Solution Cross-Linked Natural Rubber (NR)/Clay Aerogel Composites. *Macromolecules*, **2011**, 44, 923-931 5.5 51
- 154 Formation of hydrogels by simultaneous denaturation and cross-linking of DNA. *Biomacromolecules*, **2009**, 10, 2652-61 6.9 51
- 153 Solution Cross-Linked Poly(isobutylene) Gels: Synthesis and Swelling Behavior. *Macromolecules*, **2000**, 33, 4822-4827 5.5 51
- 152 Phase separation in free-radical crosslinking copolymerization: formation of heterogeneous polymer networks. *Polymer*, **1999**, 40, 4117-4129 3.9 51

151	Fluorescence technique for studying the sol-gel transition in the free-radical crosslinking copolymerization of methyl methacrylate and ethylene glycol dimethacrylate. <i>Chemical Physics Letters</i> , 1994 , 229, 537-540	2.5	51
150	Cryogel composites based on hyaluronic acid and halloysite nanotubes as scaffold for tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2019 , 130, 627-635	7.9	50
149	Network Development in Mixed Step-Chain Growth Thiol/Vinyl Photopolymerizations. <i>Macromolecules</i> , 2006 , 39, 8832-8843	5.5	50
148	Macroporous rubber gels as reusable sorbents for the removal of oil from surface waters. <i>Reactive and Functional Polymers</i> , 2010 , 70, 585-595	4.6	49
147	Gel formation by chain-crosslinking photopolymerization of methyl methacrylate and ethylene glycol dimethacrylate. <i>Polymer</i> , 1997 , 38, 1187-1196	3.9	49
146	Anionic dispersion polymerization of 1,4-divinylbenzene. <i>Macromolecules</i> , 1990 , 23, 2623-2628	5.5	49
145	Modification of polyindole by the incorporation of pyrrole unit. <i>Journal of Applied Polymer Science</i> , 2002 , 85, 814-820	2.9	48
144	Free-radical crosslinking copolymerization: Effect of cyclization on diffusion-controlled termination at low conversion. <i>Polymer</i> , 1995 , 36, 2413-2419	3.9	48
143	Swelling behavior of strong polyelectrolyte poly(N-t-butylacrylamide-co-acrylamide) hydrogels. <i>European Polymer Journal</i> , 2003 , 39, 877-886	5.2	47
142	Spatial inhomogeneity in poly(acrylic acid) hydrogels. <i>Polymer</i> , 2005 , 46, 2595-2602	3.9	47
141	Reentrant conformation transition in poly(N,N-dimethylacrylamide) hydrogels in water/organic solvent mixtures. <i>Polymer</i> , 2006 , 47, 561-568	3.9	46
140	Kinetic modelling of network formation and properties in free-radical crosslinking copolymerization. <i>Polymer</i> , 1994 , 35, 796-807	3.9	46
139	A Self-Healing and Highly Stretchable Polyelectrolyte Hydrogel via Cooperative Hydrogen Bonding as a Superabsorbent Polymer. <i>Macromolecules</i> , 2019 , 52, 3257-3267	5.5	45
138	Swelling/Deswelling kinetics of ionic poly(acrylamide) hydrogels and cryogels. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 319-325	2.9	45
137	Preparation and physical properties of hyaluronic acid-based cryogels. <i>Journal of Applied Polymer Science</i> , 2015 , 132,	2.9	44
136	Dodecyl methacrylate as a crosslinker in the preparation of tough polyacrylamide hydrogels. <i>Polymer</i> , 2011 , 52, 694-699	3.9	43
135	Macroporous, responsive DNA cryogel beads. <i>Reactive and Functional Polymers</i> , 2011 , 71, 782-790	4.6	41
134	Formation of macroporous poly(acrylamide) hydrogels in DMSO/water mixture: Transition from cryogelation to phase separation copolymerization. <i>Reactive and Functional Polymers</i> , 2008 , 68, 1467-1475	4.6	41

133	Kinetic Modeling of Thiol-Ene Reactions with Both Step and Chain Growth Aspects. <i>Macromolecular Theory and Simulations</i> , 2005 , 14, 267-277	1.5	39
