Mohammad Jalal Zohuriaan-Mehr

List of Publications by Year
in descending order

72 papers	3,363 citations	172207 29 h-index	149479 56 g-index
72 all docs	72 docs citations	72 times ranked	3598 citing authors

#	Article	IF	Citations
1	Superabsorbent hydrogel composites and nanocomposites: A review. Polymer Composites, 2011, 32, 277-289.	2.3	368
2	Synthesis of fast-swelling superabsorbent hydrogels: effect of crosslinker type and concentration on porosity and absorption rate. European Polymer Journal, 2003, 39, 1341-1348.	2.6	357
3	Rheological determination of the swollen gel strength of superabsorbent polymer hydrogels. Polymer Testing, 2006, 25, 470-474.	2.3	186
4	Diethylmethyl chitosan as an antimicrobial agent: Synthesis, characterization and antibacterial effects. European Polymer Journal, 2004, 40, 1355-1361.	2.6	179
5	Superabsorbent hydrogel composites. Polymers for Advanced Technologies, 2003, 14, 438-444.	1.6	163
6	Porous Superabsorbent Hydrogel Composites: Synthesis, Morphology and Swelling Rate. Macromolecular Materials and Engineering, 2004, 289, 653-661.	1.7	132
7	Novel approach to highly porous superabsorbent hydrogels: synergistic effect of porogens on porosity and swelling rate. Polymer International, 2003, 52, 1158-1164.	1.6	100
8	pH-Sensitive IPN Hydrogel Beads of Carrageenan-Alginate for Controlled Drug Delivery. Journal of Bioactive and Compatible Polymers, 2007, 22, 342-356.	0.8	96
9	Ionically cross-linked carrageenan-alginate hydrogel beads. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 47-59.	1.9	90
10	Solvent-, ion- and pH-specific swelling of poly(2-acrylamido-2-methylpropane sulfonic acid) superabsorbing gels. Journal of Polymer Research, 2010, 17, 203-212.	1.2	85
11	Preparation and characterization of linseed oil-filled ureaâ€“formaldehyde microcapsules and their effect on mechanical properties of an epoxy-based coating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 457, 16-26.	2.3	80
12	Tragacanth gum-graft-polyacrylonitrile: synthesis, characterization and hydrolysis. Journal of Polymer Research, 2008, 15, 173-180.	1.2	68
13	Novel sulfobetaine-sulfonic acid-contained superswelling hydrogels. Polymers for Advanced Technologies, 2005, 16, 659-666.	1.6	64
14	Gum arabicâ€“acrylic superabsorbing hydrogel hybrids: Studies on swelling rate and environmental responsiveness. Journal of Applied Polymer Science, 2006, 102, 5667-5674.	1.3	57
15	Chitosanâ€modified nanoclayâ€“poly(AMPS) nanocomposite hydrogels with improved gel strength. Polymer International, 2009, 58, 1252-1259.	1.6	56
16	Epoxy resin modification by reactive bio-based furan derivatives: Curing kinetics and mechanical properties. Thermochimica Acta, 2019, 673, 147-157.	1.2	46
17	Spectral and chemical determination of copolymer composition of poly (butyl acrylate-co-glycidyl) Tj ETQq1 1 0.784314 rgBT /Overlock	2.3	44
18	Undesirable effects of heating on hydrogels. Journal of Applied Polymer Science, 2008, 110, 3420-3430.	1.3	42

