

Jiakuan Yang

List of Publications by Year in descending order

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211
papers

10,304
citations

28242

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all docs

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8166
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#	ARTICLE	IF	CITATIONS
1	Nanofibrous Kevlar Hydrogel Ultrafiltration Membrane with High Acid Resistance and Antifouling Properties for Wastewater Treatment. <i>ACS ES&T Water</i> , 2023, 3, 1747-1755.	2.3	2
2	Recent Advances on the Development of Functional Materials in Microbial Fuel Cells: From Fundamentals to Challenges and Outlooks. <i>Energy and Environmental Materials</i> , 2022, 5, 401-426.	7.3	17
3	Anaerobic digestion of sludge by different pretreatments: Changes of amino acids and microbial community. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	10
4	Prediction on the combined toxicities of stimulation-only and inhibition-only contaminants using improved inverse distance weighted interpolation. <i>Chemosphere</i> , 2022, 287, 132045.	4.2	7
5	Microplastics affect rice (<i>Oryza sativa</i> L.) quality by interfering metabolite accumulation and energy expenditure pathways: A field study. <i>Journal of Hazardous Materials</i> , 2022, 422, 126834.	6.5	76
6	Enzyme immobilization on amino-functionalized Fe ₃ O ₄ @SiO ₂ via electrostatic interaction with enhancing biocatalysis in sludge dewatering. <i>Chemical Engineering Journal</i> , 2022, 427, 131976.	6.6	30
7	Recirculation of reject water in deep-dewatering process to influent of wastewater treatment plant and dewaterability of sludge conditioned with Fe ²⁺ /H ₂ O ₂ , Fe ²⁺ /Ca(ClO) ₂ , and Fe ²⁺ /Na ₂ S ₂ O ₈ : From bench to pilot-scale study. <i>Environmental Research</i> , 2022, 203, 111825.	3.7	25
8	Pretreatment of sludge with sodium iron chlorophyllin-H ₂ O ₂ for enhanced biogas production during anaerobic digestion. <i>Environmental Research</i> , 2022, 204, 112223.	3.7	5
9	Enhanced silicon bioavailability of biochar derived from sludge conditioned with Fenton's reagent and lime. <i>Science of the Total Environment</i> , 2022, 806, 150941.	3.9	4
10	Comparison of different valent iron on anaerobic sludge digestion: Focusing on oxidation reduction potential, dissolved organic nitrogen and microbial community. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	11
11	Hierarchically porous biochar preparation and simultaneous nutrient recovery from sewage sludge via three steps of alkali-activated pyrolysis, water leaching and acid leaching. <i>Resources, Conservation and Recycling</i> , 2022, 176, 105953.	5.3	19
12	Three-Dimensional PbO ₂ -Modified Carbon Felt Electrode for Efficient Electrocatalytic Oxidation of Phenol Characterized with In Situ ATR-FTIR. <i>Journal of Physical Chemistry C</i> , 2022, 126, 912-921.	1.5	8
13	Microalgae-assisted fixed-film activated sludge MFC for landfill leachate treatment and energy recovery. <i>Chemical Engineering Research and Design</i> , 2022, 160, 221-231.	2.7	28
14	A zero-waste strategy to synthesize geopolymer from iron-recovered Bayer red mud combined with fly ash: Roles of Fe, Al and Si. <i>Construction and Building Materials</i> , 2022, 322, 126176.	3.2	18
15	A closed-loop acetic acid system for recovery of PbO@C composite derived from spent lead-acid battery. <i>Resources, Conservation and Recycling</i> , 2022, 184, 106391.	5.3	8
16	Transforming anaerobically digested sludge into high-quality biosolids with an integrated physiochemical approach. <i>Resources, Conservation and Recycling</i> , 2022, 184, 106416.	5.3	22
17	Changes of phosphorus species during (hydro) thermal treatments of iron-rich sludge and their solubilization mediated by a phosphate solubilizing microorganism. <i>Science of the Total Environment</i> , 2022, 838, 156612.	3.9	7
18	Integration of electrochemical and calcium hypochlorite oxidation for simultaneous sludge deep dewatering, stabilization and phosphorus fixation. <i>Science of the Total Environment</i> , 2021, 750, 141408.	3.9	28

