

Shenxu Bao

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.

86

papers

1,729

citations

21

h-index

38

g-index

93

ext. papers

2,248

ext. citations

4.5

avg, IF

5.3

L-index

#	Paper	IF	Citations
86	Fabrication of green one-part geopolymer from silica-rich vanadium tailing via thermal activation and modification. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 177-184	3.1	1
85	ZIF-8-derived porous carbon: application in capacitive deionization for vanadium (V) adsorption. <i>Journal of Applied Electrochemistry</i> , 2022 , 52, 639	2.6	0
84	A novel and sustainable technique to precipitate vanadium from vanadium-rich solutions via efficient ultrasound irradiation. <i>Journal of Cleaner Production</i> , 2022 , 339, 130755	10.3	5
83	Mechanism and kinetics study on ultrasound assisted leaching of gallium and zinc from corundum flue dust. <i>Minerals Engineering</i> , 2022 , 183, 107624	4.9	3
82	Adsorption properties of V(IV) on resin-activated carbon composite electrodes in capacitive deionization. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021 , 28, 1777-1787	3.1	
81	Role of particle fineness and reactive silicon-aluminum ratio in mechanical properties and microstructure of geopolymers. <i>Construction and Building Materials</i> , 2021 , 313, 125483	6.7	2
80	Influence of Microbubble on Fine Wolframite Flotation. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 1079	2.4	0
79	A hybrid machine learning approach in modeling the impact of chromium concentration in blood and gonads on the concentration of the reproductive hormones of <i>Urva auropunctatus</i> . <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 174, 109055	4.6	2
78	Optimization of preparation conditions of composite electrodes for selective adsorption of vanadium in CDI by response surface methodology. <i>Chemical Engineering Research and Design</i> , 2021 , 168, 37-45	5.5	8
77	Effect of Two Thermal Activation Methods on Shale Residue Based Geopolymer. <i>Materials Letters</i> , 2021 , 130005	3.3	0
76	Selective adsorption mechanism of resin-activated carbon composite electrode for capacitive deionization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 610, 125935	5.1	3
75	A combined calcination method for activating mixed shale residue and red mud for preparation of geopolymer. <i>Construction and Building Materials</i> , 2021 , 297, 123789	6.7	5
74	Synergetic strengthening mechanism of ultrasound combined with calcium fluoride towards vanadium extraction from low-grade vanadium-bearing shale. <i>International Journal of Mining Science and Technology</i> , 2021 ,	7.1	23
73	Separation and adsorption of V(V) from vanadium-containing solution by TOMAC-impregnated resins. <i>Chemical Engineering Research and Design</i> , 2021 , 174, 405-413	5.5	4
72	Evaluating toxicity impacts of environmental exposed chromium on small Indian mongoose (<i>Urva auropunctatus</i>) hematological, biochemical and histopathological functioning. <i>Chemosphere</i> , 2020 , 259, 127485	8.4	1
71	A high-efficiency and sustainable leaching process of vanadium from shale in sulfuric acid systems enhanced by ultrasound. <i>Separation and Purification Technology</i> , 2020 , 240, 116624	8.3	27
70	Characteristics and Vanadium Adsorption Performance of Resin/Carbon Composite Electrodes in Capacitive Deionization. <i>Chemical Engineering and Technology</i> , 2020 , 43, 1588-1595	2	5