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19	Effects of structural variables on AUL and rheological behavior of SAP gels. Journal of Applied Polymer Science, 2009, 113, 3676-3686.	1.3	42
20	Modified carrageenan. 2. Hydrolyzed crosslinked Î²-carrageenan-g-PAAm as a novel smart superabsorbent hydrogel with low salt sensitivity. Journal of Biomaterials Science, Polymer Edition, 2004, 15, 1499-1511.	1.9	40
21	Thiolated chitosan coated poly hydroxyethyl methacrylate nanoparticles: Synthesis and characterization. Carbohydrate Polymers, 2008, 74, 59-67.	5.1	40
22	Optimized HPLC determination of residual monomer in hygienic SAP hydrogels. Polymer Testing, 2005, 24, 825-828.	2.3	39
23	Bio-based thermo-healable non-isocyanate polyurethane DA network in comparison with its epoxy counterpart. Journal of CO2 Utilization, 2017, 18, 294-302.	3.3	38
24	Modified CMC. 2. Novel carboxymethylcellulose-based poly(amidoxime) chelating resin with high metal sorption capacity. Reactive and Functional Polymers, 2004, 61, 23-31.	2.0	37
25	Tetra-functional epoxy-acrylate as crosslinker for UV curable resins: Synthesis, spectral, and thermo-mechanical studies. Progress in Organic Coatings, 2015, 89, 231-239.	1.9	37
26	Tannic acid derived non-isocyanate polyurethane networks: Synthesis, curing kinetics, antioxidizing activity and cell viability. Thermochimica Acta, 2018, 664, 64-72.	1.2	37
27	Nitrate removal from aqueous solutions by adsorption onto hydrogelâ€rice husk biochar composite. Water Environment Research, 2020, 92, 934-947.	1.3	35
28	Copolymers of glycidyl methacrylate and octadecyl acrylate: synthesis, characterization, swelling properties, and reactivity ratios. Designed Monomers and Polymers, 2013, 16, 79-88.	0.7	33
29	DSC studies on synthesis of superabsorbent hydrogels. Polymer, 2002, 43, 269-277.	1.8	32
30	Polymerization of sodium acrylate in inverse-suspension stabilized by sorbitan fatty esters. European Polymer Journal, 2003, 39, 1013-1018.	2.6	31
31	Toward poly(furfuryl alcohol) applications diversification: Novel selfâ€healing network and toughening epoxyâ€“novolac resin. Journal of Applied Polymer Science, 2018, 135, 45921.	1.3	31
32	Thermo-hydrolytic stability of swelling capacity of superabsorbing composite hydrogels based on AMPS and acrylamide. Journal of Polymer Research, 2010, 17, 151-159.	1.2	29
33	Non-isocyanate polyurethane thermoset based on a bio-resourced star-shaped epoxy macromonomer in comparison with a cyclocarbonate fossil-based epoxy resin: A preliminary study on thermo-mechanical and antibacterial properties. Journal of CO2 Utilization, 2019, 34, 558-567.	3.3	29
34	Selfâ€healing semiâ€IPN materials from epoxy resin by solventâ€free furanâ€“maleimide Dielsâ€“Alder polymerization. Journal of Applied Polymer Science, 2019, 136, 48015.	1.3	29
35	Poly(acrylic acidâ€“sodium styrene sulfonate) organogels: Preparation, characterization, and alcohol superabsorbency. Journal of Applied Polymer Science, 2011, 119, 2759-2769.	1.3	28
36	Fine tuning of SAP properties via epoxy-silane surface modification. Polymers for Advanced Technologies, 2017, 28, 1132-1147.	1.6	27

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37	Cyclocarbonated lignosulfonate as a bio-resourced reactive reinforcing agent for epoxy biocomposite: From natural waste to value-added bio-additive. Journal of CO2 Utilization, 2018, 24, 50-58.	3.3	27
38	Bio-based thermosetting epoxy foam: Tannic acid valorization toward dye-decontaminating and thermo-protecting applications. Journal of Hazardous Materials, 2018, 357, 30-39.	6.5	27
39	Glycerolâ€lactic acid starâ€shaped oligomers as efficient biobased surface modifiers for improving superabsorbent polymer hydrogels. Polymers for Advanced Technologies, 2019, 30, 390-399.	1.6	26
40	Nanocomposite superâ€swelling hydrogels with nanorod bentonite. Journal of Applied Polymer Science, 2011, 120, 3453-3459.	1.3	25
41	HMF synthesis in aqueous and organic media under ultrasonication, microwave irradiation and conventional heating. Korean Journal of Chemical Engineering, 2016, 33, 1964-1970.	1.2	25
42	Super alcohol-absorbent gels of sulfonic acid-contained poly(acrylic acid). Journal of Polymer Research, 2011, 18, 449-458.	1.2	24
43	An efficient fully bioâ€based reactive diluent for epoxy thermosets: 2â€[(Oxiranâ€2â€ylmethoxy) methyl] furan versus a petroleumâ€based counterpart. Journal of Applied Polymer Science, 2017, 134, .	1.3	23
44	Hydroxymethyl furfural-modified ureaâ€“formaldehyde resin: synthesis and properties. European Journal of Wood and Wood Products, 2017, 75, 71-80.	1.3	22
45	Kinetics of curing and thermo-degradation, antioxidizing activity, and cell viability of a tannic acid based epoxy resin: From natural waste to value-added biomaterial. Thermochimica Acta, 2017, 655, 21-33.	1.2	22
46	Biobased Dielsâ€Alder Engineered Network from Furfuryl Alcohol and Epoxy Resin: Preparation and Mechanoâ€Physical Characteristics. ChemistrySelect, 2018, 3, 40-46.	0.7	22
47	Superabsorbent polymers achieved by surface cross linking of poly(sodium acrylate) using microwave method. Iranian Polymer Journal (English Edition), 2019, 28, 539-548.	1.3	21
48	Extraordinary swelling behavior of poly(AMPS) organogel in solvent/DMSO binary mixed media. Journal of Applied Polymer Science, 2010, 117, 1127-1136.	1.3	18
49	Antipolyelectrolyte superabsorbing nanocomposites: Synthesis and properties. Journal of Applied Polymer Science, 2009, 114, 3542-3547.	1.3	17
50	â€œClickâ€•on SAP: Superabsorbent polymer surface modification via CuAAC reaction toward antibacterial activity and improved swollen gel strength. Applied Surface Science, 2019, 487, 1131-1144.	3.1	17
51	Minimization of residual monomer content of superabsorbent hydrogels via alteration of initiating system. Journal of Applied Polymer Science, 2011, 120, 2716-2723.	1.3	16
52	Alcohophilic gels: Polymeric organogels composing carboxylic and sulfonic acid groups. Journal of Applied Polymer Science, 2011, 120, 3350-3356.	1.3	16
53	Simple and efficient approach for recycling of fine acrylic-based superabsorbent waste. Polymer Bulletin, 2016, 73, 1119-1133.	1.7	16
54	Synthesis and Properties of Highly Swelling PAAm/Chitosan Semiâ€IPN Hydrogels. Macromolecular Symposia, 2008, 274, 171-176.	0.4	15