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19	Occurrence and exposure risk evaluation of polyhalogenated carbazoles (PHCZs) in drinking water. <i>Science of the Total Environment</i> , 2021, 750, 141615.	3.9	38
20	A cost-effective strategy for metal recovery from waste printed circuit boards via crushing pretreatment combined with pyrolysis: Effects of particle size and pyrolysis temperature. <i>Journal of Cleaner Production</i> , 2021, 280, 124505.	4.6	34
21	Simultaneous heavy metal removal and sludge deep dewatering with Fe(II) assisted electrooxidation technology. <i>Journal of Hazardous Materials</i> , 2021, 405, 124072.	6.5	29
22	Anaerobic fermentation of waste activated sludge for volatile fatty acid production: Recent updates of pretreatment methods and the potential effect of humic and nutrients substances. <i>Chemical Engineering Research and Design</i> , 2021, 145, 321-339.	2.7	101
23	Novel Insights into Extracellular Polymeric Substance Degradation, Hydrophilic/Hydrophobic Characteristics, and Dewaterability of Waste Activated Sludge Pretreated by Hydroxylamine Enhanced Fenton Oxidation. <i>ACS ES&T Engineering</i> , 2021, 1, 385-392.	3.7	56
24	Surface modification of <i>Shewanella oneidensis</i> MR-1 with polypyrrole-dopamine coating for improvement of power generation in microbial fuel cells. <i>Journal of Power Sources</i> , 2021, 483, 229220.	4.0	29
25	Enhancing waste activated sludge dewaterability by reducing interaction energy of sludge flocs. <i>Environmental Research</i> , 2021, 196, 110328.	3.7	29
26	New insights into the debromination mechanism of non-metallic fractions of waste printed circuit boards via alkaline-enhanced subcritical water route. <i>Resources, Conservation and Recycling</i> , 2021, 165, 105227.	5.3	11
27	An efficient hydrodynamic-biokinetic model for the optimization of operational strategy applied in a full-scale oxidation ditch by CFD integrated with ASM2. <i>Water Research</i> , 2021, 193, 116888.	5.3	17
28	N-doped hollow carbon nanoparticles encapsulated fibers derived from ZIF-8 self-sacrificed template for advanced lithium-sulfur batteries. <i>Microporous and Mesoporous Materials</i> , 2021, 317, 111000.	2.2	13
29	Hydrometallurgical Recovery of Spent Lithium Ion Batteries: Environmental Strategies and Sustainability Evaluation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5750-5767.	3.2	101
30	The evaluation of long term performance of microbial fuel cell based Pb toxicity shock sensor. <i>Chemosphere</i> , 2021, 270, 129455.	4.2	19
31	Phosphorus recovery from incinerated sewage sludge ash (ISSA) and reutilization of residues for sludge pretreated by different conditioners. <i>Resources, Conservation and Recycling</i> , 2021, 169, 105524.	5.3	23
32	Hydrothermal alkaline conversion of sewage sludge: optimization of process parameters and characterization of humic acid. <i>Environmental Science and Pollution Research</i> , 2021, 28, 57695-57705.	2.7	9
33	Degradation of refractory organics in dual-cathode electro-Fenton using air-cathode for H ₂ O ₂ electrogeneration and microbial fuel cell cathode for Fe ²⁺ regeneration. <i>Journal of Hazardous Materials</i> , 2021, 412, 125269.	6.5	41
34	A green strategy to synthesize two-dimensional lead halide perovskite via direct recovery of spent lead-acid battery. <i>Resources, Conservation and Recycling</i> , 2021, 169, 105463.	5.3	12
35	Ammonia chloride assisted air-chlorination recovery of tin from pyrometallurgical slag of spent lead-acid battery. <i>Resources, Conservation and Recycling</i> , 2021, 170, 105611.	5.3	10
36	Fate of New Persistent Organic Chemical 3,6-Dichlorocarbazole in Chlorinated Drinking Water. <i>ACS ES&T Water</i> , 2021, 1, 1728-1736.	2.3	5

