

Di Fang

List of Publications by Year in descending order

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86
papers

2,482
citations

159525

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2004
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#	ARTICLE	IF	CITATIONS
1	Effect of carbon source, C/N ratio, nitrate and dissolved oxygen concentration on nitrite and ammonium production from denitrification process by <i>Pseudomonas stutzeri</i> D6. <i>Bioresource Technology</i> , 2012, 104, 65-72.	4.8	163
2	Adsorptive removal of As(III) by biogenic schwertmannite from simulated As-contaminated groundwater. <i>Chemosphere</i> , 2011, 83, 295-301.	4.2	98
3	Improvement of sludge dewaterability and removal of sludge-borne metals by bioleaching at optimum pH. <i>Journal of Hazardous Materials</i> , 2012, 221-222, 170-177.	6.5	85
4	Bioleaching conditioning increased the bioavailability of polycyclic aromatic hydrocarbons to promote their removal during co-composting of industrial and municipal sewage sludges. <i>Science of the Total Environment</i> , 2019, 665, 1073-1082.	3.9	74
5	Importance of sludge conditioning in attenuating antibiotic resistance: Removal of antibiotic resistance genes by bioleaching and chemical conditioning with Fe[III]/CaO. <i>Water Research</i> , 2019, 152, 61-73.	5.3	70
6	Activation of peroxymonosulfate with CuCo ₂ O ₄ @kaolin for the efficient degradation of phenacetin. <i>Chemical Engineering Journal</i> , 2020, 401, 126014.	6.6	69
7	Photo-Fenton-like degradation of azo dye methyl orange using synthetic ammonium and hydronium jarosite. <i>Journal of Alloys and Compounds</i> , 2013, 546, 112-118.	2.8	68
8	Enhancement of the dewaterability of sludge during bioleaching mainly controlled by microbial quantity change and the decrease of slime extracellular polymeric substances content. <i>Bioresource Technology</i> , 2014, 168, 190-197.	4.8	68
9	Producing OH, SO ₄ ^{•-} and O ₂ ^{•-} in heterogeneous Fenton reaction induced by Fe ₃ O ₄ -modified schwertmannite. <i>Chemical Engineering Journal</i> , 2020, 393, 124735.	6.6	67
10	Modifying organic carbon in Fe ₃ O ₄ -loaded schwertmannite to improve heterogeneous Fenton activity through accelerating Fe(II) generation. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119830.	10.8	61
11	H ⁺ /phenanthrene Symporter and Aquaglyceroporin Are Implicated in Phenanthrene Uptake by Wheat (<i>Triticum aestivum</i> L.) Roots. <i>Journal of Environmental Quality</i> , 2012, 41, 188-196.	1.0	55
12	Interactive effect of dissolved organic matter and phenanthrene on soil enzymatic activities. <i>Journal of Environmental Sciences</i> , 2010, 22, 607-614.	3.2	54
13	A novel approach to rapidly purify acid mine drainage through chemically forming schwertmannite followed by lime neutralization. <i>Water Research</i> , 2019, 151, 515-522.	5.3	51
14	Occurrence of biogenic schwertmannite in sludge bioleaching environments and its adverse effect on solubilization of sludge-borne metals. <i>Applied Geochemistry</i> , 2009, 24, 1739-1746.	1.4	48
15	Microwave-ultrasound assisted synthesis of Fe ²⁺ -FeOOH and its catalytic property in a photo-Fenton-like process. <i>Ultrasonics Sonochemistry</i> , 2015, 27, 287-295.	3.8	46
16	Heterotrophic microorganism <i>Rhodotorula mucilaginosa</i> R30 improves tannery sludge bioleaching through elevating dissolved CO ₂ and extracellular polymeric substances levels in bioleach solution as well as scavenging toxic DOM to <i>Acidithiobacillus</i> species. <i>Water Research</i> , 2010, 44, 5423-5431.	5.3	45
17	Conditioning with zero-valent iron or Fe ²⁺ activated peroxydisulfate at an acidic initial sludge pH removed intracellular antibiotic resistance genes but increased extracellular antibiotic resistance genes in sewage sludge. <i>Journal of Hazardous Materials</i> , 2020, 386, 121982.	6.5	42
18	Removal of Cr from tannery sludge by bioleaching method. <i>Journal of Environmental Sciences</i> , 2006, 18, 885-890.	3.2	41

