Sheng

List of Publications by Year
in descending order

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80 papers	2,040 citations	201674 27 h-index	254184 43 g-index
81 all docs	81 docs citations	81 times ranked	2264 citing authors

#	Article	IF	Citations
1	Automated method for concurrent determination of thorium (²³⁰Th, ²³²Th) and uranium (²³⁴U, ²³⁵U, ²³⁸U) isotopes in water matrices with ICP-MS/MS. Journal of Analytical Atomic Spectrometry, 2022, 37, 919-928.	3.0	7
2	A simple method for Ceâ€“Nd separation using nano-NaBiO3: Application in the isotopic analysis of U, Sr, Pb, Nd, and Hf in uranium ores. Talanta, 2022, 245, 123443.	5.5	1
3	Highly selective extraction of uranium from wastewater using amine-bridged diacetamide-functionalized silica. Journal of Hazardous Materials, 2022, 435, 129022.	12.4	15
4	Determination of trace rare earth elements in uranium ore samples by triple quadrupole inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2021, 36, 2144-2152.	3.0	6
5	Exploring the ability of triple quadrupole inductively coupled plasma mass spectrometry for the determination of Pu isotopes in environmental samples. Journal of Analytical Atomic Spectrometry, 2021, 36, 2330-2337.	3.0	13
6	Trace impurity analysis in uranium materials by rapid separation and ICP-MS/MS measurement with matrix matched external calibration. Microchemical Journal, 2021, 169, 106615.	4.5	7
7	The formation mechanism of cerium-bearing aerosols with the aid of chemical explosions in airtight scenarios. New Journal of Chemistry, 2021, 45, 20696-20712.	2.8	0
8	Novel polyazamacrocyclic receptor impregnated macroporous polymeric resins for highly efficient capture of palladium from nitric acid media. Separation and Purification Technology, 2020, 233, 115953.	7.9	19
9	Theoretical simulation for the chemico-physical properties of Î±-quartz and stishovite Si1-Ce O2 via first-principles. Physica B: Condensed Matter, 2020, 582, 411906.	2.7	0
10	Selective separation of thorium from rare earths and uranium in acidic solutions by phosphorodiamidate-functionalized silica. Chemical Engineering Journal, 2020, 392, 123717.	12.7	31
11	Density Function Theory Study on the Reaction Mechanism of Cerium with Oxygen for Ce-bearing Aerosol Particle Formation. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 501-505.	1.0	2
12	Density functional theory investigations on the coordination of Pa(v) with N,N-dialkylamide. New Journal of Chemistry, 2020, 44, 9477-9484.	2.8	1
13	Cerium separation with NaBiO₃ nanoflower material via an oxidation adsorption strategy. Journal of Materials Chemistry A, 2020, 8, 7907-7913.	10.3	4
14	Efficient capture of actinides from strong acidic solution by hafnium phosphonate frameworks with excellent acid resistance and radiolytic stability. Chemical Engineering Journal, 2019, 355, 159-169.	12.7	33
15	Ultra-trace determination of the ¹³⁵Cs/¹³⁷Cs isotopic ratio by thermal ionization mass spectrometry with application to Fukushima marine sediment samples. Journal of Analytical Atomic Spectrometry, 2019, 34, 301-309.	3.0	22
16	Control of pore chemistry in metal-organic frameworks for selective uranium extraction from seawater. Microporous and Mesoporous Materials, 2019, 288, 109567.	4.4	80
17	Polymer brushes on graphene oxide for efficient adsorption of heavy metal ions from water. Journal of Applied Polymer Science, 2019, 136, 48156.	2.6	74
18	Preparation of ZnO nanoparticle loaded amidoximated wool fibers as a promising antibiofouling adsorbent for uranium(<scp>vi</scp>) recovery. RSC Advances, 2019, 9, 18406-18414.	3.6	19