132	In situ fluorescence experiments to test the reliability of random bond and site bond percolation models during sol-gel transition in free-radical crosslinking copolymerization. <i>Polymer</i> , 1996 , 37, 2049-2053	3.9	39
131	Mechanically robust and stretchable silk/hyaluronic acid hydrogels. <i>Carbohydrate Polymers</i> , 2019 , 208, 413-420	10.3	38
130	High-strength semi-crystalline hydrogels with self-healing and shape memory functions. <i>European Polymer Journal</i> , 2016 , 81, 12-23	5.2	37
129	Polyampholyte hydrogels formed via electrostatic and hydrophobic interactions. <i>European Polymer Journal</i> , 2017 , 88, 191-204	5.2	36
128	Diepoxide-triggered conformational transition of silk fibroin: formation of hydrogels. <i>Biomacromolecules</i> , 2012 , 13, 1122-8	6.9	36
127	Macroporous hydrogel beads of high toughness and superfast responsivity. <i>Reactive and Functional Polymers</i> , 2009 , 69, 273-280	4.6	35
126	Phase separation during the formation of poly(acrylamide) hydrogels. <i>Polymer</i> , 2000 , 41, 5729-5735	3.9	35
125	Evidence of Strain Hardening in DNA Gels. <i>Macromolecules</i> , 2010 , 43, 1530-1538	5.5	34
124	Formation and structural characteristics of porous ethylene glycol dimethacrylate networks. <i>Journal of Applied Polymer Science</i> , 1992 , 46, 421-434	2.9	34
123	Highly Stretchable DNA/Clay Hydrogels with Self-Healing Ability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8296-8306	9.5	32
122	Polymeric Cryogels. <i>Advances in Polymer Science</i> , 2014 ,	1.3	32
121	DNA hydrogels: New functional soft materials. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 551-556	2.6	32
120	Preparation of homogeneous polyacrylamide hydrogels by free-radical crosslinking copolymerization. <i>European Polymer Journal</i> , 2007 , 43, 2913-2921	5.2	32
119	Shake gels based on Laponite/PEO mixtures: effect of polymer molecular weight. <i>Designed Monomers and Polymers</i> , 2005 , 8, 453-462	3.1	32
118	Tough organogels based on polyisobutylene with aligned porous structures. <i>Polymer</i> , 2008 , 49, 4626-4634	3.4	31
117	Preparation of Macroporous Acrylamide-based Hydrogels: Cryogelation under Isothermal Conditions. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007 , 44, 1195-1202	2.2	31
116	Effect of swelling on spatial inhomogeneity in poly(acrylamide) gels formed at various monomer concentrations. <i>Polymer</i> , 2004 , 45, 2567-2576	3.9	31

115	Inhomogeneities in poly(acrylamide) gels: position-dependent elastic modulus measurements. <i>Polymer Bulletin</i> , 2001 , 46, 409-418	2.4	31
114	Semicrystalline physical hydrogels with shape-memory and self-healing properties. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 1581-1596	7.3	30
113	Influence of the initiator system on the spatial inhomogeneity in acrylamide-based hydrogels. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 3228-3237	2.9	30
112	Self-Healing Hydrogels Formed via Hydrophobic Interactions. <i>Advances in Polymer Science</i> , 2015 , 101-142	3	29
111	Macroporous poly(N-isopropylacrylamide) networks. <i>Polymer Bulletin</i> , 2002 , 48, 499-506	2.4	29
110	Tough interpenetrating Pluronic F127/polyacrylic acid hydrogels. <i>Polymer</i> , 2013 , 54, 2979-2987	3.9	28
109	Swelling/Deswelling kinetics of poly(N-isopropylacrylamide) hydrogels formed in PEG solutions. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 37-44	2.9	28
108	Suppression of inhomogeneities in hydrogels formed by free-radical crosslinking copolymerization. <i>Polymer</i> , 2005 , 46, 11407-11415	3.9	28
107	Styrene-divinylbenzene copolymers. VI. Porosity formation in the presence of toluene-cyclohexanol mixtures as inert diluents. <i>Angewandte Makromolekulare Chemie</i> , 1988 , 157, 1-13		28