69	Preparation of one-part geopolymeric precursors using vanadium tailing by thermal activation. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 779-783	3.8	18
68	Column Separation of Vanadium(V) from Complex Sulfuric Solution Using Trialkylamine-Impregnated Resins. <i>Jom</i> , 2020 , 72, 953-961	2.1	8
67	Selective adsorption of vanadium in asymmetric capacitive deionization with resin/activated carbon composite electrodes. <i>Chemical Engineering Research and Design</i> , 2020 , 163, 107-114	5.5	1
66	Removal of cadmium and lead from aqueous solutions by thermal activated electrolytic manganese residues. <i>Science of the Total Environment</i> , 2020 , 748, 141490	10.2	8
65	An analytical model of the growth of invisible bubbles on solid surfaces in a supersaturated solution. <i>Chemical Engineering Science</i> , 2020 , 215, 114968	4.4	8
64	Utilization of carbonate-based tailings to remove Pb(II) from wastewater through mechanical activation. <i>Science of the Total Environment</i> , 2020 , 698, 134270	10.2	9
63	Cleaning method of vanadium precipitation from stripped vanadium solution using oxalic acid. <i>Powder Technology</i> , 2019 , 355, 667-674	5.2	6
62	A Novel Process for the Synthesis of NaV ₂ O ₅ Mesocrystals from Alkaline-Stripped Vanadium Solution via the Hydrothermal Hydrogen Reduction Method. <i>Minerals (Basel, Switzerland)</i> , 2019 , 9, 271	2.4	
61	Selective vanadium extraction from vanadium bearing ferro-phosphorus via roasting and pressure hydrogen reduction. <i>Separation and Purification Technology</i> , 2019 , 220, 293-299	8.3	17
60	Eco-friendly synthesis of VO with stripped pentavalent vanadium solution extracted from vanadium-bearing shale by hydrothermal process in high conversion rate. <i>Royal Society Open Science</i> , 2019 , 6, 181116	3.3	7
59	Recycling vanadium-bearing shale leaching residue for the production of one-part geopolymers. <i>Materials Research Express</i> , 2019 , 6, 105203	1.7	2
58	Removal of Cu(II) from wastewater by using mechanochemically activated carbonate-based tailings through chemical precipitation. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 35198-35207	5.1	6
57	An environmentally friendly hydrothermal method of vanadium precipitation with the application of oxalic acid. <i>Hydrometallurgy</i> , 2019 , 185, 125-132	4	11
56	The characteristics of resin/carbon composite electrode and application in selective adsorption of vanadium(IV) by capacitive deionization. <i>Chemical Engineering Research and Design</i> , 2018 , 132, 178-186	5.5	17
55	Scandium Loading on Chelating and Solvent Impregnated Resin from Sulfate Solution. <i>Solvent Extraction and Ion Exchange</i> , 2018 , 36, 100-113	2.5	22
54	Adsorption characteristics of vanadium on different resin-active carbon composite electrodes in capacitive deionization. <i>Chemosphere</i> , 2018 , 212, 34-40	8.4	15
53	Synthesis of Di-(2-ethylhexyl) Phosphoric Acid (D2EHPA)-Tributyl Phosphate (TBP) Impregnated Resin and Application in Adsorption of Vanadium(IV). <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 206	2.4	17
52	Vanadium Transitions during Roasting-Leaching Process of Vanadium Extraction from Stone Coal. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 63	2.4	8