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55	Epoxy matrix toughness improvement via reactive bio-resin alloying. High Performance Polymers, 2017, 29, 772-784.	0.8	15
56	Residual monomer in superabsorbent polymers: Effects of the initiating system. Journal of Applied Polymer Science, 2009, 114, 2533-2540.	1.3	14
57	Bio-resourced furan resin as a sustainable alternative to petroleum-based phenolic resin for making GFR polymer composites. Iranian Polymer Journal (English Edition), 2020, 29, 287-299.	1.3	14
58	Bio-based thermoset alloys from epoxy acrylate, sesame oil- and castor oil-derived resins: Renewable alternatives to vinyl ester and unsaturated polyester resins. Polymers From Renewable Resources, 2019, 10, 27-44.	0.8	13
59	Rapid preparation of epoxy acrylate-clay nanocomposite: Simultaneous acrylation/nanoclay dispersion under ultrasonication. Progress in Organic Coatings, 2017, 108, 44-50.	1.9	12
60	Carrageenan-g-Poly(sodium Acrylate)/Kaolin Superabsorbent Hydrogel Composites: Synthesis, Characterisation and Swelling Behaviour. Polymers and Polymer Composites, 2007, 15, 43-51.	1.0	11
61	Linseed oilâ€based reactive diluents preparation to improve tetraâ€functional epoxy resin properties. Polymers for Advanced Technologies, 2019, 30, 2361-2369.	1.6	11
62	Cure kinetics of modified lignosulfonate/epoxy blends. Thermochimica Acta, 2019, 675, 18-28.	1.2	11
63	Transamidation: A feasible approach of surface modification to improve absorbency under load of agricultural superabsorbent materials. Journal of Materials Research, 2018, 33, 2327-2335.	1.2	10
64	Epoxidized and Cyclocarbonated Star-Shaped Macromolecules as Bio-Based Internal and External Crosslinkers for Superabsorbent Polymer Hydrogels. Journal of Polymers and the Environment, 2020, 28, 1684-1695.	2.4	9
65	Glycidyl Methacrylate Copolymers Modified with CO₂. Soft Materials, 2013, 11, 430-439.	0.8	6
66	Improvement of the mechanical properties of carbon black-filled ethylene propylene diene monomer using a metallic acrylate salt as filler. Journal of Composite Materials, 2014, 48, 471-481.	1.2	6
67	Effect of long-chain monoacrylate on the residual monomer content, swelling and thermomechanical properties of SAP hydrogels. Journal of Polymer Research, 2011, 18, 1863-1870.	1.2	5
68	Investigation of viscoelastic and thermal properties of cyclic carbonate bearing copolymers. Polymer Science - Series B, 2013, 55, 327-335.	0.3	5
69	Making vinyl ester resin greener: Succinic acidâ€“glycerolâ€derived reactive diluent as an alternative to styrene. Journal of Applied Polymer Science, 2020, 137, 49144.	1.3	5
70	Poly(furfuryl alcohol) bioresin-modified LY5210 epoxy thermosets. Journal of Polymer Research, 2019, 26, 1.	1.2	4
71	Self-healing Dielsâ€“Alder engineered thermosets. , 2020, , 209-233.		4
72	Preparation of poly (urea-formaldehyde) microcapsules for use in capsular adhesive. Journal of Polymer Research, 2019, 26, 1.	1.2	2