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19	Improving solid-liquid separation performance of anaerobic digestate from food waste by thermally activated persulfate oxidation. <i>Journal of Hazardous Materials</i> , 2020, 398, 122989.	6.5	40
20	High-efficient removal of arsenite by coagulation with titanium xerogel coagulant. <i>Separation and Purification Technology</i> , 2021, 258, 118047.	3.9	38
21	Simultaneous oxidation and precipitation of iron using jarosite immobilized <i>Acidithiobacillus ferrooxidans</i> and its relevance to acid mine drainage. <i>Hydrometallurgy</i> , 2012, 125-126, 152-156.	1.8	37
22	Assessment of schwertmannite, jarosite and goethite as adsorbents for efficient adsorption of phenanthrene in water and the regeneration of spent adsorbents by heterogeneous fenton-like reaction. <i>Chemosphere</i> , 2020, 244, 125523.	4.2	37
23	Free radicals removing extracellular polymeric substances to enhance the degradation of intracellular antibiotic resistance genes in multi-resistant <i>Pseudomonas Putida</i> by UV/H ₂ O ₂ and UV/peroxydisulfate disinfection processes. <i>Journal of Hazardous Materials</i> , 2022, 430, 128502.	6.5	37
24	Bioleached sludge composting drastically reducing ammonia volatilization as well as decreasing bulking agent dosage and improving compost quality: A case study. <i>Waste Management</i> , 2015, 44, 55-62.	3.7	36
25	Significance of jarosite dissolution from the biooxidized pyrite surface on further biooxidation of pyrite. <i>Hydrometallurgy</i> , 2018, 176, 33-41.	1.8	35
26	Sequential hydrotalcite precipitation and biological sulfate reduction for acid mine drainage treatment. <i>Chemosphere</i> , 2020, 252, 126570.	4.2	35
27	Heterogeneous Fenton-like degradation of phenanthrene catalyzed by schwertmannite biosynthesized using <i>Acidithiobacillus ferrooxidans</i> . <i>RSC Advances</i> , 2017, 7, 21638-21648.	1.7	34
28	Influences of Extracellular Polymeric Substances on the Dewaterability of Sewage Sludge during Bioleaching. <i>PLoS ONE</i> , 2014, 9, e102688.	1.1	33
29	Assessment of catalytic activities of selected iron hydroxysulphates biosynthesized using <i>Acidithiobacillus ferrooxidans</i> for the degradation of phenol in heterogeneous Fenton-like reactions. <i>Separation and Purification Technology</i> , 2017, 185, 83-93.	3.9	33
30	Both initial concentrations of Fe(II) and monovalent cations jointly determine the formation of biogenic iron hydroxysulfate precipitates in acidic sulfate-rich environments. <i>Materials Science and Engineering C</i> , 2012, 32, 2323-2329.	3.8	32
31	A novel approach for treating acid mine drainage through forming schwertmannite driven by a mixed culture of <i>Acidiphilium multivorum</i> and <i>Acidithiobacillus ferrooxidans</i> prior to lime neutralization. <i>Journal of Hazardous Materials</i> , 2020, 400, 123108.	6.5	32
32	Biological indicators capable of assessing thermal treatment efficiency of hydrocarbon mixture-contaminated soil. <i>Chemosphere</i> , 2010, 80, 837-844.	4.2	31
33	High-rate precipitation of iron as jarosite by using a combination process of electrolytic reduction and biological oxidation. <i>Hydrometallurgy</i> , 2014, 143, 23-27.	1.8	31
34	Effect of neutralized solid waste generated in lime neutralization on the ferrous ion bio-oxidation process during acid mine drainage treatment. <i>Journal of Hazardous Materials</i> , 2015, 299, 404-411.	6.5	31
35	Effect of microbial nutrients supply on coal bio-desulfurization. <i>Journal of Hazardous Materials</i> , 2020, 384, 121324.	6.5	31
36	Simulated solarlight catalytic reduction of Cr(VI) on microwave-ultrasonication synthesized flower-like CuO in the presence of tartaric acid. <i>Materials Chemistry and Physics</i> , 2016, 171, 386-393.	2.0	29

