Kourosh Kabiri

List of Publications by Year
in descending order

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95 papers	4,102 citations	159585 30 h-index	123424 61 g-index
95 all docs	95 docs citations	95 times ranked	4168 citing authors

#	Article	IF	Citations
1	Corrosion performance of epoxy coatings containing silane treated ZrO2 nanoparticles on mild steel in 3.5% NaCl solution. Corrosion Science, 2011, 53, 89-98.	6.6	379
2	Superabsorbent hydrogel composites and nanocomposites: A review. Polymer Composites, 2011, 32, 277-289.	4.6	368
3	Synthesis of fast-swelling superabsorbent hydrogels: effect of crosslinker type and concentration on porosity and absorption rate. European Polymer Journal, 2003, 39, 1341-1348.	5.4	357
4	Advances in non-hygienic applications of superabsorbent hydrogel materials. Journal of Materials Science, 2010, 45, 5711-5735.	3.7	314
5	Rheological determination of the swollen gel strength of superabsorbent polymer hydrogels. Polymer Testing, 2006, 25, 470-474.	4.8	186
6	Superabsorbent hydrogel composites. Polymers for Advanced Technologies, 2003, 14, 438-444.	3.2	163
7	Porous Superabsorbent Hydrogel Composites: Synthesis, Morphology and Swelling Rate. Macromolecular Materials and Engineering, 2004, 289, 653-661.	3.6	132
8	Novel approach to highly porous superabsorbent hydrogels: synergistic effect of porogens on porosity and swelling rate. Polymer International, 2003, 52, 1158-1164.	3.1	100
9	pH-Sensitive IPN Hydrogel Beads of Carrageenan-Alginate for Controlled Drug Delivery. Journal of Bioactive and Compatible Polymers, 2007, 22, 342-356.	2.1	96
10	Ionically cross-linked carrageenan-alginate hydrogel beads. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 47-59.	3.5	90
11	Solvent-, ion- and pH-specific swelling of poly(2-acrylamido-2-methylpropane sulfonic acid) superabsorbing gels. Journal of Polymer Research, 2010, 17, 203-212.	2.4	85
12	Novel nanocomposite proton exchange membranes based on NafionÂ® and AMPS-modified montmorillonite for fuel cell applications. Journal of Membrane Science, 2010, 365, 286-293.	8.2	70
13	Tragacanth gum-graft-polyacrylonitrile: synthesis, characterization and hydrolysis. Journal of Polymer Research, 2008, 15, 173-180.	2.4	68
14	NafionÂ®/bio-functionalized montmorillonite nanohybrids as novel polyelectrolyte membranes for direct methanol fuel cells. Journal of Power Sources, 2009, 190, 318-321.	7.8	67
15	Novel high-performance nanohybrid polyelectrolyte membranes based on bio-functionalized montmorillonite for fuel cell applications. Chemical Communications, 2010, 46, 6500.	4.1	65
16	Novel sulfobetaine-sulfonic acid-contained superswelling hydrogels. Polymers for Advanced Technologies, 2005, 16, 659-666.	3.2	64
17	Gum arabicâ€“acrylic superabsorbing hydrogel hybrids: Studies on swelling rate and environmental responsiveness. Journal of Applied Polymer Science, 2006, 102, 5667-5674.	2.6	57
18	Chitosanâ€modified nanoclayâ€“poly(AMPS) nanocomposite hydrogels with improved gel strength. Polymer International, 2009, 58, 1252-1259.	3.1	56

