

Xiao-Bo Min

List of Publications by Year in descending order

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103
papers

3,638
citations

109264

35
h-index

155592

55
g-index

103
all docs

103
docs citations

103
times ranked

2915
citing authors

#	ARTICLE	IF	CITATIONS
1	Solidification/stabilization of highly toxic arsenic-alkali residue by MSWI fly ash-based cementitious material containing Friedelâ€™s salt: Efficiency and mechanism. <i>Journal of Hazardous Materials</i> , 2022, 425, 127992.	6.5	29
2	Sublayer-enhanced atomic sites of single atom catalysts through <i>in situ</i> atomization of metal oxide nanoparticles. <i>Energy and Environmental Science</i> , 2022, 15, 1183-1191.	15.6	25
3	Process and mechanism of hydrothermal stabilization for arsenic sulfide sludge containing elemental sulfur. <i>Transactions of Nonferrous Metals Society of China</i> , 2022, 32, 1041-1049.	1.7	4
4	Stabilization of ferric arsenate sludge with ZVI intensive corrosion and enhancement of long-term arsenic immobilization via resin encapsulation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107392.	3.3	4
5	Defluorination mechanism related to the activity of hydroxyl groups: A combined density functional theory calculations and experimental study. <i>Chemical Engineering Journal</i> , 2022, 437, 135342.	6.6	3
6	Co-Co ₃ O ₄ encapsulated in nitrogen-doped carbon nanotubes for capacitive desalination: Effects of nano-confinement and cobalt speciation. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 389-400.	5.0	23
7	Recent progress in understanding the mechanism of heavy metals retention by iron (oxyhydr)oxides. <i>Science of the Total Environment</i> , 2021, 752, 141930.	3.9	172
8	Stabilization mechanism of arsenic-sulfide slag by density functional theory calculation of arsenic-sulfide clusters. <i>Journal of Hazardous Materials</i> , 2021, 410, 124567.	6.5	9
9	Development and simulation of a struvite crystallization fluidized bed reactor with enhanced external recirculation for phosphorous and ammonium recovery. <i>Science of the Total Environment</i> , 2021, 760, 144311.	3.9	11
10	The isothermal kinetics of zinc ferrite reduction with carbon monoxide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 2253-2260.	2.0	12
11	Transformation behavior of the morphology, structure and toxicity of amorphous As ₂ S ₃ during hydrothermal process. <i>Hydrometallurgy</i> , 2021, 200, 105549.	1.8	11
12	Formation and in-situ dissociation of particulate arsenic in the zinc-containing flue gas from nonferrous metallurgy. <i>Separation and Purification Technology</i> , 2021, 266, 118575.	3.9	4
13	Formation of arsenic-copper-containing particles and their sulfation decomposition mechanism in copper smelting flue gas. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 2153-2164.	1.7	14
14	Synergistic chromium(VI) reduction and phenol oxidative degradation by FeS ₂ /FeO and persulfate. <i>Chemosphere</i> , 2021, 281, 130957.	4.2	24
15	Characteristics, kinetics, thermodynamics and long-term effects of zerovalent iron/pyrite in remediation of Cr(VI)-contaminated soil. <i>Environmental Pollution</i> , 2021, 289, 117830.	3.7	30
16	Effect of simulated acid rain on stability of arsenic calcium residue in residue field. <i>Environmental Geochemistry and Health</i> , 2020, 42, 769-780.	1.8	25
17	Stabilization of arsenic sulfide sludge by hydrothermal treatment. <i>Hydrometallurgy</i> , 2020, 191, 105229.	1.8	40
18	Physicochemical and environmental properties of arsenic sulfide sludge from copper and lead-zinc smelter. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 1943-1955.	1.7	20