51	Precipitation of vanadium using ammonium salt in alkaline and acidic media and the effect of sodium and phosphorus. <i>Hydrometallurgy</i> , 2018 , 180, 113-120	4	21
50	The Effects of Sodium Ions, Phosphorus, and Silicon on the Eco-Friendly Process of Vanadium Precipitation by Hydrothermal Hydrogen Reduction. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 294	2.4	5
49	A High-Efficiency Approach for the Synthesis of N235-Impregnated Resins and the Application in Enhanced Adsorption and Separation of Vanadium(V). <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 358	2.4	7
48	Ultrasound-assisted synthesis of N235-impregnated resins for vanadium (V) adsorption. <i>Royal Society Open Science</i> , 2018 , 5, 171746	3.3	14
47	Recovery of V(V) from complex vanadium solution using capacitive deionization (CDI) with resin/carbon composite electrode. <i>Chemosphere</i> , 2018 , 208, 14-20	8.4	24
46	Synthesis of coated solvent impregnated resins by PVA cross-linked with vapor-phase glutaraldehyde for adsorption of vanadium (IV). <i>Reactive and Functional Polymers</i> , 2018 , 128, 58-66	4.6	18
45	Characteristics of Nitric Acid-Modified Carbon Nanotubes and Desalination Performance in Capacitive Deionization. <i>Chemical Engineering and Technology</i> , 2018 , 41, 1793-1799	2	11
44	In-situ investigation on mineral phase transition during roasting of vanadium-bearing stone coal. <i>Advanced Powder Technology</i> , 2017 , 28, 1103-1107	4.6	11
43	Vanadium recovery from stone coal through roasting and flotation. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 197-203	3.3	20
42	Effect of support properties on preparation process and adsorption performances of solvent impregnated resins. <i>Reactive and Functional Polymers</i> , 2017 , 113, 50-57	4.6	17
41	Preparation of geopolymers from vanadium tailings by mechanical activation. <i>Construction and Building Materials</i> , 2017 , 145, 236-242	6.7	70
40	Separation of vanadium(V) using N235 by three-phase system in concentrated HCl media. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 717-722	0.9	2
39	High-efficient and selective extraction of vanadium (V) with N235-P507 synergistic extraction system. <i>Chemical Engineering Research and Design</i> , 2017 , 120, 284-290	5.5	39
38	Decomposition characteristics of compound additive and effect of roasting atmosphere on vanadium extraction from stone coal. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2017 , 12, 374-380	1.3	3
37	A Novel Eco-Friendly Vanadium Precipitation Method by Hydrothermal Hydrogen Reduction Technology. <i>Minerals (Basel, Switzerland)</i> , 2017 , 7, 182	2.4	11
36	Effect of the Structure of Alkyl Salicylaldoxime on Extraction of Copper(II). <i>Minerals (Basel, Switzerland)</i> , 2017 , 7, 61	2.4	7
35	Vanadium Leaching from Vanadium-Bearing Carbonaceous Shale by a Multi-stage Counter-Current Process. <i>Indian Chemical Engineer</i> , 2016 , 58, 299-309	1	1
34	Separation and recovery of V(IV) from sulfuric acid solutions containing Fe(III) and Al(III) using bis(2-ethylhexyl)phosphoric acid impregnated resin. <i>Chemical Engineering Research and Design</i> , 2016 , 111, 109-116	5.5	19

33	Separation and recovery of sulfuric acid from acidic vanadium leaching solution of stone coal via solvent extraction. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 1399-1405	6.8	16
32	Separation and recovery of vanadium from a sulfuric-acid leaching solution of stone coal by solvent extraction using trialkylamine. <i>Separation and Purification Technology</i> , 2016 , 164, 49-55	8.3	78
31	Behaviors of impurity elements Ca and Fe in vanadium-bearing stone coal during roasting and its control measure. <i>International Journal of Mineral Processing</i> , 2016 , 148, 100-104		9
30	Utilization of Iron Ore Tailings as Raw Material for Portland Cement Clinker Production. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-6	1.5	18
29	The Influence of Roasting Temperature on the Flotation Properties of Muscovite. <i>Minerals (Basel, Switzerland)</i> , 2016 , 6, 53	2.4	10
28	Preparation of High Purity V ₂ O ₅ from a Typical Low-Grade Refractory Stone Coal Using a Pyro-Hydrometallurgical Process. <i>Minerals (Basel, Switzerland)</i> , 2016 , 6, 69	2.4	15
27	The Effect of Ca ²⁺ and Mg ²⁺ on the Dispersion and Flocculation Behaviors of Muscovite Particles. <i>Minerals (Basel, Switzerland)</i> , 2016 , 6, 93	2.4	13
26	Recovery and Separation of Metal Ions from Aqueous Solutions by Solvent-Impregnated Resins. <i>Chemical Engineering and Technology</i> , 2016 , 39, 1377-1392	2	30
25	Effect of calcium on the vanadium extraction from high calcium type stone coal. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015 , 30, 320-324	1	4
24	Desalination by capacitive deionization process using nitric acid-modified activated carbon as the electrodes. <i>Desalination</i> , 2014 , 340, 67-72	10.3	63
23	Effect of Stone Coal Chemical Composition on Sintering Behavior during Roasting. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 157-163	3.9	16
22	Collision and attachment behavior between fine cassiterite particles and H ₂ bubbles. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 520-527	3.3	14
21	Loose-stratification model in separation process for vanadium pre-concentration from stone coal. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 528-535	3.3	4
20	Investigation of condition-induced bubble size and distribution in electroflotation using a high-speed camera. <i>International Journal of Mining Science and Technology</i> , 2014 , 24, 7-12	7.1	13
19	A methodology for assessing cleaner production in the vanadium extraction industry. <i>Journal of Cleaner Production</i> , 2014 , 84, 598-605	10.3	45
18	Separation factor of shaking table for vanadium pre-concentration from stone coal. <i>Separation and Purification Technology</i> , 2013 , 115, 92-99	8.3	16
17	Calculation of mineral phase and liquid phase formation temperature during roasting of vanadium-bearing stone coal using FactSage software. <i>International Journal of Mineral Processing</i> , 2013 , 124, 150-153		15
16	Pre-concentration of vanadium from stone coal by gravity separation. <i>International Journal of Mineral Processing</i> , 2013 , 121, 1-5		36