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19	New Superâ€Absorbing Hydrogel Hybrids from Gum Arabic and Acrylic Monomers. Journal of Macromolecular Science - Pure and Applied Chemistry, 2005, 42, 1655-1666.	2.2	53
20	Effect of various combinations of zirconia and organoclay nanoparticles on mechanical and thermal properties of an epoxy nanocomposite coating. Composites Part A: Applied Science and Manufacturing, 2012, 43, 2095-2106.	7.6	53
21	Spectral and chemical determination of copolymer composition of poly (butyl acrylate-co-glycidyl) Tj ETQq1 1 0.784314 rgBT /Overlock	4.8	44
22	Undesirable effects of heating on hydrogels. Journal of Applied Polymer Science, 2008, 110, 3420-3430.	2.6	42
23	Effects of structural variables on AUL and rheological behavior of SAP gels. Journal of Applied Polymer Science, 2009, 113, 3676-3686.	2.6	42
24	Optimized HPLC determination of residual monomer in hygienic SAP hydrogels. Polymer Testing, 2005, 24, 825-828.	4.8	39
25	Synthesis of bioâ€based internal and external crossâ€linkers based on tannic acid for preparation of antibacterial superabsorbents. Polymers for Advanced Technologies, 2019, 30, 2894-2905.	3.2	37
26	Synthesis of poly (2-acrylamido-2-methyl propane sulfonic acid) with high water absorbency and absorption under load (AUL) as concrete grade superabsorbent and its performance. Construction and Building Materials, 2019, 206, 540-551.	7.2	35
27	Cationic highly alcohol-swellable gels: synthesis and characterization. Journal of Polymer Research, 2013, 20, 1.	2.4	34
28	Copolymers of glycidyl methacrylate and octadecyl acrylate: synthesis, characterization, swelling properties, and reactivity ratios. Designed Monomers and Polymers, 2013, 16, 79-88.	1.6	33
29	Practical Improvement of SAP Hydrogel Properties via Facile Tunable Cross-linking of the Particles Surface. Polymer-Plastics Technology and Engineering, 2016, 55, 278-290.	1.9	33
30	Effective parameters in surface cross-linking of acrylic-based water absorbent polymer particles using bisphenol A diethylene glycidyl ether and cycloaliphatic diepoxide. Iranian Polymer Journal (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.4	32
31	Toward poly(furfuryl alcohol) applications diversification: Novel selfâ€healing network and toughening epoxyâ€“novolac resin. Journal of Applied Polymer Science, 2018, 135, 45921.	2.6	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.	2.4	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.	6.8	29
34	Poly(acrylic acidâ€“sodium styrene sulfonate) organogels: Preparation, characterization, and alcohol superabsorbency. Journal of Applied Polymer Science, 2011, 119, 2759-2769.	2.6	28
35	Fine tuning of SAP properties via epoxy-silane surface modification. Polymers for Advanced Technologies, 2017, 28, 1132-1147.	3.2	27
36	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.	6.8	27

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37	Glycerolâ€lactic acid starâ€shaped oligomers as efficient biobased surface modifiers for improving superabsorbent polymer hydrogels. Polymers for Advanced Technologies, 2019, 30, 390-399.	3.2	26
38	Nanocomposite superâ€swelling hydrogels with nanorod bentonite. Journal of Applied Polymer Science, 2011, 120, 3453-3459.	2.6	25
39	Super alcohol-absorbent gels of sulfonic acid-contained poly(acrylic acid). Journal of Polymer Research, 2011, 18, 449-458.	2.4	24
40	Effect of functional monomer GMA on the physicalâ€“mechanical properties of coatings from poly(BAâ€“MMA) latexes. Journal of Materials Science, 2011, 46, 2771-2777.	3.7	22
41	Hydroxymethyl furfural-modified ureaâ€“formaldehyde resin: synthesis and properties. European Journal of Wood and Wood Products, 2017, 75, 71-80.	2.9	22
42	Chitosan modified MMTâ€poly(AMPS) nanocomposite hydrogel: Heating effect on swelling and rheological behavior. Journal of Applied Polymer Science, 2010, 116, 2548-2556.	2.6	21
43	In situ forming interpenetrating hydrogels of hyaluronic acid hybridized with iron oxide nanoparticles. Biomaterials Science, 2015, 3, 1466-1474.	5.4	21
44	A novel method for toughening epoxy resin through CO2 fixation reaction. Journal of CO2 Utilization, 2016, 16, 225-235.	6.8	21
45	Superabsorbent polymers achieved by surface cross linking of poly(sodium acrylate) using microwave method. Iranian Polymer Journal (English Edition), 2019, 28, 539-548.	2.4	21
46	HTCC-Modified Nanoclay for Tissue Engineering Applications: A Synergistic Cell Growth and Antibacterial Efficiency. BioMed Research International, 2013, 2013, 1-7.	1.9	20
47	An investigation into novel multifunctional cross-linkers effect on microgel prepared by precipitation polymerization. Reactive and Functional Polymers, 2013, 73, 524-530.	4.1	19
48	Swelling and mechanical behavior of nanoclay reinforced hydrogel: single network vs. full interpenetrating polymer network. Polymer Bulletin, 2015, 72, 1663-1681.	3.3	19
49	Extraordinary swelling behavior of poly(AMPS) organogel in solvent/DMSO binary mixed media. Journal of Applied Polymer Science, 2010, 117, 1127-1136.	2.6	18
50	Superabsorbent polymer composites: does clay always improve properties?. Journal of Materials Science, 2011, 46, 6718-6725.	3.7	18
51	Novel crosslinking method for preparation of acrylic thickener microgels through inverse emulsion polymerization. Iranian Polymer Journal (English Edition), 2015, 24, 1049-1056.	2.4	18
52	Antipolyelectrolyte superabsorbing nanocomposites: Synthesis and properties. Journal of Applied Polymer Science, 2009, 114, 3542-3547.	2.6	17
53	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.	6.1	17
54	Minimization of residual monomer content of superabsorbent hydrogels via alteration of initiating system. Journal of Applied Polymer Science, 2011, 120, 2716-2723.	2.6	16

