

# 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

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times ranked

2264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-synergized 2D covalent organic framework for adsorption: A mutual promotion strategy to achieve stabilization and functionalization simultaneously. <i>Journal of Hazardous Materials</i> , 2018, 358, 273-285.	12.4	121
2	A Designed ZnO@ZIF-8 Core-Shell Nanorod Film as a Gas Sensor with Excellent Selectivity for H <sub>2</sub> over CO. <i>Chemistry - A European Journal</i> , 2017, 23, 7969-7975.	3.3	103
3	Facile Fabrication of Mn <sub>2</sub> O <sub>3</sub> Nanoparticle-Assembled Hierarchical Hollow Spheres and Their Sensing for Hydrogen Peroxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9526-9533.	8.0	88
4	Synthesis of Microporous Covalent Phosphazene-Based Frameworks for Selective Separation of Uranium in Highly Acidic Media Based on Size-Matching Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28936-28947.	8.0	84
5	A flexible zinc tetrazolate framework exhibiting breathing behaviour on xenon adsorption and selective adsorption of xenon over other noble gases. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10747-10752.	10.3	80
6	Control of pore chemistry in metal-organic frameworks for selective uranium extraction from seawater. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109567.	4.4	80
7	Immobilization of uranium by biomaterial stabilized FeS nanoparticles: Effects of stabilizer and enrichment mechanism. <i>Journal of Hazardous Materials</i> , 2016, 302, 1-9.	12.4	79
8	Polypropylene Modified with Amidoxime/Carboxyl Groups in Separating Uranium(VI) from Thorium(IV) in Aqueous Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1924-1930.	6.7	75
9	Polymer brushes on graphene oxide for efficient adsorption of heavy metal ions from water. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48156.	2.6	74
10	Nano-TiO <sub>2</sub> Imparts Amidoximated Wool Fibers with Good Antibacterial Activity and Adsorption Capacity for Uranium(VI) Recovery. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 1826-1833.	3.7	73
11	MOF-SMO hybrids as a H <sub>2</sub> S sensor with superior sensitivity and selectivity. <i>Sensors and Actuators B: Chemical</i> , 2019, 292, 32-39.	7.8	67
12	Aggregation-induced emission active tetraphenylethene-based sensor for uranyl ion detection. <i>Journal of Hazardous Materials</i> , 2016, 318, 363-370.	12.4	54
13	Highly Efficient Recovery of Uranium from Seawater Using an Electrochemical Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 8078-8084.	3.7	53
14	Pt-Ir binary hydrophobic catalysts: Effects of Ir content and particle size on catalytic performance for liquid phase catalytic exchange. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8723-8732.	7.1	49
15	Fluorescent recognition of uranyl ions by a phosphorylated cyclic peptide. <i>Chemical Communications</i> , 2015, 51, 11769-11772.	4.1	49
16	Metal-organic framework derived nanoporous carbons with highly selective adsorption and separation of xenon. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13696-13704.	10.3	49
17	Phosphate-Functionalized Polyethylene with High Adsorption of Uranium(VI). <i>ACS Omega</i> , 2017, 2, 3267-3275.	3.5	46
18	Adsorption behavior of uranium on polyvinyl alcohol-g-amidoxime: Physicochemical properties, kinetic and thermodynamic aspects. <i>Science China Chemistry</i> , 2013, 56, 1495-1503.	8.2	37