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19	A uranium capture strategy based on self-assembly in a hydroxyl-functionalized ionic liquid extraction system. Chemical Communications, 2019, 55, 6894-6897.	4.1	20
20	The preparation of organophosphorus ligand-modified SBA-15 for effective adsorption of Congo red and Reactive red 2. RSC Advances, 2019, 9, 13476-13485.	3.6	23
21	MOF-SMO hybrids as a H2S sensor with superior sensitivity and selectivity. Sensors and Actuators B: Chemical, 2019, 292, 32-39.	7.8	67
22	Density Functional Theory Investigations on the Mechanism of Formation of Pa(V) Ion in Hydrous Solutions. Molecules, 2019, 24, 1169.	3.8	1
23	More than ten percent ionization efficiency for Tc measurement by negative thermal ionization mass spectrometry. Journal of Analytical Atomic Spectrometry, 2019, 34, 2229-2235.	3.0	5
24	Functional polymer brushes for highly efficient extraction of uranium from seawater. Journal of Materials Science, 2019, 54, 3572-3585.	3.7	35
25	Nano-TiO₂ Imparts Amidoximated Wool Fibers with Good Antibacterial Activity and Adsorption Capacity for Uranium(VI) Recovery. Industrial & Engineering Chemistry Research, 2018, 57, 1826-1833.	3.7	73
26	Complexation of a macrocyclic ligand, 2,6-di (N-methyl)formamide-calix[4]pyridine, with Eu(III) and extraction of Eu(III) and Am(III). Radiochimica Acta, 2018, 106, 301-310.	1.2	0
27	The Hydrolytic Stability and Degradation Mechanism of a Hierarchically Porous Metal Alkylphosphonate Framework. Nanomaterials, 2018, 8, 166.	4.1	4
28	Highly Efficient Recovery of Uranium from Seawater Using an Electrochemical Approach. Industrial & Engineering Chemistry Research, 2018, 57, 8078-8084.	3.7	53
29	Simulation of irradiation uniformity for polyethylene and polypropylene in various high energy fields. Radiation Physics and Chemistry, 2018, 151, 47-52.	2.8	3
30	Graphene-synergized 2D covalent organic framework for adsorption: A mutual promotion strategy to achieve stabilization and functionalization simultaneously. Journal of Hazardous Materials, 2018, 358, 273-285.	12.4	121
31	Synthesis of Microporous Covalent Phosphazene-Based Frameworks for Selective Separation of Uranium in Highly Acidic Media Based on Size-Matching Effect. ACS Applied Materials & Interfaces, 2018, 10, 28936-28947.	8.0	84
32	Polyamidoxime functionalized with phosphate groups by plasma technique for effective U(VI) adsorption. Journal of Industrial and Engineering Chemistry, 2018, 67, 380-387.	5.8	27
33	Pdâ€Catalyzed Vinylation of Aryl Halides with Inexpensive Organosilicon Reagents Under Mild Conditions. Chemistry - A European Journal, 2018, 24, 10324-10328.	3.3	8
34	Metalâ€“organic framework derived nanoporous carbons with highly selective adsorption and separation of xenon. Journal of Materials Chemistry A, 2018, 6, 13696-13704.	10.3	49
35	In-situ deposited ZnO film-based sensor with controlled microstructure and exposed facet for high H2 sensitivity. Journal of Alloys and Compounds, 2017, 704, 117-123.	5.5	9
36	A Designed ZnO@ZIFâ€8 Coreâ€“Shell Nanorod Film as a Gas Sensor with Excellent Selectivity for H₂ over CO. Chemistry - A European Journal, 2017, 23, 7969-7975.	3.3	103