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19	Sulfidation roasting of zinc leaching residue with pyrite for recovery of zinc and iron. <i>Journal of Central South University</i> , 2020, 27, 1186-1196.	1.2	10
20	Selective removal of Cl^- and F^- from complex solution via electrochemistry deionization with bismuth/reduced graphene oxide composite electrode. <i>Chemosphere</i> , 2020, 251, 126319.	4.2	41
21	Mechanochemically Activated Microsized Zero-Valent Iron/Pyrite Composite for Effective Hexavalent Chromium Sequestration in Aqueous Solution. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 1936-1945.	1.0	33
22	Enhanced adsorption of antimonate by ball-milled microscale zero valent iron/pyrite composite: adsorption properties and mechanism insight. <i>Environmental Science and Pollution Research</i> , 2020, 27, 16484-16495.	2.7	28
23	Synthesis and Hydration Characteristic of Geopolymer Based on Lead Smelting Slag. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2762.	1.2	8
24	Dissociation mechanism of particulate matter containing arsenic and lead in smelting flue gas by pyrite. <i>Journal of Cleaner Production</i> , 2020, 259, 120875.	4.6	25
25	Frontispiece: Bifunctional Catalysts for Reversible Oxygen Evolution Reaction and Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , 2020, 26, .	1.7	0
26	Stabilization of ferric arsenate sludge with mechanochemically prepared FeS_2/Fe composites. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 1983-1992.	1.7	11
27	Cotreatment of MSWI Fly Ash and Granulated Lead Smelting Slag Using a Geopolymer System. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 156.	1.2	22
28	Immobilization potential and immobilization mechanism of arsenic in cemented paste backfill. <i>Minerals Engineering</i> , 2019, 138, 101-107.	1.8	46
29	Synergistic effect of nitrogen, sulfur-codoping on porous carbon nanosheets as highly efficient electrodes for capacitive deionization. <i>Journal of Colloid and Interface Science</i> , 2019, 550, 147-158.	5.0	43
30	Release Behaviors of Arsenic and Heavy Metals from Arsenic Sulfide Sludge during Simulated Storage. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 130.	0.8	21
31	Arsenic Pollution Control Technologies for Arsenic-Bearing Solid Wastes. , 2019, , 121-195.		1
32	Effect of scrubbing by NaClO backwashing on membrane fouling in anammox MBR. <i>Science of the Total Environment</i> , 2019, 670, 149-157.	3.9	40
33	Effect of particle size on uranium bioleaching in column reactors from a low-grade uranium ore. <i>Bioresource Technology</i> , 2019, 281, 66-71.	4.8	32
34	Highly Efficient Antimonate Removal from Water by Pyrite/Hematite Bi-Mineral: Performance and Mechanism Studies. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 5910-5919.	1.0	15
35	Preparation of red mud-based geopolymer materials from MSWI fly ash and red mud by mechanical activation. <i>Waste Management</i> , 2019, 83, 202-208.	3.7	227
36	Comparison of arsenic immobilization properties among calcium silicate hydrate, ettringite, and friedel's salt in a slag-based binder. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, S422.	1.3	23

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37	Bioconversion of lignin into bioplastics by <i>Pandora</i> sp. B-6: molecular mechanism. <i>Environmental Science and Pollution Research</i> , 2019, 26, 2761-2770.	2.7	38
38	Enhanced degradation of 1-naphthol in landfill leachate using <i>Arthrobacter</i> sp.. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 835-842.	1.2	6
39	Sorption and biodegradation of pharmaceuticals in aerobic activated sludge system: A combined experimental and theoretical mechanistic study. <i>Chemical Engineering Journal</i> , 2018, 342, 211-219.	6.6	80
40	Co-treatment of flotation waste, neutralization sludge, and arsenic-containing gypsum sludge from copper smelting: solidification/stabilization of arsenic and heavy metals with minimal cement clinker. <i>Environmental Science and Pollution Research</i> , 2018, 25, 7600-7607.	2.7	71
41	Effects of anions on calcium arsenate crystalline structure and arsenic stability. <i>Hydrometallurgy</i> , 2018, 177, 123-131.	1.8	54
42	The study of a pilot-scale aerobic/Fenton/anoxic/aerobic process system for the treatment of landfill leachate. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1926-1936.	1.2	14
43	Utilization of red mud and Pb/Zn smelter waste for the synthesis of a red mud-based cementitious material. <i>Journal of Hazardous Materials</i> , 2018, 344, 343-349.	6.5	85
44	Sulfidation behavior and mechanism of zinc silicate roasted with pyrite. <i>Applied Surface Science</i> , 2018, 435, 1011-1019.	3.1	37
45	Microscopic insight into precipitation and adsorption of As(V) species by Fe-based materials in aqueous phase. <i>Chemosphere</i> , 2018, 194, 117-124.	4.2	13
46	Insights into the role of extracellular polymeric substances in Zn ²⁺ adsorption in different biological sludge systems. <i>Environmental Science and Pollution Research</i> , 2018, 25, 36680-36692.	2.7	17
47	Hydrothermal Treatment of Arsenic Sulfide Residues from Arsenic-Bearing Acid Wastewater. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1863.	1.2	25
48	Aromatic organoarsenic compounds (AOCs) occurrence and remediation methods. <i>Chemosphere</i> , 2018, 207, 665-675.	4.2	54
49	Erratum to "XPS and FTIR studies of sodium arsenate vitrification by cullet" [<i>Journal of Non-Crystalline Solids</i> 452(2016) 238-244]. <i>Journal of Non-Crystalline Solids</i> , 2018, 502, 254.	1.5	1
50	Thermodynamics, kinetics and mechanism analysis of Cu(II) adsorption by in-situ synthesized struvite crystal. <i>Journal of Central South University</i> , 2018, 25, 1033-1042.	1.2	25
51	Uranium bioleaching from low-grade carbonaceous-siliceous-argillaceous type uranium ore using an indigenous <i>Acidithiobacillus ferrooxidans</i> . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 317, 1033-1040.	0.7	18
52	Inhibition kinetics of ammonium oxidizing bacteria under Cu(II) and As(III) stresses during the nitrification process. <i>Chemical Engineering Journal</i> , 2018, 352, 811-817.	6.6	30
53	Feasibility and enhancement of copper and ammonia removal from wastewater using struvite formation: a comparative research. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 325-333.	1.6	38
54	Modeling and optimization of lime-based stabilization in high alkaline arsenic-bearing sludges with a central composite design. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 449-458.	0.9	33