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19	Fluorescent BINOL-based sensor for thorium recognition and a density functional theory investigation. <i>Journal of Hazardous Materials</i> , 2013, 263, 638-642.	12.4	35
20	Mass spectrometry for the determination of fission products <sup>135</sup> Cs, <sup>137</sup> Cs and <sup>90</sup> Sr: A review of methodology and applications. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 119, 65-75.	2.9	35
21	Functional polymer brushes for highly efficient extraction of uranium from seawater. <i>Journal of Materials Science</i> , 2019, 54, 3572-3585.	3.7	35
22	Development and application of mass spectrometric techniques for ultra-trace determination of <sup>236</sup> U in environmental samples-A review. <i>Analytica Chimica Acta</i> , 2017, 995, 1-20.	5.4	34
23	Efficient capture of actinides from strong acidic solution by hafnium phosphonate frameworks with excellent acid resistance and radiolytic stability. <i>Chemical Engineering Journal</i> , 2019, 355, 159-169.	12.7	33
24	Fluorogenic Thorium Sensors Based on 2,6-Pyridinedicarboxylic Acid-Substituted Tetraphenylethenes with Aggregation-Induced Emission Characteristics. <i>Chemistry - an Asian Journal</i> , 2016, 11, 49-53.	3.3	32
25	Recovery of uranium(VI) from aqueous solution by amidoxime functionalized wool fibers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 307, 1471-1479.	1.5	31
26	Selective separation of thorium from rare earths and uranium in acidic solutions by phosphorodiamidate-functionalized silica. <i>Chemical Engineering Journal</i> , 2020, 392, 123717.	12.7	31
27	Hydrophobic Pt catalysts with different carbon substrates for the interphase hydrogen isotope separation. <i>Separation and Purification Technology</i> , 2011, 77, 214-219.	7.9	27
28	Polyamidoxime functionalized with phosphate groups by plasma technique for effective U(VI) adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 380-387.	5.8	27
29	Preparation and characterization of hydrophobic Pt-Fe catalysts with enhanced catalytic activities for interface hydrogen isotope separation. <i>Journal of Hazardous Materials</i> , 2012, 209-210, 478-483.	12.4	26
30	Polyvinyl alcohol fibers with functional phosphonic acid group: synthesis and adsorption of uranyl (VI) ions in aqueous solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 296, 1331-1340.	1.5	26
31	Enhanced xenon adsorption and separation with an anionic indium-organic framework by ion exchange with Co <sup>2+</sup> . <i>RSC Advances</i> , 2017, 7, 55012-55019.	3.6	26
32	Zero valent iron/poly(amidoxime) adsorbent for the separation and reduction of U(VI). <i>RSC Advances</i> , 2016, 6, 52076-52081.	3.6	24
33	The preparation of organophosphorus ligand-modified SBA-15 for effective adsorption of Congo red and Reactive red 2. <i>RSC Advances</i> , 2019, 9, 13476-13485.	3.6	23
34	Ultra-trace determination of the <sup>135</sup> Cs/ <sup>137</sup> Cs isotopic ratio by thermal ionization mass spectrometry with application to Fukushima marine sediment samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 301-309.	3.0	22
35	The roles of metals and their oxide species in hydrophobic Pt-Ru catalysts for the interphase H/D isotope separation. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10118-10126.	7.1	21
36	A uranium capture strategy based on self-assembly in a hydroxyl-functionalized ionic liquid extraction system. <i>Chemical Communications</i> , 2019, 55, 6894-6897.	4.1	20

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37	Density functional theory study of the Eu(III) and Am(III) complexes with two 1,10-phenanthroline-type ligands. <i>Polyhedron</i> , 2015, 95, 86-90.	2.2	19
38	Preparation of ZnO nanoparticle loaded amidoximated wool fibers as a promising antibiofouling adsorbent for uranium( $^{238}\text{U}$ ) recovery. <i>RSC Advances</i> , 2019, 9, 18406-18414.	3.6	19
39	Novel polyazamacrocyclic receptor impregnated macroporous polymeric resins for highly efficient capture of palladium from nitric acid media. <i>Separation and Purification Technology</i> , 2020, 233, 115953.	7.9	19
40	One-pot synthesis of amidoxime via Pd-catalyzed cyanation and amidoximation. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2541-2545.	2.8	17
41	Density functional theory investigations on the binding modes of amidoximes with uranyl ions. <i>Dalton Transactions</i> , 2016, 45, 3120-3129.	3.3	16
42	Highly selective extraction of uranium from wastewater using amine-bridged diacetamide-functionalized silica. <i>Journal of Hazardous Materials</i> , 2022, 435, 129022.	12.4	15
43	Exploring the ability of triple quadrupole inductively coupled plasma mass spectrometry for the determination of Pu isotopes in environmental samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2330-2337.	3.0	13
44	Enhanced electro-mechanical actuation strain in polyaniline nanorods/silicone rubber nanodielectric elastomer films. <i>Applied Physics Letters</i> , 2014, 104, 242903.	3.3	11
45	Chemical treatments on the cuticle layer enhancing the uranium(VI) uptake from aqueous solution by amidoximated wool fibers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 1927-1937.	1.5	11
46	An initial demonstration of hierarchically porous niobium alkylphosphonates coordination polymers as potent radioanalytical separation materials. <i>Journal of Chromatography A</i> , 2017, 1504, 35-45.	3.7	10
47	In-situ deposited ZnO film-based sensor with controlled microstructure and exposed facet for high H <sub>2</sub> sensitivity. <i>Journal of Alloys and Compounds</i> , 2017, 704, 117-123.	5.5	9
48	Carboxylate functionalized wool fibers for removal of Cu(II) and Pb(II) from aqueous solution. <i>Desalination and Water Treatment</i> , 2016, 57, 17367-17376.	1.0	8
49	Pd-Catalyzed Vinylation of Aryl Halides with Inexpensive Organosilicon Reagents Under Mild Conditions. <i>Chemistry - A European Journal</i> , 2018, 24, 10324-10328.	3.3	8
50	Efficient Synthesis of 1,5-Disubstituted Carbohydrazones Using K <sub>2</sub> CO <sub>3</sub> As a Carbonyl Donor. <i>Organic Letters</i> , 2014, 16, 2398-2401.	4.6	7
51	Trace impurity analysis in uranium materials by rapid separation and ICP-MS/MS measurement with matrix matched external calibration. <i>Microchemical Journal</i> , 2021, 169, 106615.	4.5	7
52	Automated method for concurrent determination of thorium ( $^{230}\text{Th}$ , $^{232}\text{Th}$ ) and uranium ( $^{234}\text{U}$ , $^{235}\text{U}$ , $^{238}\text{U}$ ) isotopes in water matrices with ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 919-928.	3.0	7
53	Promising density functional theory methods for predicting the structures of uranyl complexes. <i>RSC Advances</i> , 2014, 4, 50261-50270.	3.6	6
54	Embedded atom model for the liquid U $\text{-}10\text{Zr}$ alloy based on density functional theory calculations. <i>RSC Advances</i> , 2015, 5, 61495-61501.	3.6	6