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37	A review on microwave irradiation to the properties of geopolymers: Mechanisms and challenges. <i>Construction and Building Materials</i> , 2021, 294, 123491.	3.2	40
38	Efficient degradation of refractory pollutant in a microbial fuel cell with novel hybrid photocatalytic air-cathode: Intimate coupling of microbial and photocatalytic processes. <i>Bioresource Technology</i> , 2021, 340, 125717.	4.8	19
39	Stepwise extraction of Fe, Al, Ca, and Zn: A green route to recycle raw electroplating sludge. <i>Journal of Environmental Management</i> , 2021, 300, 113700.	3.8	20
40	Deciphering the impacts of composition of extracellular polymeric substances on sludge dewaterability: An often overlooked role of amino acids. <i>Chemosphere</i> , 2021, 284, 131297.	4.2	22
41	Preparation of sludge biochar rich in carboxyl/hydroxyl groups by quenching process and its excellent adsorption performance for Cr(VI). <i>Chemosphere</i> , 2021, 285, 131439.	4.2	46
42	Recycling of Mud Derived from Backwash Wastewater Coagulation as Magnetic Sodalite Sphere for Zn Adsorption. <i>Journal of Renewable Materials</i> , 2021, 9, 1599-1607.	1.1	1
43	Selective extraction of lithium from a spent lithium iron phosphate battery by mechanochemical solid-phase oxidation. <i>Green Chemistry</i> , 2021, 23, 1344-1352.	4.6	59
44	A one-step acidification strategy for sewage sludge dewatering with oxalic acid. <i>Chemosphere</i> , 2020, 238, 124598.	4.2	32
45	Green synthesis of magnetic sodalite sphere by using groundwater treatment sludge for tetracycline adsorption. <i>Journal of Cleaner Production</i> , 2020, 247, 119140.	4.6	26
46	Functionalization of UiO-66-NH ₂ with rhodanine via amidation: Towards a robust adsorbent with dual coordination sites for selective capture of Ag(I) from wastewater. <i>Chemical Engineering Journal</i> , 2020, 382, 123009.	6.6	55
47	Fe and N co-doped carbon derived from melamine resin capsuled biomass as efficient oxygen reduction catalyst for air-cathode microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 3163-3175.	3.8	37
48	Enhanced quorum sensing of anode biofilm for better sensing linearity and recovery capability of microbial fuel cell toxicity sensor. <i>Environmental Research</i> , 2020, 181, 108906.	3.7	36
49	A closed-loop ammonium salt system for recovery of high-purity lead tetroxide product from spent lead-acid battery paste. <i>Journal of Cleaner Production</i> , 2020, 250, 119488.	4.6	23
50	Predicting the higher heating value of syngas pyrolyzed from sewage sludge using an artificial neural network. <i>Environmental Science and Pollution Research</i> , 2020, 27, 785-797.	2.7	23
51	Biogas and phosphorus recovery from waste activated sludge with protocatechuic acid enhanced Fenton pretreatment, anaerobic digestion and microbial electrolysis cell. <i>Science of the Total Environment</i> , 2020, 704, 135274.	3.9	34
52	Microwave enhanced solidification/stabilization of lead slag with fly ash based geopolymer. <i>Journal of Cleaner Production</i> , 2020, 272, 122957.	4.6	39
53	Improvement of sludge dewaterability by ammonium sulfate and the potential reuse of sludge as nitrogen fertilizer. <i>Environmental Research</i> , 2020, 191, 110050.	3.7	15
54	Performance evaluation of microbial fuel cell for landfill leachate treatment: Research updates and synergistic effects of hybrid systems. <i>Journal of Environmental Sciences</i> , 2020, 96, 1-20.	3.2	39

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55	Enhanced sludge dewaterability with sludge-derived biochar activating hydrogen peroxide: Synergism of Fe and Al elements in biochar. <i>Water Research</i> , 2020, 182, 115927.	5.3	44
56	Enhance cathodic capacitance to eliminate power overshoot in microbial fuel cells. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1659-1667.	1.2	3
57	Metabolomics revealing the response of rice (<i>Oryza sativa</i> L.) exposed to polystyrene microplastics. <i>Environmental Pollution</i> , 2020, 266, 115159.	3.7	132
58	Enhanced 2,4,6-trichlorophenol degradation and biogas production with a coupled microbial electrolysis cell and anaerobic granular sludge system. <i>Bioresource Technology</i> , 2020, 303, 122958.	4.8	28
59	Phosphorus recovery from the liquid phase of an anaerobic digestate using biochar derived from iron-rich sludge: A potential phosphorus fertilizer. <i>Water Research</i> , 2020, 174, 115629.	5.3	133
60	From Lead Paste to High-Value Nanolead Sulfide Products: A New Application of Mechanochemistry in the Recycling of Spent Lead-Acid Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3547-3552.	3.2	16
61	Profiling of amino acids and their interactions with proteinaceous compounds for sewage sludge dewatering by Fenton oxidation treatment. <i>Water Research</i> , 2020, 175, 115645.	5.3	45
62	Oxygen vacancy mediated surface charge redistribution of Cu-substituted LaFeO ₃ for degradation of bisphenol A by efficient decomposition of H ₂ O ₂ . <i>Journal of Hazardous Materials</i> , 2020, 389, 122072.	6.5	59
63	The optimization on distributions of flow field and suspended solids in a full-scale high-rate clarifier using computational fluid dynamics. <i>Biochemical Engineering Journal</i> , 2020, 155, 107489.	1.8	9
64	Insight into effects of organic and inorganic phosphorus speciations on phosphorus removal efficiency in secondary effluent. <i>Environmental Science and Pollution Research</i> , 2020, 27, 11736-11748.	2.7	7
65	Effect of particle size on phase transitions of positive active materials made from novel lead oxide during soaking process and its influence on lead-acid battery capacity. <i>Journal of Energy Storage</i> , 2020, 28, 101175.	3.9	8
66	Enhanced treatment of landfill leachate with cathodic algal biofilm and oxygen-consuming unit in a hybrid microbial fuel cell system. <i>Bioresource Technology</i> , 2020, 310, 123420.	4.8	27
67	Sludge-derived biochar with multivalent iron as an efficient Fenton catalyst for degradation of 4-Chlorophenol. <i>Science of the Total Environment</i> , 2020, 725, 138299.	3.9	93
68	Ultrasensitive and Simultaneous Electrochemical Determination of Pb ²⁺ and Cd ²⁺ Based on Biomass Derived Lotus Root-Like Hierarchical Porous Carbon/Bismuth Composite. <i>Journal of the Electrochemical Society</i> , 2020, 167, 087505.	1.3	22
69	A facile lead acetate conversion process for synthesis of high-purity alpha-lead oxide derived from spent lead-acid batteries. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 88-97.	1.6	18
70	Rapid Electrochemical Assessment of the Lead Oxide Recovered from Spent Lead Pastes: A Case Study on the Effect of Iron and Antimony Doping. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2715-A2720.	1.3	0
71	Review on clean recovery of discarded/spent lead-acid battery and trends of recycled products. <i>Journal of Power Sources</i> , 2019, 436, 226853.	4.0	75
72	Synthesis of 3D hierarchically porous carbon@Bi-BiOCl nanocomposites via in situ generated NaCl crystals as templates for highly sensitive detection of Pb ²⁺ and Cd ²⁺ . <i>Electrochimica Acta</i> , 2019, 318, 460-470.	2.6	21