106	Hybrid cross-linked poly(2-acrylamido-2-methyl-1-propanesulfonic acid) hydrogels with tunable viscoelastic, mechanical and self-healing properties. <i>Reactive and Functional Polymers</i> , 2018 , 123, 70-79	4.6	27
105	Interfacing Soft and Hard Materials with Triple-Shape-Memory and Self-Healing Functions. <i>Macromolecules</i> , 2018 , 51, 2437-2446	5.5	27
104	Swelling of polyacrylamide gels in polyacrylamide solutions 1998 , 36, 1313-1320		26
103	Pore memory of macroporous styrene-divinylbenzene copolymers. <i>Journal of Applied Polymer Science</i> , 1999 , 71, 1055-1062	2.9	26
102	Heterogeneous styrene-divinylbenzene copolymers. Stability conditions of the porous structures. <i>Journal of Applied Polymer Science</i> , 1986 , 32, 5533-5542	2.9	26
101	Preparation and fracture process of high strength hyaluronic acid hydrogels cross-linked by ethylene glycol diglycidyl ether. <i>Reactive and Functional Polymers</i> , 2016 , 109, 42-51	4.6	26
100	High-strength and self-recoverable silk fibroin cryogels with anisotropic swelling and mechanical properties. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 1279-1289	7.9	26
99	High-strength silk fibroin scaffolds with anisotropic mechanical properties. <i>Polymer</i> , 2017 , 112, 61-70	3.9	25
98	Self-healing poly(N-isopropylacrylamide) hydrogels. <i>European Polymer Journal</i> , 2015 , 72, 12-22	5.2	25

97	Mechanically strong hyaluronic acid hydrogels with an interpenetrating network structure. <i>European Polymer Journal</i> , 2017 , 94, 185-195	5.2	25
96	Reentrant Phase Transition of Strong Polyelectrolyte Poly(N-isopropylacrylamide) Gels in PEG Solutions. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 304-312	2.6	25
95	Ethidium bromide binding to DNA cryogels. <i>Reactive and Functional Polymers</i> , 2013 , 73, 442-450	4.6	24
94	Hierarchically macroporous cryogels of polyisobutylene and silica nanoparticles. <i>Langmuir</i> , 2010 , 26, 7574-81	4	24
93	Self-oscillating pH-responsive cryogels as possible candidates of soft materials for generating mechanical energy. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 2981-2988	2.9	24
92	Kinetics of gelation in free radical crosslinking copolymerization. <i>Polymer</i> , 1994 , 35, 2613-2618	3.9	24
91	Cryogelation within cryogels: Silk fibroin scaffolds with single-, double- and triple-network structures. <i>Polymer</i> , 2017 , 128, 47-56	3.9	23
90	Preparation and characterization of single-hole macroporous organogel particles of high toughness and superfast responsivity. <i>European Polymer Journal</i> , 2009 , 45, 2033-2042	5.2	23
89	Heterogeneous styrene-divinylbenzene copolymers in collapsed and reexpanded states. <i>Journal of Applied Polymer Science</i> , 1986 , 31, 1785-1795	2.9	23
88	Supramolecular Polymer Networks and Gels. <i>Advances in Polymer Science</i> , 2015 ,	1.3	22
87	Macroporous styrene-divinylbenzene copolymers: Formation of stable porous structures during the copolymerization. <i>Polymer Bulletin</i> , 1998 , 41, 379-385	2.4	22
86	Molecular Weight Development during Thiol-Ene Photopolymerizations. <i>Macromolecules</i> , 2005 , 38, 4501-4511	3.5	22
85	Effect of initial monomer concentration on the equilibrium swelling and elasticity of hydrogels. <i>European Polymer Journal</i> , 2006 , 42, 955-960	5.2	22
84	Phase separation in the synthesis of styrene-divinylbenzene copolymers with di-2-ethylhexyl phthalate as diluent. <i>Journal of Applied Polymer Science</i> , 1985 , 30, 2065-2074	2.9	22
83	Surfactant-induced healing of tough hydrogels formed via hydrophobic interactions. <i>Colloid and Polymer Science</i> , 2014 , 292, 511-517	2.4	21