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37	Pre-coagulation with cationic flocculant-composited titanium xerogel coagulant for alleviating subsequent ultrafiltration membrane fouling by algae-related pollutants. <i>Journal of Hazardous Materials</i> , 2021, 407, 124838.	6.5	28
38	Schwertmannite Synthesis through Ferrous Ion Chemical Oxidation under Different H ₂ O ₂ Supply Rates and Its Removal Efficiency for Arsenic from Contaminated Groundwater. <i>PLoS ONE</i> , 2015, 10, e0138891.	1.1	27
39	Degradation of slime extracellular polymeric substances and inhibited sludge flocs destruction contribute to sludge dewaterability enhancement during fungal treatment of sludge using filamentous fungus <i>Mucor</i> sp. GY-1. <i>Bioresource Technology</i> , 2015, 192, 514-521.	4.8	25
40	High-efficient elimination of roxarsone by MoS ₂ @Schwertmannite via heterogeneous photo-Fenton oxidation and simultaneous arsenic immobilization. <i>Chemical Engineering Journal</i> , 2021, 405, 126952.	6.6	24
41	Enhancement of sludge dewaterability by sequential inoculation of filamentous fungus <i>Mucor circinelloides</i> ZG-3 and <i>Acidithiobacillus ferrooxidans</i> LX5. <i>Chemical Engineering Journal</i> , 2016, 284, 216-223.	6.6	23
42	Fe ²⁺ oxidation rate drastically affect the formation and phase of secondary iron hydroxysulfate mineral occurred in acid mine drainage. <i>Materials Science and Engineering C</i> , 2012, 32, 916-921.	3.8	22
43	Isolation and characterization of a nitrobenzene-degrading bacterium <i>Klebsiella ornithinolytica</i> NB1 from aerobic granular sludge. <i>Bioresource Technology</i> , 2012, 110, 91-96.	4.8	21
44	Co-adsorption of As(III) and phenanthrene by schwertmannite and Fenton-like regeneration of spent schwertmannite to realize phenanthrene degradation and As(III) oxidation. <i>Environmental Research</i> , 2021, 195, 110855.	3.7	21
45	Consolidation of hydrogenotrophic methanogenesis by sulfidated nanoscale zero-valent iron in the anaerobic digestion of food waste upon ammonia stress. <i>Science of the Total Environment</i> , 2022, 822, 153531.	3.9	19
46	Influences of U Sources and Forms on Its Bioaccumulation in Indian Mustard and Sunflower. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	18
47	Improving the compression dewatering of sewage sludge through bioacidification conditioning driven by <i>Acidithiobacillus ferrooxidans</i> : dewatering rate vs. dewatering extent. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3176-3189.	1.2	18
48	Nitrogen removal performance of high ammonium and high salt wastewater by adding carbon source from food waste fermentation with different acidogenic metabolic pathways. <i>Chemosphere</i> , 2022, 292, 133512.	4.2	18
49	Impregnation synthesis of TiO ₂ /hydroniumjarosite composite with enhanced property in photocatalytic reduction of Cr(VI). <i>Materials Chemistry and Physics</i> , 2015, 152, 4-8.	2.0	17
50	Application of Green Manure and Pig Manure to Cd-Contaminated Paddy Soil Increases the Risk of Cd Uptake by Rice and Cd Downward Migration into Groundwater: Field Micro-Plot Trials. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	17
51	Heating Changes Bio-Schwertmannite Microstructure and Arsenic(III) Removal Efficiency. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 9.	0.8	17
52	Impact of sludge conditioning treatment on the bioavailability of pyrene in sewage sludge. <i>Ecotoxicology and Environmental Safety</i> , 2018, 163, 196-204.	2.9	17
53	Recovering iron and sulfate in the form of mineral from acid mine drainage by a bacteria-driven cyclic biomineralization system. <i>Chemosphere</i> , 2021, 262, 127567.	4.2	16
54	A collaborative strategy for enhanced anaerobic co-digestion of food waste and waste activated sludge by using zero valent iron and ferrous sulfide. <i>Bioresource Technology</i> , 2022, 347, 126420.	4.8	16