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37	Stereocontrolled C(sp3)â€“P bond formation with non-activated alkyl halides and tosylates. RSC Advances, 2017, 7, 24652-24656.	3.6	6
38	An initial demonstration of hierarchically porous niobium alkylphosphonates coordination polymers as potent radioanalytical separation materials. Journal of Chromatography A, 2017, 1504, 35-45.	3.7	10
39	Polypropylene Modified with Amidoxime/Carboxyl Groups in Separating Uranium(VI) from Thorium(IV) in Aqueous Solutions. ACS Sustainable Chemistry and Engineering, 2017, 5, 1924-1930.	6.7	75
40	Development and application of mass spectrometric techniques for ultra-trace determination of 236U in environmental samples-A review. Analytica Chimica Acta, 2017, 995, 1-20.	5.4	34
41	Phosphate-Functionalized Polyethylene with High Adsorption of Uranium(VI). ACS Omega, 2017, 2, 3267-3275.	3.5	46
42	Enhanced xenon adsorption and separation with an anionic indiumâ€“organic framework by ion exchange with Co²⁺. RSC Advances, 2017, 7, 55012-55019.	3.6	26
43	Complexation of U(VI) with picolinic acid in aqueous solution at variable temperatures: Potentiometric, spectrophotometric and calorimetric studies. Journal of Chemical Thermodynamics, 2017, 113, 350-357.	2.0	6
44	Chemical treatments on the cuticle layer enhancing the uranium(VI) uptake from aqueous solution by amidoximated wool fibers. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 1927-1937.	1.5	11
45	Aggregation-induced emission active tetraphenylethene-based sensor for uranyl ion detection. Journal of Hazardous Materials, 2016, 318, 363-370.	12.4	54
46	Capillary electrophoresis coupled with inâ€column fiberâ€optic laserâ€induced fluorescence detection for the rapid separation of neodymium. Electrophoresis, 2016, 37, 2657-2662.	2.4	1
47	Zero valent iron/poly(amidoxime) adsorbent for the separation and reduction of U(<scp>vi</scp>). RSC Advances, 2016, 6, 52076-52081.	3.6	24
48	Mass spectrometry for the determination of fission products 135Cs, 137Cs and 90Sr: A review of methodology and applications. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 119, 65-75.	2.9	35
49	Fluorogenic Thorium Sensors Based on 2,6â€Pyridinedicarboxylic Acidâ€Substituted Tetraphenylethenes with Aggregationâ€Induced Emission Characteristics. Chemistry - an Asian Journal, 2016, 11, 49-53.	3.3	32
50	Density functional theory investigations on the binding modes of amidoximes with uranyl ions. Dalton Transactions, 2016, 45, 3120-3129.	3.3	16
51	Immobilization of uranium by biomaterial stabilized FeS nanoparticles: Effects of stabilizer and enrichment mechanism. Journal of Hazardous Materials, 2016, 302, 1-9.	12.4	79
52	Recovery of uranium(VI) from aqueous solution by amidoxime functionalized wool fibers. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 1471-1479.	1.5	31
53	Carboxylate functionalized wool fibers for removal of Cu(II) and Pb(II) from aqueous solution. Desalination and Water Treatment, 2016, 57, 17367-17376.	1.0	8
54	Fluorescent recognition of uranyl ions by a phosphorylated cyclic peptide. Chemical Communications, 2015, 51, 11769-11772.	4.1	49