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55	Stereocontrolled C(sp <sup>3</sup> )–P bond formation with non-activated alkyl halides and tosylates. RSC Advances, 2017, 7, 24652-24656.	3.6	6
56	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
57	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
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	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
60	A base-mediated three-component coupling reaction for the synthesis of phosphorohydrazones. Tetrahedron, 2013, 69, 10068-10072.	1.9	4
61	High performance of amidoxime/amine functionalized polypropylene for uranyl (VI) from aqueous solution. E-Polymers, 2013, 13, .	3.0	4
62	The Hydrolytic Stability and Degradation Mechanism of a Hierarchically Porous Metal Alkylphosphonate Framework. Nanomaterials, 2018, 8, 166.	4.1	4
63	Cerium separation with NaBiO <sub>3</sub> nanoflower material via an oxidation adsorption strategy. Journal of Materials Chemistry A, 2020, 8, 7907-7913.	10.3	4
64	Density functional study of uranyl (VI) amidoxime complexes. Chinese Physics B, 2012, 21, 093102.	1.4	3
65	Simulation of irradiation uniformity for polyethylene and polypropylene in various high energy fields. Radiation Physics and Chemistry, 2018, 151, 47-52.	2.8	3
66	Improvement of hydrogen isotope exchange reactions on Li <sub>4</sub> SiO <sub>4</sub> ceramic pebble by catalytic metals. Chinese Chemical Letters, 2012, 23, 936-940.	9.0	2
67	Hot-corrosion behavior of Ti <sub>3</sub> Si <sub>2</sub> in a eutectic mixture of LiCl–KCl salts in air. RSC Advances, 2015, 5, 21629-21633.	3.6	2
68	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
69	Energetics of gaseous and volatile fission products in molten U– <sup>102</sup> Zr alloy: A density functional theory study. Journal of Nuclear Materials, 2015, 466, 583-587.	2.7	1
70	Capillary electrophoresis coupled with in-column fiber-optic laser-induced fluorescence detection for the rapid separation of neodymium. Electrophoresis, 2016, 37, 2657-2662.	2.4	1
71	Density Functional Theory Investigations on the Mechanism of Formation of Pa(V) Ion in Hydrated Solutions. Molecules, 2019, 24, 1169.	3.8	1
72	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

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73	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
74	Removal of hexavalent chromium ions from aqueous solution by amidoxime functionalized wool fibers. , 0, 58, 137-143.		1
75	A simple method for Ce <sup>IV</sup> -Nd separation using nano-NaBiO <sub>3</sub> : Application in the isotopic analysis of U, Sr, Pb, Nd, and Hf in uranium ores. Talanta, 2022, 245, 123443.	5.5	1
76	Investigating the performance of a Rh metal catalyst in hydrogen <sup>18</sup> O-deuterium exchange reactions in methane for application in low-temperature membrane separators. Fusion Engineering and Design, 2014, 89, 2666-2671.	1.9	0
77	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
78	Theoretical simulation for the chemico-physical properties of $\alpha$ -quartz and stishovite Si1-Ce O2 via first-principles. Physica B: Condensed Matter, 2020, 582, 411906.	2.7	0
79	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
80	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