82	Effects of cyclization and pendant vinyl group reactivity on the swelling behavior of polyacrylamide gels. <i>Polymer Bulletin</i> , 1997 , 39, 233-239	2.4	20
81	Preparation of macroporous poly(acrylamide) hydrogels in DMSO/water mixture at subzero temperatures. <i>Polymer Bulletin</i> , 2008 , 60, 169-180	2.4	20
80	Real-time temperature and photon transmission measurements for monitoring phase separation during the formation of poly(N-isopropylacrylamide) gels. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 3589-3595	2.9	20

79	Non-Gaussian elasticity of swollen poly(N-isopropylacrylamide) gels at high charge densities. <i>European Polymer Journal</i> , 2003 , 39, 2209-2216	5.2	20
78	Determination of reaction activation energy during gelation in free radical crosslinking copolymerization using the steady-state fluorescence method. <i>Journal of Applied Polymer Science</i> , 1996 , 61, 2279-2284	2.9	20
77	Formation and structural characteristics of loosely crosslinked styrene-divinylbenzene networks. <i>Die Makromolekulare Chemie</i> , 1988 , 189, 2201-2217		20
76	Mechanically strong triple network hydrogels based on hyaluronan and poly(N,N-dimethylacrylamide). <i>Soft Matter</i> , 2015 , 11, 8517-24	3.6	19
75	Homogeneous Poly(acrylamide) Hydrogels Made by Large Size, Flexible Dimethacrylate Cross-Linkers. <i>Macromolecules</i> , 2008 , 41, 7759-7761	5.5	19
74	Swelling/shrinking hysteresis of poly(N-isopropylacrylamide) gels in sodium dodecylbenzenesulfonate solutions. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 1228-1232	2.9	19
73	Formation of macroporous styrene-divinylbenzene copolymer networks: Theory vs. experiments. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 2181-2195	2.9	19
72	The effect of preparation temperature on the swelling behavior of poly (N-isopropylacrylamide) gels. <i>Polymer Bulletin</i> , 2000 , 45, 175-182	2.4	18
71	Styrene-divinylbenzene copolymers, V. Inhomogeneity in the structure and the average degree of swelling. <i>Angewandte Makromolekulare Chemie</i> , 1987 , 153, 125-134		18
70	Collapse of acrylamide-based polyampholyte hydrogels in water. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 1375-1382	2.9	17
69	Swelling and elasticity of hydrogels based on poly(ethylene oxide) macroinimer. <i>Polymer International</i> , 2004 , 53, 237-242	3.3	16
68	Minimization of spatial inhomogeneity in polystyrene gels formed by free-radical mechanism. <i>European Polymer Journal</i> , 2004 , 40, 579-587	5.2	16
67	Critical properties for gelation in free-radical crosslinking copolymerization. <i>Macromolecular Theory and Simulations</i> , 1995 , 4, 967-981	1.5	16
66	Highly Stretchable and Rapid Self-Recoverable Cryogels Based on Butyl Rubber as Reusable Sorbent. <i>Gels</i> , 2019 , 5,	4.2	16
65	Swelling behavior of physical and chemical DNA hydrogels. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 3330-3337	2.9	15
64	Elasticity of poly(acrylamide) gel beads. <i>Polymer Bulletin</i> , 2003 , 50, 287-294	2.4	15
63	Effect of diluents on the porous structure of crosslinked poly(methyl methacrylate) beads. <i>Polymer Bulletin</i> , 1995 , 35, 511-516	2.4	15
62	One-Step Injectable and Bio-reducible Poly(α -Amino Ester) Hydrogels as Controlled Drug Delivery Platforms. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 1724-1734	4.3	14

61	Phase transition of polyacrylamide gels in PEG solutions. <i>Polymer Gels and Networks</i> , 1997 , 5, 167-184		14