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55	Migration and Fate of Acid Mine Drainage Pollutants in Calcareous Soil. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1759.	1.2	15
56	Hydroxyl, Fe ²⁺ , and <i>Acidithiobacillus ferrooxidans</i> Jointly Determined the Crystal Growth and Morphology of Schwertmannite in a Sulfate-Rich Acidic Environment. <i>ACS Omega</i> , 2021, 6, 3194-3201.	1.6	15
57	Food waste hydrolysate as a carbon source to improve nitrogen removal performance of high ammonium and high salt wastewater in a sequencing batch reactor. <i>Bioresource Technology</i> , 2022, 349, 126855.	4.8	15
58	A novel approach coupling ferrous iron bio-oxidation and ferric iron chemo-reduction to promote biomineralization in simulated acidic mine drainage. <i>RSC Advances</i> , 2019, 9, 5083-5090.	1.7	14
59	Effects of Acid Mine Drainage on Calcareous Soil Characteristics and <i>Lolium perenne</i> L. Germination. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2742.	1.2	13
60	Organic carbon modified Fe ₃ O ₄ /schwertmannite for heterogeneous Fenton reaction featuring synergistic in-situ H ₂ O ₂ generation and activation. <i>Separation and Purification Technology</i> , 2021, 276, 119344.	3.9	13
61	Simultaneously attenuating antibiotic resistance genes and improving the dewaterability of sewage sludge by conditioning with Fenton's reagent: the pivotal role of sludge pre-acidification. <i>Environmental Science and Pollution Research</i> , 2021, 28, 13300-13311.	2.7	12
62	Modified chemical mineralization-alkali neutralization technology: Mineralization behavior at high iron concentrations and its application in sulfur acid spent pickling solution. <i>Water Research</i> , 2022, 218, 118513.	5.3	12
63	Fabricating Fe ₃ O ₄ -schwertmannite as a Z-scheme photocatalyst with excellent photocatalysis-Fenton reaction and recyclability. <i>Journal of Environmental Sciences</i> , 2020, 98, 186-195.	3.2	11
64	Rapid initiation of methanogenesis in the anaerobic digestion of food waste by acclimatizing sludge with sulfidated nanoscale zerovalent iron. <i>Bioresource Technology</i> , 2021, 341, 125805.	4.8	11
65	Bioleaching rather than chemical conditioning using Fe(III)/CaO or polyacrylamide mitigates antibiotic resistance in sludge composting via pre-removing antibiotic resistance genes and limiting horizontal gene transfer. <i>Waste Management</i> , 2022, 137, 89-99.	3.7	11
66	Antibacterial potency of housefly larvae extract from sewage sludge through bioconversion. <i>Journal of Environmental Sciences</i> , 2013, 25, 1897-1905.	3.2	10
67	Schwertmannite Adherence to the Reactor Wall during the Bio-Synthesis Process and Deterioration of Its Structural Characteristics and Arsenic(III) Removal Efficiency. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 64.	0.8	10
68	Enhanced catalytic performance of Fe ²⁺ -FeOOH by coupling with single-walled carbon nanotubes in a visible-light-Fenton-like process. <i>Science and Engineering of Composite Materials</i> , 2018, 25, 9-15.	0.6	10
69	Optimization of nitrate and selenate reduction in an ethanol-fed fluidized bed reactor via redox potential feedback control. <i>Journal of Hazardous Materials</i> , 2021, 402, 123770.	6.5	10
70	Effect of high concentration of ammonium on production of n-caproate: Recovery of a high-value biochemical from food waste via lactate-driven chain elongation. <i>Waste Management</i> , 2021, 128, 25-35.	3.7	10
71	The role of heterotrophic microorganism <i>Galactomyces</i> sp. Z3 in improving pig slurry bioleaching. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 35-43.	1.2	9
72	Extracellular polymeric substances and bound water drastically affect bioleached sludge dewaterability at low temperature. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 2538-2545.	1.2	9