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55	Density functional theory study of the Eu(III) and Am(III) complexes with two 1,10-phenanthroline-type ligands. Polyhedron, 2015, 95, 86-90.	2.2	19
56	â€œOne-potâ€•synthesis of amidoxime via Pd-catalyzed cyanation and amidoximation. Organic and Biomolecular Chemistry, 2015, 13, 2541-2545.	2.8	17
57	Hot-corrosion behavior of Ti₃SiC₂in a eutectic mixture of LiClâ€“KCl salts in air. RSC Advances, 2015, 5, 21629-21633.	3.6	2
58	Complexation behavior of Eu(III), Tb(III), Tm(III), and Am(III) with three 1,10-phenanthroline-type ligands: insights from density functional theory. Journal of Molecular Modeling, 2015, 21, 185.	1.8	5
59	Embedded atom model for the liquid Uâ€“10Zr alloy based on density functional theory calculations. RSC Advances, 2015, 5, 61495-61501.	3.6	6
60	Facile Fabrication of Mn₂O₃ Nanoparticle-Assembled Hierarchical Hollow Spheres and Their Sensing for Hydrogen Peroxide. ACS Applied Materials & Interfaces, 2015, 7, 9526-9533.	8.0	88
61	A flexible zinc tetrazolate framework exhibiting breathing behaviour on xenon adsorption and selective adsorption of xenon over other noble gases. Journal of Materials Chemistry A, 2015, 3, 10747-10752.	10.3	80
62	Energetics of gaseous and volatile fission products in molten Uâ€“10Zr alloy: A density functional theory study. Journal of Nuclear Materials, 2015, 466, 583-587.	2.7	1
63	Enhanced electro-mechanical actuation strain in polyaniline nanorods/silicone rubber nanodielectric elastomer films. Applied Physics Letters, 2014, 104, 242903.	3.3	11
64	Promising density functional theory methods for predicting the structures of uranyl complexes. RSC Advances, 2014, 4, 50261-50270.	3.6	6
65	Investigating the performance of a Rh metal catalyst in hydrogenâ€“deuterium exchange reactions in methane for application in low-temperature membrane separators. Fusion Engineering and Design, 2014, 89, 2666-2671.	1.9	0
66	Efficient Synthesis of 1,5-Disubstituted Carbohydrazones Using K2CO3 As a Carbonyl Donor. Organic Letters, 2014, 16, 2398-2401.	4.6	7
67	Polyvinyl alcohol fibers with functional phosphonic acid group: synthesis and adsorption of uranyl (VI) ions in aqueous solutions. Journal of Radioanalytical and Nuclear Chemistry, 2013, 296, 1331-1340.	1.5	26
68	A base-mediated three-component coupling reaction for the synthesis of phosphorohydrazones. Tetrahedron, 2013, 69, 10068-10072.	1.9	4
69	Adsorption behavior of uranium on polyvinyl alcohol-g-amidoxime: Physicochemical properties, kinetic and thermodynamic aspects. Science China Chemistry, 2013, 56, 1495-1503.	8.2	37
70	Fluorescent BINOL-based sensor for thorium recognition and a density functional theory investigation. Journal of Hazardous Materials, 2013, 263, 638-642.	12.4	35
71	High performance of amidoxime/amine functionalized polypropylene for uranyl (VI) from aqueous solution. E-Polymers, 2013, 13, .	3.0	4
72	Density functional study of uranyl (VI) amidoxime complexes. Chinese Physics B, 2012, 21, 093102.	1.4	3

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73	Improvement of hydrogen isotope exchange reactions on Li4SiO4 ceramic pebble by catalytic metals. Chinese Chemical Letters, 2012, 23, 936-940.	9.0	2
74	Preparation and characterization of hydrophobic Ptâ€“Fe catalysts with enhanced catalytic activities for interface hydrogen isotope separation. Journal of Hazardous Materials, 2012, 209-210, 478-483.	12.4	26
75	Hydrophobic Pt catalysts with different carbon substrates for the interphase hydrogen isotope separation. Separation and Purification Technology, 2011, 77, 214-219.	7.9	27
76	Preparation and Catalytic Activity of Pt Based Hydrophobic Catalysts Adulterated with Fe Series Elements. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2011, 26, 91-96.	1.3	1
77	The roles of metals and their oxide species in hydrophobic Ptâ€“Ru catalysts for the interphase H/D isotope separation. International Journal of Hydrogen Energy, 2010, 35, 10118-10126.	7.1	21
78	Influence of Carrier on Catalytic Activity of Platinum Based Hydrophobic Catalysts. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2010, 25, 279-284.	1.3	0
79	Ptâ€“Ir binary hydrophobic catalysts: Effects of Ir content and particle size on catalytic performance for liquid phase catalytic exchange. International Journal of Hydrogen Energy, 2009, 34, 8723-8732.	7.1	49
80	Removal of hexavalent chromium ions from aqueous solution by amidoxime functionalized wool fibers. , 0, 58, 137-143.		1