

Long Zhao

List of Publications by Year in Descending Order

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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.

83
papers

1,708
citations

20
h-index

39
g-index

93
ext. papers

2,099
ext. citations

5.8
avg. IF

4.99
L-index

#	Paper	IF	Citations
83	Radiation grafting of 1-vinyl-3-benzylimidazolium chloride onto silanized silica with different pore structures for the removal of ReO ₄ ⁻ as an analogue for TcO ₄ ⁻ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2022 , 331, 673	1.5	0
82	Facile fabrication of tannic acid functionalized microcrystalline cellulose for selective recovery of Ga(III) and In(III) from potential leaching solution. <i>Separation and Purification Technology</i> , 2022 , 286, 120442	8.3	2
81	Recovery and separation of Mo(VI) and Re(VII) from Mo-Re bearing solution by gallic acid-modified cellulose microspheres. <i>Separation and Purification Technology</i> , 2022 , 281, 119879	8.3	3
80	Heterogeneous irradiation system: enhanced degradation of methylene blue by electron beam irradiation combined with graphite carbon nitride/carbon nanodots.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
79	Aminomethylpyridine isomers functionalized cellulose microspheres for TcO/ReO uptake: Structure-properties relationship and their application in different aquatic systems.. <i>Journal of Hazardous Materials</i> , 2022 , 433, 128728	12.8	0
78	Single and competitive adsorption between Indigo Carmine and Methyl orange dyes on quaternized kapok fiber adsorbent prepared by radiation technique. <i>Separation and Purification Technology</i> , 2022 , 292, 121103	8.3	2
77	Facile Fabrication of Quaternary Ammonium Salt Modified Cotton Linter by Radiation Grafting and its Effective Removal of Methyl Orange: Batch and Dynamic Flow Mode Studies. <i>Fibers and Polymers</i> , 2022 , 23, 925-934	2	0
76	Phenolic acids modified cellulose microspheres for selective capture of Bi(III): Batch, column and mechanism investigation. <i>Separation and Purification Technology</i> , 2022 , 121290	8.3	
75	Selective recovery of rhenium from the simulating leaching solutions of uranium ore by amino guanidine functionalized microcrystalline cellulose microsphere. <i>Journal of Molecular Liquids</i> , 2022 , 360, 119399	6	0
74	Radiation synthesis of polyhedral oligomeric silsesquioxanes (POSS) gel polymers. <i>Radiation Physics and Chemistry</i> , 2022 , 198, 110251	2.5	1
73	Realizing Near-Unity Quantum Efficiency of Zero-Dimensional Antimony Halides through Metal Halide Structural Modulation. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	3
72	A comparative study of immobilizing ammonium molybdophosphate onto cellulose microsphere by radiation post-grafting and hybrid grafting for cesium removal. <i>Environmental Pollution</i> , 2021 , 273, 116432	9.2	8
71	Aminotriazole isomers modified cellulose microspheres for selective adsorption of U(VI): Performance and mechanism investigation. <i>Carbohydrate Polymers</i> , 2021 , 257, 117666	10.3	9
70	Preparation of high electrochemical activity Pd/RGO composites on the microemulsion interface through radiation technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 616, 126335	5.1	1
69	Efficient separation and recovery of Re(VII) from Re/U bearing acidic solutions using aminotriazole modified cellulose microsphere adsorbents. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 52225-52235	5.1	3
68	Radiation Syntheses and Performance of Novel Hierarchically Macro-/Mesoporous Silica Adsorbents with Quaternary Phosphonium for the High Selective Removal of Perrhenate. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7379-7389	8.3	2
67	Radiation-induced surface modification of silanized silica with n-alkyl-imidazolium ionic liquids and their applications for the removal of ReO ₄ ⁻ as an analogue for TcO ₄ ⁻ . <i>Applied Surface Science</i> , 2021 , 551, 149406	6.7	10

