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Alkaline Hydrolysis of Polyacrylamide

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#	Paper	IF	Citations
55	Integrated preconcentration SDS-PAGE of proteins in microchips using photopatterned cross-linked polyacrylamide gels. <i>Analytical Chemistry</i> , 2006 , 78, 4976-84	7.8	148
54	Viscoelastic Properties of an Organically Cross-linked Gel at High Temperature and Pressure. 2006 ,		11
53	A rheological investigation of a high temperature organic gel used for water shut-off treatments. <i>Journal of Petroleum Science and Engineering</i> , 2007 , 59, 73-83	4.4	114
52	Thermal decomposition and hydrolysis of polyacrylamide-co-tert-butyl acrylate. <i>European Polymer Journal</i> , 2008 , 44, 1225-1237	5.2	17
51	Gelation Kinetics and Performance Evaluation of an Organically Crosslinked Gel at High Temperature and Pressure. <i>SPE Journal</i> , 2008 , 13, 337-345	3.1	74
50	A New Method for Fast Screening of Long Term Thermal Stability of Water-Soluble Polymers For Reservoir Conformance Control. 2009 ,		5
49	A Study of Polyacrylamide-Based Gels Crosslinked With Polyethyleneimine. <i>SPE Journal</i> , 2009 , 14, 245-251	5.1	53
48	A composite polyelectrolytic matrix for controlled oral drug delivery. <i>AAPS PharmSciTech</i> , 2011 , 12, 227-38	3.9	24
47	Regenerability of antibacterial activity of interpenetrating polymeric N-halamine and poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 2011 , 120, 611-622	2.9	31
46	Rheological Study for Surfactant-Polymer and Novel Alkali-Surfactant-Polymer Solutions. 2012 ,		7
45	Electrostatic protein immobilization using charged polyacrylamide gels and cationic detergent microfluidic Western blotting. <i>Analytical Chemistry</i> , 2012 , 84, 2533-40	7.8	28
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43	Effect of charge density on water sorption and elasticity of stimuli-responsive poly(acrylamide-co-acrylic acid) and poly(N,N-dimethylacrylamide-co-acrylic acid) hydrogels: Comparison of experiment with theory. <i>Journal of Materials Research</i> , 2013 , 28, 3234-3244	2.5	7
42	The use of environmental scanning electron microscopy for imaging the microstructure of gels for profile control and water shutoff treatments. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	29
41	Impact of salts on polyacrylamide hydrolysis and gelation: New insights. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	43
40	Solution properties of poly(acrylamide-co-3,5,5-trimethylhexane methacrylate) and its polyelectrolyte derivative. <i>Colloid and Polymer Science</i> , 2014 , 292, 2123-2135	2.4	3
39	Gelation kinetics of PAM/PEI system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 1409-1415	4.1	24

38	Experimental study and application of gels formed by nonionic polyacrylamide and phenolic resin for in-depth profile control. <i>Journal of Petroleum Science and Engineering</i> , 2015 , 135, 552-560	4.4	57
37	Review on Polymer Flooding: Rheology, Adsorption, Stability, and Field Applications of Various Polymer Systems. <i>Polymer Reviews</i> , 2015 , 55, 491-530	14	195
36	Nanohybrid based on antibiotic encapsulated layered double hydroxide as a drug delivery system. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 175, 1412-28	3.2	13
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34	A new method to evaluate elasticity of polymers based on elasticity-recovery experiment. <i>Journal of Petroleum Science and Engineering</i> , 2016 , 147, 388-394	4.4	1
33	Preparation of hydrogel impregnated antimicrobial polyurethane foam for absorption of radionuclide contaminated blood and biological fluids. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	2
32	Stability and effectiveness of linear polyacrylamide capillary coating to suppress EOF in acidic media in the presence of surfactants, ionic liquids and organic modifiers. <i>Talanta</i> , 2016 , 150, 546-52	6.2	5
31	Highly efficient macroporous adsorbents for toxic metal ions in water systems based on polyvinyl alcohol-formaldehyde sponges. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2537-2549	13	42
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23	The retardation of polyacrylamide by ammonium chloride in high-salinity and high-temperature conditions: molecular analysis. <i>Polymer Bulletin</i> , 2020 , 77, 5469-5487	2.4	1
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18	Acid hydrolysis of kraft lignin-acrylamide polymer to improve its flocculation affinity. <i>Separation and Purification Technology</i> , 2021 , 258, 117964	8.3	3
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16	Nonionic UCST-LCST Diblock Copolymers with Tunable Thermoresponsiveness Synthesized via PhotoRAFT Polymerization. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000648	4.8	8
15	Hydrolyzed Hydrogels with Super Stretchability, High Strength, and Fast Self-Recovery for Flexible Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22774-22784	9.5	11
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9	A Novel Branched Polymer Gel System with Delayed Gelation Property for Conformance Control. <i>SPE Journal</i> , 2021 , 1-11	3.1	3
8	Design of a dual pH and temperature responsive hydrogel based on esterified cellulose nanocrystals for potential drug release.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118925	10.3	8
7	2-D porous flow field reveals different EOR mechanisms between the biopolymer and chemical polymer. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 210, 110084	4.4	1
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