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55	Removal of nitrogen from wastewaters by anaerobic ammonium oxidation (ANAMMOX) using granules in upflow reactors. <i>Environmental Chemistry Letters</i> , 2017, 15, 311-328.	8.3	93
56	Fe-FeS ₂ adsorbent prepared with iron powder and pyrite by facile ball milling and its application for arsenic removal. <i>Water Science and Technology</i> , 2017, 76, 192-200.	1.2	72
57	High-resolution analyses reveal structural diversity patterns of microbial communities in Chromite Ore Processing Residue (COPR) contaminated soils. <i>Chemosphere</i> , 2017, 183, 266-276.	4.2	49
58	Physicochemical properties of arsenic-bearing lime-ferrous ferrate sludge and its leaching behaviors. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 1188-1198.	1.7	23
59	Insights into water-mediated ion clustering in aqueous CaSO ₄ solutions: pre-nucleation cluster characteristics studied by ab initio calculations and molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11390-11403.	1.3	24
60	Efficient Removal of Antimony (III, V) from Contaminated Water by Amino Modification of a Zirconium Metal-Organic Framework with Mechanism Study. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 1519-1529.	1.0	93
61	Health and ecological risk assessment of heavy metals pollution in an antimony mining region: a case study from South China. <i>Environmental Science and Pollution Research</i> , 2017, 24, 27573-27586.	2.7	111
62	Cover Image, Volume 92, Issue 2. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, i-i.	1.6	0
63	Heap bioleaching of uranium from low-grade granite-type ore by mixed acidophilic microbes. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 251-258.	0.7	32
64	Separation of Cu and As in Cu-As-containing filter cakes by Cu ²⁺ -assisted acid leaching. <i>Hydrometallurgy</i> , 2017, 172, 45-50.	1.8	33
65	Heavy metals and metalloids in the surface sediments of the Xiangjiang River, Hunan, China: distribution, contamination, and ecological risk assessment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 874-885.	2.7	170
66	Stabilization of arsenic sludge with mechanochemically modified zero valent iron. <i>Chemosphere</i> , 2017, 168, 1142-1151.	4.2	92
67	Study on the mechanism of copper-ammonia complex decomposition in struvite formation process and enhanced ammonia and copper removal. <i>Journal of Environmental Sciences</i> , 2017, 51, 222-233.	3.2	63
68	Sulfidation Roasting of Hemimorphite with Pyrite for the Enrichment of Zn and Pb. <i>Jom</i> , 2016, 68, 2435-2442.	0.9	8
69	Sulfidation behavior of Zn and ZnS crystal growth kinetics for Zn(OH) ₂ -NaOH hydrothermal system. <i>Hydrometallurgy</i> , 2016, 161, 166-173.	1.8	21
70	Sulfidation behavior of ZnFe ₂ O ₄ roasted with pyrite: Sulfur inducing and sulfur-oxygen interface exchange mechanism. <i>Applied Surface Science</i> , 2016, 371, 67-73.	3.1	36
71	Enhanced short-cut nitrification in an airlift reactor by CaCO ₃ attachment on biomass under high bicarbonate condition. <i>Biodegradation</i> , 2016, 27, 131-144.	1.5	9
72	Performance and characteristics of a nitritation air-lift reactor under long-term HRT shortening. <i>International Biodeterioration and Biodegradation</i> , 2016, 111, 45-53.	1.9	38