66	Quaternary phosphonium modified cellulose microsphere adsorbent for Tc decontamination with ultra-high selectivity. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123354	12.8	7
65	Radiation synthesis of imidazolium-based ionic liquid modified silica adsorbents for ReO ₄ ⁻ adsorption. <i>New Journal of Chemistry</i> , 2021 , 45, 7659-7670	3.6	3
64	Ultrahigh Adsorption Capacity of Acrylic Acid-Grafted Xanthan Gum Hydrogels for Rhodamine B from Aqueous Solution. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 1264-1272	2.8	7
63	Ethylenediamine and Pentaethylene Hexamine Modified Bamboo Sawdust by Radiation Grafting and Their Adsorption Behavior for Phosphate. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7854	2.6	2
62	Recent progress in environmental applications of functional adsorbent prepared by radiation techniques: A review. <i>Journal of Hazardous Materials</i> , 2021 , 424, 126887	12.8	8
61	Ultrahigh and selective adsorption of Au(III) by rich sulfur and nitrogen-bearing cellulose microspheres and their applications in gold recovery from gold slag leaching solution. <i>Separation and Purification Technology</i> , 2021 , 274, 119016	8.3	8
60	Facile fabrication of polymeric quaternary ammonium salt hydrogel by radiation for dyes removal from aqueous solution. <i>Radiation Physics and Chemistry</i> , 2021 , 188, 109670	2.5	0
59	Highly photocatalytic electrospun Zr/Ag Co-doped titanium dioxide nanofibers for degradation of dye. <i>Journal of Colloid and Interface Science</i> , 2021 , 603, 594-603	9.3	4
58	Radiation synthesis of ionic liquid-functionalized silica-based adsorbents: a preliminary investigation on its application for removal of ReO as an analog for TcO. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 17752-17762	5.1	4
57	Selective Recovery of Ag(I) Using a Cellulose-Based Adsorbent in High Saline Solution. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 1919-1926	2.8	9
56	Performance and mechanism of selective adsorption of silver to L-cysteine functionalized cellulose microsphere. <i>Cellulose</i> , 2020 , 27, 3249-3261	5.5	10
55	One-step fabrication of photoluminescent SiC quantum dots through a radiation technique. <i>New Journal of Chemistry</i> , 2020 , 44, 13301-13307	3.6	2
54	Facile preparation of L-cysteine-modified cellulose microspheres as a low-cost adsorbent for selective and efficient adsorption of Au(III) from the aqueous solution. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 38334-38343	5.1	9
53	Efficient Adsorption Performance of Lithium Ion onto Cellulose Microspheres with Sulfonic Acid Groups. <i>Quantum Beam Science</i> , 2020 , 4, 6	1.6	9
52	Effect of radiation on interfacial properties and phase behavior of ionic liquid-based microemulsions. <i>Radiation Physics and Chemistry</i> , 2020 , 168, 108596	2.5	2
51	Recovery of rhenium(VII) from synthetic leaching solutions of uranium ore using ionic liquid modified cellulose microsphere adsorbents. <i>Hydrometallurgy</i> , 2020 , 197, 105457	4	5
50	Synthesis of 9,10-dihydro-9-oxa-10-phosphaphenanthrene-10-oxide derivative grafted polyethylene films for improving the flame retardant and anti-dripping properties. <i>Polymer Engineering and Science</i> , 2020 , 60, 2804-2813	2.3	1
49	Radiation grafting of dimethylaminoethyl methacrylate on cotton linter and subsequent quaternization as new eco-friendly adsorbent for phosphate removal. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 24558-24567	5.1	8