15	DESALINATION BY CAPACITIVE DEIONIZATION WITH CARBON-BASED MATERIALS AS ELECTRODE: A REVIEW. <i>Surface Review and Letters</i> , 2013 , 20, 1330003	1.1	34
14	Preparation of high strength autoclaved bricks from hematite tailings. <i>Construction and Building Materials</i> , 2012 , 28, 450-455	6.7	57
13	Vanadium emission during roasting of vanadium-bearing stone coal in chlorine. <i>Minerals Engineering</i> , 2012 , 30, 95-98	4.9	36
12	Effects of the mineral phase and valence of vanadium on vanadium extraction from stone coal. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012 , 19, 893-898	3.1	32
11	Determination of Vanadium Valency in Roasted Stone Coal by Separate Dissolve-Potentiometric Titration Method. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1380, 1		2
10	Roast Experiment Research of Vanadium Stone Coal. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1380, 1		
9	Hydrothermal Fe ³⁺ /Mn oxide deposits from the Central and South Valu Fa Ridge, Lau Basin. <i>Applied Geochemistry</i> , 2011 , 26, 1192-1204	3.5	15
8	Geopolymerisation of a silica-rich tailing. <i>Minerals Engineering</i> , 2011 , 24, 1710-1712	4.9	22
7	Preparation of eco-friendly construction bricks from hematite tailings. <i>Construction and Building Materials</i> , 2011 , 25, 2107-2111	6.7	149
6	The technology of extracting vanadium from stone coal in China: History, current status and future prospects. <i>Hydrometallurgy</i> , 2011 , 109, 116-124	4	292
5	Evolution and morphometric characterization of fouling on membranes during the desalination of high CaSO ₄ supersaturated water by electrodialysis. <i>Desalination</i> , 2010 , 256, 94-100	10.3	6
4	Distribution, source and flux of methane in the western Pearl River Estuary and northern South China Sea. <i>Marine Chemistry</i> , 2009 , 117, 21-31	3.7	35
3	Metal sources of black smoker chimneys, Endeavour Segment, Juan de Fuca Ridge: Pb isotope constraints. <i>Applied Geochemistry</i> , 2009 , 24, 1971-1977	3.5	12
2	Geochemistry of REE and yttrium in hydrothermal fluids from the Endeavour segment, Juan de Fuca Ridge. <i>Geochemical Journal</i> , 2008 , 42, 359-370	0.9	47
1	Efficient Selective Extraction of Scandium from Red Mud. <i>Mineral Processing and Extractive Metallurgy Review</i> , 1-9	3.1	4