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55	Alcohophilic gels: Polymeric organogels composing carboxylic and sulfonic acid groups. Journal of Applied Polymer Science, 2011, 120, 3350-3356.	2.6	16
56	Simple and efficient approach for recycling of fine acrylic-based superabsorbent waste. Polymer Bulletin, 2016, 73, 1119-1133.	3.3	16
57	Hybrid hydrogel based on pre-gelatinized starch modified with glycidyl-crosslinked microgel. Iranian Polymer Journal (English Edition), 2018, 27, 183-192.	2.4	15
58	Residual monomer in superabsorbent polymers: Effects of the initiating system. Journal of Applied Polymer Science, 2009, 114, 2533-2540.	2.6	14
59	Synthesis and characterization of alcogels based on ethylene glycol methyl ether methacrylate-vinyl phosphonic acid copolymers. Journal of Polymer Research, 2012, 19, 1.	2.4	14
60	A green strategy to endow superabsorbents with stretchability and self-healability. Chemical Engineering Journal, 2019, 370, 274-286.	12.7	14
61	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.	2.4	14
62	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.	1.3	13
63	Novel Environmentally Friendly Superabsorbent Hydrogel Hybrids from Synthesized Star-Shaped Bio-based Monomers and Acrylic Acid. Journal of Polymers and the Environment, 2019, 27, 1988-2000.	5.0	13
64	High gel-strength hybrid hydrogels based on modified starch through surface cross-linking technique. Polymer Bulletin, 2019, 76, 4047-4068.	3.3	13
65	Radical copolymerization of acrylic acid and OEGMA475: Monomer reactivity ratios and structural parameters of the copolymer. Macromolecular Research, 2014, 22, 1330-1336.	2.4	12
66	The synthesis and incorporation of a star-shaped bio-based modifier in the acrylic acid based superabsorbent: a strategy to enhance the absorbency under load. Polymer-Plastics Technology and Materials, 2019, 58, 1678-1690.	1.3	12
67	Aqueous free-radical polymerization of PEGMEMA macromer: kinetic studies via an on-line 1H NMR technique. Iranian Polymer Journal (English Edition), 2012, 21, 683-688.	2.4	11
68	Overentrant swelling behaviour of poly(potassium, 3-sulfopropyl acrylate-acrylic acid) gels. Journal of Polymer Research, 2012, 19, 1.	2.4	11
69	Structure, swelling and mechanical behavior of a cationic full-IPN hydrogel reinforced with modified nanoclay. Iranian Polymer Journal (English Edition), 2015, 24, 379-388.	2.4	11
70	Engineered Green Adhesives Based on Demands: Star-Shaped Glycerolâ€“Lactic Acid Oligomers in Anaerobic Adhesives. ACS Sustainable Chemistry and Engineering, 2019, 7, 16247-16256.	6.7	11
71	Linseed oilâ€based reactive diluents preparation to improve tetraâ€functional epoxy resin properties. Polymers for Advanced Technologies, 2019, 30, 2361-2369.	3.2	11
72	Cure kinetics of modified lignosulfonate/epoxy blends. Thermochimica Acta, 2019, 675, 18-28.	2.7	11