48	Amphoteric Ion Exchange Membranes Prepared by Preirradiation-Induced Emulsion Graft Copolymerization for Vanadium Redox Flow Battery. <i>Polymers</i> , 2019 , 11,	4.5	9
47	Fabrication of Cotton Linter-Based Adsorbents by Radiation Grafting Polymerization for Humic Acid Removal from Aqueous Solution. <i>Polymers</i> , 2019 , 11,	4.5	14
46	Facile Fabrication of N-Methyl-D-Glucamine Grafted HDPE Particle as Adsorbent for Boron Removal from Aqueous Solution. <i>Materials Science Forum</i> , 2019 , 953, 198-205	0.4	2
45	Facile Preparation of EVOH-Based Amphoteric Ion Exchange Membrane Using Radiation Grafting Technique: A Preliminary Investigation on Its Application for Vanadium Redox Flow Battery. <i>Polymers</i> , 2019 , 11,	4.5	9
44	Radiation synthesis of crown ether functionalized microcrystalline cellulose as bifunctional adsorbent: A preliminary investigation on its application for removal of ReO ₄ ⁻ as analogue for TcO ₄ ⁻ . <i>Radiation Physics and Chemistry</i> , 2019 , 159, 147-153	2.5	24
43	Radiation Synthesis of Pentaethylene Hexamine Functionalized Cotton Linter for Effective Removal of Phosphate: Batch and Dynamic Flow Mode Studies. <i>Materials</i> , 2019 , 12,	3.5	7
42	Surface modification of cellulose microsphere with imidazolium-based ionic liquid as adsorbent: effect of anion variation on adsorption ability towards Au(III). <i>Cellulose</i> , 2018 , 25, 2205-2216	5.5	22
41	Effect of modified Fe ₃ O ₄ nanoparticles on the preparation of PMMA/Fe ₃ O ₄ microspheres via suspension polymerization. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 108, 042097	0.3	3
40	Covalently bonded ionic liquid onto cellulose for fast adsorption and efficient separation of Cr(VI): Batch, column and mechanism investigation. <i>Carbohydrate Polymers</i> , 2018 , 189, 190-197	10.3	55
39	Extraction performance of Eu ³⁺ by using heterocyclic N-donor ligands with different structures in ionic liquids: an experimental and theoretical study. <i>New Journal of Chemistry</i> , 2018 , 42, 7206-7212	3.6	3
38	Synthesis and Supercapacitor Performance of Polyaniline/Nitrogen-Doped Ordered Mesoporous Carbon Composites. <i>Nanoscale Research Letters</i> , 2018 , 13, 163	5	21
37	Facile fabrication of sodium styrene sulfonate-grafted ethylene-vinyl alcohol copolymer as adsorbent for ammonium removal from aqueous solution. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 27235-27244	5.1	17
36	Radiolysis of alkyl substituted tridentate 2,6-bis(1,2,4-triazine-3-yl)pyridines: an experimental study with DFT validation. <i>New Journal of Chemistry</i> , 2018 , 42, 18395-18401	3.6	4
35	Th(IV) and U(VI) removal by TODGA in ionic liquids: extraction behavior and mechanism, and radiation effect. <i>Nuclear Science and Techniques/Hewuli</i> , 2017 , 28, 1	2.1	6
34	Improving thermal and flame-retardant properties of epoxy resins by a new imine linkage phosphorous-containing curing agent. <i>Polymer Engineering and Science</i> , 2016 , 56, 441-447	2.3	20
33	Radiation synthesis of spherical cellulose-based adsorbent for efficient adsorption and detoxification of Cr(VI). <i>Radiation Physics and Chemistry</i> , 2016 , 126, 68-74	2.5	35
32	Effect of radiation on Th ⁴⁺ extraction behaviour of TODGA/[C ₂ mim][NTf ₂]: identification and extractability study of radiolytic products. <i>RSC Advances</i> , 2016 , 6, 7626-7632	3.7	5
31	Recovery of Au(III) by radiation synthesized aminomethyl pyridine functionalized adsorbents based on cellulose. <i>Chemical Engineering Journal</i> , 2016 , 283, 504-513	14.7	100