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73	Significance of Oxygen Supply in Jarosite Biosynthesis Promoted by <i>Acidithiobacillus ferrooxidans</i> . PLoS ONE, 2015, 10, e0120966.	1.1	9
74	Transformation of heavy metals and the formation of secondary iron minerals during pig manure bioleaching by the co-inoculation acidophilic thiobacillus. Environmental Technology (United Kingdom), 2019, 42, 1-14.	1.2	8
75	Evaluation and optimization of a new microbial enhancement plug-flow ditch system for the pretreatment of acid mine drainage: semi-pilot test. RSC Advances, 2018, 8, 1039-1046.	1.7	8
76	Impact of initial sludge pH on enhancing the dewaterability of waste activated sludge by zero-valent iron-activated peroxydisulphate. Environmental Technology (United Kingdom), 2019, 42, 1-14.	1.2	8
77	The coupling reaction of Fe ²⁺ bio-oxidation and resulting Fe ³⁺ hydrolysis drastically improve the formation of iron hydroxysulfate minerals in AMD. Environmental Technology (United Kingdom), 2021, 42, 2325-2334.	1.2	8
78	Low-Dose CaO ₂ Enhanced Arsenite Coagulation via Elevating Solution pH and Persistently Oxidizing As(III) into As(V). ACS ES&T Water, 2021, 1, 2119-2127.	2.3	8
79	<i>Acidithiobacillus ferrooxidans</i> mediates morphology evolution of schwertmannite in the presence of Fe ²⁺ . Chemical Geology, 2022, 598, 120828.	1.4	8
80	High-rate microbial selenate reduction in an up-flow anaerobic fluidized bed reactor (FBR). Science of the Total Environment, 2020, 749, 142359.	3.9	6
81	Synthesis and assessment of schwertmannite/few-layer graphene composite for the degradation of sulfamethazine in heterogeneous Fenton-like reaction. Royal Society Open Science, 2020, 7, 191977.	1.1	5
82	Occurrence of bacterial and viral fecal markers in municipal sewage sludge and their removal during sludge conditioning processes. Journal of Environmental Management, 2022, 310, 114802.	3.8	5
83	Sequential removal of selenate, nitrate and sulfate and recovery of elemental selenium in a multi-stage bioreactor process with redox potential feedback control. Journal of Hazardous Materials, 2022, 424, 127539.	6.5	4
84	Acetylacetone promoted high-efficiency coagulation toward arsenite through a synchronous photooxidation process. Environmental Science: Water Research and Technology, 2022, 8, 1048-1058.	1.2	2
85	Sludge Conditioning Treatments Impact the Fate of Antibiotic Resistance Genes in Agricultural Soils Amended with Sludge Composts. ACS ES&T Engineering, 2022, 2, 1920-1932.	3.7	2
86	Isolation and characterisation of Fe(II)-oxidising bacteria and their application in the removal of arsenic in an aqueous solution. Environmental Technology (United Kingdom), 0, , 1-11.	1.2	1