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73	Preparation of itaconic acid bio-based cross-linkers for hydrogels. Journal of Macromolecular Science - Pure and Applied Chemistry, 2021, 58, 165-174.	2.2	11
74	Converting water absorbent polymer to alcohol absorbent polymer. Polymers for Advanced Technologies, 2013, 24, 28-33.	3.2	10
75	Transamidation: A feasible approach of surface modification to improve absorbency under load of agricultural superabsorbent materials. Journal of Materials Research, 2018, 33, 2327-2335.	2.6	10
76	Rheological Properties of Microgel Prepared with Long-Chain Crosslinkers by a Precipitation Polymerization Method. Journal of Macromolecular Science - Physics, 2012, 51, 880-896.	1.0	9
77	Induced superabsorbency in polyester fiber. Iranian Polymer Journal (English Edition), 2016, 25, 635-646.	2.4	9
78	Converting date seed biomass into highly absorbing hydrogel. Iranian Polymer Journal (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	2.4	9
79	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.	5.0	9
80	Synthesis and Characterization of Phosphonic-Acrylic Organogels. International Journal of Polymeric Materials and Polymeric Biomaterials, 2014, 63, 430-437.	3.4	8
81	Preparation and Characterization of Alcogels Based on (Poly Ethylene Glycol Methyl Ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.9	7
82	Improvement in Mechanical Performance of Anionic Hydrogels Using Fullâ€Interpenetrating Polymer Network Reinforced with Graphene Oxide Nanosheets. Advances in Polymer Technology, 2016, 35, 386-395.	1.7	7
83	Surface cross-linked SAPs with improved swollen gel strength using diol compounds. Journal of Macromolecular Science - Pure and Applied Chemistry, 2020, 57, 62-71.	2.2	7
84	Glycidyl Methacrylate Copolymers Modified with CO₂. Soft Materials, 2013, 11, 430-439.	1.7	6
85	Semibatch emulsion copolymerization of butyl acrylate and glycidyl methacrylate: Effect of operating variables. Journal of Applied Polymer Science, 2010, 117, 2771-2780.	2.6	5
86	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.	2.4	5
87	Investigation of viscoelastic and thermal properties of cyclic carbonate bearing copolymers. Polymer Science - Series B, 2013, 55, 327-335.	0.8	5
88	Investigation of the mechanical and thermal properties of reactive AAEM-co-MMA adhesive. Polymer Bulletin, 2020, 77, 5767-5782.	3.3	5
89	Making vinyl ester resin greener: Succinic acidâ€“glycerolâ€derived reactive diluent as an alternative to styrene. Journal of Applied Polymer Science, 2020, 137, 49144.	2.6	5
90	Spectral and chemical monitoring of cyclo-addition reaction of CO2 with poly(MMA-co-GMA) copolymers. Chinese Journal of Polymer Science (English Edition), 2012, 30, 727-734.	3.8	4

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91	An acid-free water-born quaternized chitosan/montmorillonite loaded into an innovative ultra-fine bead-free water-born nanocomposite nanofibrous scaffold; in vitro and in vivo approaches. Biomedical Materials (Bristol), 2017, 12, 045014.	3.3	4
92	Preparation of antibacterial polyesterâ€“cotton absorbents; the effects of star-shaped functional oligomers. Polymer Bulletin, 2021, 78, 4959-4975.	3.3	2
93	Quick and green toward conductive thermallyâ€stable biobased <scp>starâ€shaped</scp> oligomers. Polymers for Advanced Technologies, 0, , .	3.2	2
94	Microwave-Assisted Modification of Nonwoven Fabric: Inducing Absorbency and Antibacterial Properties. Fibers and Polymers, 2020, 21, 1857-1867.	2.1	1
95	Organosilane compounds for tunable recycling of waste superabsorbent polymer fine particles. Polymer Bulletin, 0, , 1.	3.3	0