60	Preparation of Homogeneous Hydrogels by Controlling the Crosslinker Reactivity and Availability. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2008 , 45, 769-775	2.2	14
59	Superfast Responsive Ionic Hydrogels: Effect of the Monomer Concentration. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006 , 43, 1215-1225	2.2	14
58	Heterogeneities during the formation of poly(sodium acrylate) hydrogels. <i>Polymer Bulletin</i> , 1999 , 43, 425-431	2.4	14
57	Self-Healing Poly(acrylic acid) Hydrogels: Effect of Surfactant. <i>Macromolecular Symposia</i> , 2015 , 358, 232-238	2.3	12
56	Swelling of polyacrylamide gels in aqueous solutions of ethylene glycol oligomers. <i>Polymer Gels and Networks</i> , 1997 , 5, 339-356		12
55	Temperature dependent swelling behavior of ionic poly(N-isopropylacrylamide) gels in PEG solutions. <i>Polymer Bulletin</i> , 2002 , 49, 181-188	2.4	12
54	Pendant vinyl group reactivity during the free-radical copolymerization of methyl methacrylate and ethylene glycol dimethacrylate. <i>Polymer Bulletin</i> , 1994 , 33, 665-672	2.4	12
53	Gel formation in free-radical crosslinking copolymerization. <i>Journal of Applied Polymer Science</i> , 1995 , 56, 477-483	2.9	12
52	Styrene-divinylbenzene copolymers. VII. Stability of the porous structures formed in toluene \square cyclohexanol mixtures. <i>Angewandte Makromolekulare Chemie</i> , 1988 , 157, 15-21		12
51	Highly stretchable and thermally healable polyampholyte hydrogels via hydrophobic modification. <i>Colloid and Polymer Science</i> , 2020 , 298, 273-284	2.4	11
50	Effects of cyclization and electrostatic interactions on the termination rate of macroradicals in free-radical crosslinking copolymerization. <i>Polymer Bulletin</i> , 1998 , 40, 491-498	2.4	11
49	Non-Gaussian elasticity of poly(2-acrylamido-2-methylpropane sulfonic acid) gels. <i>Polymer Bulletin</i> , 2004 , 52, 83	2.4	11
48	Effect of spatial gel inhomogeneity on the elastic modulus of strong polyelectrolyte hydrogels. <i>Polymer Bulletin</i> , 2005 , 54, 435-442	2.4	11
47	Size distribution of polymers during the photoinitiated free-radical copolymerization of methyl methacrylate and ethylene glycol dimethacrylate. <i>Polymer Bulletin</i> , 1996 , 37, 207-213	2.4	11
46	Nanocomposite DNA hydrogels with temperature sensitivity. <i>Polymer</i> , 2016 , 100, 169-178	3.9	10
45	Intramolecularly crosslinked macromolecules: Formation and structure, characterization and particle properties. <i>Polymer International</i> , 1993 , 30, 519-523	3.3	10
44	Macroporous methacrylated hyaluronic acid cryogels of high mechanical strength and flow-dependent viscoelasticity. <i>Carbohydrate Polymers</i> , 2020 , 229, 115458	10.3	10

43	Bisphosphonic Acid-Functionalized Cross-Linkers to Tailor Hydrogel Properties for Biomedical Applications. <i>ACS Omega</i> , 2018 , 3, 8638-8647	3.9	9
42	Swelling and Mechanical Properties of Solution-Crosslinked Poly(isobutylene) Gels. <i>Macromolecular Chemistry and Physics</i> , 2002 , 203, 663-672	2.6	9
41	Observation of critical opalescence in free radical crosslinking copolymerization of styrene and divinylbenzene by fluorescence method. <i>European Polymer Journal</i> , 1999 , 35, 2025-2029	5.2	9
40	Reversibility of strain stiffening in silk fibroin gels. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 24-31	7.9	8
39	Rheological behavior of polymer/clay nanocomposite hydrogels: Effect of nanoscale interactions. <i>Journal of Applied Polymer Science</i> , 2010 , 116, NA-NA	2.9	7
38	Heterogeneities in polyacrylamide gels immersed in acetone-water mixtures. <i>Polymer Bulletin</i> , 1998 , 41, 363-370	2.4	6
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