30	Preparation of Magnetic Hybrid Microspheres with Well-Defined Yolk-Shell Structure. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-7	1.5	0
29	Solution extraction of several lanthanides from nitric acid with isohexyl-BTP in [Cnmim][NTf2] ionic liquid. <i>Journal of Rare Earths</i> , 2015 , 33, 1182-1188	3.7	8
28	Radiolysis of crown ether-ionic liquid systems: identification of radiolytic products and their effect on the removal of Sr(2+) from nitric acid. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3457-62	3.6	22
27	Radiolysis of ionic liquid irradiated with helium ion beam and the influence of radiolytic products on Dy3+ extraction. <i>Dalton Transactions</i> , 2014 , 43, 5580-5	4.3	14
26	Influence of radiation effect on extractability of an isobutyl-BTP/ionic liquid system: quantitative analysis and identification of radiolytic products. <i>RSC Advances</i> , 2014 , 4, 51330-51333	3.7	13
25	Effect of heat treatment on surface composition of hydrogen implanted C-SiC coatings. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 3300-3305	3.3	
24	Radiation synthesis and Cr(VI) removal of cellulose microsphere adsorbent. <i>Carbohydrate Polymers</i> , 2012 , 88, 931-938	10.3	54
23	Co-grafting of acrylamide and vinyl imidazole onto EB pre-irradiated silanized silica gel. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 1268-1274	2.5	19
22	Removal of hazardous metal ions from wastewater by radiation synthesized silica-graft-dimethylaminoethyl methacrylate adsorbent. <i>Chemical Engineering Journal</i> , 2011 , 170, 162-169	14.7	43
21	Radiation Functionalization and Applications of Chitosan and Its Derivatives 2010 , 415-445		
20	Hydrogels of dihydroxypropyl chitosan crosslinked with irradiation at paste-like condition. <i>Carbohydrate Polymers</i> , 2009 , 76, 314-319	10.3	17
19	Synthesis of pH-Sensitive and Biodegradable CM-Cellulose/Chitosan Polyampholytic Hydrogels with Electron Beam Irradiation. <i>Journal of Bioactive and Compatible Polymers</i> , 2008 , 23, 319-333	2	31
18	Pre-irradiation grafting of styrene and maleic anhydride onto PVDF membrane and subsequent sulfonation for application in vanadium redox batteries. <i>Journal of Power Sources</i> , 2008 , 177, 617-623	8.9	52
17	Properties of a poly(L-lactic acid)/poly(D-lactic acid) stereocomplex and the stereocomplex crosslinked with triallyl isocyanurate by irradiation. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2358-2365	2.9	17
16	Adsorption of heavy metal ions from aqueous solution onto chitosan entrapped CM-cellulose hydrogels synthesized by irradiation. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 1388-1395	2.9	96
15	Radiation effects on dihydroxypropyl-chitosan. <i>Polymer Degradation and Stability</i> , 2008 , 93, 1607-1610	4.7	6
14	Study on CM-chitosan/activated carbon hybrid gel films formed with EB irradiation. <i>Radiation Physics and Chemistry</i> , 2008 , 77, 622-629	2.5	9
13	Adsorption of humic acid from aqueous solution onto irradiation-crosslinked carboxymethylchitosan. <i>Bioresource Technology</i> , 2008 , 99, 1911-7	11	62

12	The radiation crosslinked films based on PLLA/PDLA stereocomplex after TAIC absorption in supercritical carbon dioxide. <i>Carbohydrate Polymers</i> , 2008 , 72, 673-681	10.3	37
11	Radiation-induced Crosslinking and Biodegradability of Poly(lactide) Stereocomplex. <i>Transactions of the Materials Research Society of Japan</i> , 2008 , 33, 443-446	0.2	1
10	Effect of activated carbon on the properties of carboxymethylcellulose/activated carbon hybrid hydrogels synthesized by γ radiation technique. <i>Carbohydrate Polymers</i> , 2007 , 70, 236-242	10.3	28
9	Synthesis of pH-sensitive PVP/CM-chitosan hydrogels with improved surface property by irradiation. <i>Carbohydrate Polymers</i> , 2006 , 64, 473-480	10.3	93
8	Preparation of crosslinked carboxymethylated chitin derivatives by irradiation and their sorption behavior for copper(II) ions. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 556-562	2.9	18
7	Study on antibacterial starch/chitosan blend film formed under the action of irradiation. <i>Carbohydrate Polymers</i> , 2004 , 57, 83-88	10.3	133
6	Laser photolysis of carboxymethylated chitin derivatives in aqueous solution. Part 1. Formation of hydrated electron and a long-lived radical. <i>Biomacromolecules</i> , 2004 , 5, 453-7	6.9	14
5	Laser photolysis of carboxymethylated chitin derivatives in aqueous solution. Part 2. Reaction of OH* and SO ₄ *- radicals with carboxymethylated chitin derivatives. <i>Biomacromolecules</i> , 2004 , 5, 458-62	6.9	10
4	Hydrogels of polysaccharide derivatives crosslinked with irradiation at paste-like condition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 208, 320-324	1.2	106
3	Radiation synthesis and characteristic of the hydrogels based on carboxymethylated chitin derivatives. <i>Carbohydrate Polymers</i> , 2003 , 51, 169-175	10.3	106
2	Synthesis of antibacterial PVA/CM-chitosan blend hydrogels with electron beam irradiation. <i>Carbohydrate Polymers</i> , 2003 , 53, 439-446	10.3	189
1	Fabrication of quaternized sisal fiber by electron beam radiation and its adsorption of indigo carmine from aqueous solution. <i>Cellulose</i> , 1	5.5	0