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73	XPS and FTIR studies of sodium arsenate vitrification by cullet. <i>Journal of Non-Crystalline Solids</i> , 2016, 452, 238-244.	1.5	38
74	Co-treatment of gypsum sludge and Pb/Zn smelting slag for the solidification of sludge containing arsenic and heavy metals. <i>Journal of Environmental Management</i> , 2016, 181, 756-761.	3.8	110
75	Reductive clean leaching process of cadmium from hydrometallurgical zinc neutral leaching residue using sulfur dioxide. <i>Journal of Cleaner Production</i> , 2016, 113, 910-918.	4.6	37
76	Selenium catalyzed Fe(III)-EDTA reduction by Na ₂ SO ₃ : a reaction-controlled phase transfer catalysis. <i>Environmental Science and Pollution Research</i> , 2016, 23, 8113-8119.	2.7	30
77	The effects of antimony oxide on the structure of iron phosphate glass for the immobilisation of arsenic. <i>Glass Technology: European Journal of Glass Science and Technology Part A</i> , 2015, 56, 196-202.	0.2	3
78	Separation of Zinc from High Iron-Bearing Zinc Calcines by Reductive Roasting and Leaching. <i>Jom</i> , 2015, 67, 1988-1996.	0.9	13
79	Kinetics of Reductive Acid Leaching of Cadmium-Bearing Zinc Ferrite Mixture Using Hydrazine Sulfate. <i>Jom</i> , 2015, 67, 2028-2037.	0.9	7
80	Mechanical Activation-Assisted Reductive Leaching of Cadmium from Zinc Neutral Leaching Residue Using Sulfur Dioxide. <i>Jom</i> , 2015, 67, 3010-3021.	0.9	9
81	Behavior and effect of calcium during hydrothermal sulfidation and flotation of zinc-calcium-based neutralization sludge. <i>Minerals Engineering</i> , 2015, 74, 68-78.	1.8	30
82	Removal and stabilization of arsenic from anode slime by forming crystal scorodite. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 1298-1306.	1.7	61
83	Partial nitrification in an air-lift reactor with long-term feeding of increasing ammonium concentrations. <i>Bioresource Technology</i> , 2015, 185, 134-142.	4.8	38
84	Separation and recovery of ZnS from sulfidized neutralization sludge via the hydration conversion of CaSO ₄ into bulk CaSO ₄ ·2H ₂ O crystals. <i>Separation and Purification Technology</i> , 2015, 154, 76-81.	3.9	21
85	Raman and FTIR spectra of modified iron phosphate glasses containing arsenic. <i>Journal of Molecular Structure</i> , 2015, 1081, 389-394.	1.8	52
86	Assessment of the stability of chromium in remedied soils by <i>Pannonibacter phragmitetus</i> BB and its risk to groundwater. <i>Journal of Soils and Sediments</i> , 2014, 14, 1098-1106.	1.5	15
87	Sulfidation of heavy-metal-containing neutralization sludge using zinc leaching residue as the sulfur source for metal recovery and stabilization. <i>Minerals Engineering</i> , 2014, 61, 105-112.	1.8	47
88	Environmental availability and ecological risk assessment of heavy metals in zinc leaching residue. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 208-218.	1.7	81
89	Sulfidation of heavy-metal-containing metallurgical residue in wet-milling processing. <i>Minerals Engineering</i> , 2013, 53, 136-143.	1.8	19
90	Quantitative evaluation of environmental risks of flotation tailings from hydrothermal sulfidation-flotation process. <i>Environmental Science and Pollution Research</i> , 2013, 20, 6050-6058.	2.7	60

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91	Mechano-chemical sulfidization of zinc oxide by grinding with sulfur and reductive additives. Transactions of Nonferrous Metals Society of China, 2013, 23, 1129-1138.	1.7	33
92	Hydrothermal modification to improve the floatability of ZnS crystals. Minerals Engineering, 2013, 40, 16-23.	1.8	16
93	The Increasing Interest of ANAMMOX Research in China: Bacteria, Process Development, and Application. BioMed Research International, 2013, 2013, 1-21.	0.9	70
94	Leaching process of selenium residue. Journal of Central South University, 2012, 19, 2440-2446.	1.2	5
95	Recovery of bismuth and antimony metals from pressure-leaching slag. Rare Metals, 2012, 31, 102-106.	3.6	13
96	Hydrothermal sulfidation of zinc-containing neutralization sludge for zinc recovery and stabilization. Minerals Engineering, 2012, 25, 14-19.	1.8	34
97	Hydrothermal sulfidation and floatation treatment of heavy-metal-containing sludge for recovery and stabilization. Journal of Hazardous Materials, 2012, 217-218, 307-314.	6.5	60
98	Control of metal toxicity, effluent COD and regeneration of gel beads by immobilized sulfate-reducing bacteria. Chemosphere, 2008, 72, 1086-1091.	4.2	19
99	Copper Leaching Behavior of Iron-Oxide Hosted Copper-Gold Ore in Sulfuric Acid Medium. Materials Transactions, 2008, 49, 2611-2617.	0.4	0
100	Preparation of adhesive for bamboo plywood using concentrated papermaking black liquor directly. Central South University, 2006, 13, 53-57.	0.5	13
101	Study on stainless steelmaking dust agglomeration. Central South University, 2004, 11, 45-50.	0.5	2
102	Optimization of efficient stable reagent of alkaline thiourea solution for gold leaching. Central South University, 2003, 10, 292-296.	0.5	4
103	Removal of lead in wastewater by immobilized inactivated cells of Rhizopus oligosporus. Central South University, 2003, 10, 313-317.	0.5	6