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73	The effects of aging for improving wastewater sludge electro-dewatering performances. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 647-655.	2.9	18
74	One-pot solvothermal synthesis of magnetic biochar from waste biomass: Formation mechanism and efficient adsorption of Cr(VI) in an aqueous solution. <i>Science of the Total Environment</i> , 2019, 695, 133886.	3.9	94
75	Effects of red mud on emission control of NO _x precursors during sludge pyrolysis: A protein model compound study. <i>Waste Management</i> , 2019, 85, 452-463.	3.7	50
76	Facile and Cost-Effective Approach for Copper Recovery from Waste Printed Circuit Boards via a Sequential Mechanochemical/Leaching/Recrystallization Process. <i>Environmental Science & Technology</i> , 2019, 53, 2748-2757.	4.6	54
77	Hydrothermal Conversion of Red Mud into Magnetic Adsorbent for Effective Adsorption of Zn(II) in Water. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1519.	1.3	11
78	Predicting the hormesis and toxicological interaction of mixtures by an improved inverse distance weighted interpolation. <i>Environment International</i> , 2019, 130, 104892.	4.8	18
79	Green Synthesis of Magnetic Adsorbent Using Groundwater Treatment Sludge for Tetracycline Adsorption. <i>Engineering</i> , 2019, 5, 880-887.	3.2	28
80	Role of Iron Impurity in Hydrometallurgical Recovery Process of Spent Lead-Acid Battery: Phase Transformation of Positive Material Made from Recovered Lead Oxide. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1715-A1724.	1.3	6
81	New insight into the formation of polyhalogenated carbazoles: Aqueous chlorination of residual carbazole under bromide condition in drinking water. <i>Water Research</i> , 2019, 159, 252-261.	5.3	43
82	A comparison between sulfuric acid and oxalic acid leaching with subsequent purification and precipitation for phosphorus recovery from sewage sludge incineration ash. <i>Water Research</i> , 2019, 159, 242-251.	5.3	92
83	Enhanced sludge dewatering via homogeneous and heterogeneous Fenton reactions initiated by Fe-rich biochar derived from sludge. <i>Chemical Engineering Journal</i> , 2019, 372, 966-977.	6.6	102
84	Investigation on emission control of NO _x precursors and phosphorus reclamation during pyrolysis of ferric sludge. <i>Science of the Total Environment</i> , 2019, 670, 932-940.	3.9	37
85	Enhanced detection of toxicity in wastewater using a 2D smooth anode based microbial fuel cell toxicity sensor. <i>RSC Advances</i> , 2019, 9, 8700-8706.	1.7	19
86	A green recycling process of the spent lead paste from discarded lead-acid battery by a hydrometallurgical process. <i>Waste Management and Research</i> , 2019, 37, 508-515.	2.2	12
87	Synergic degradation of 2,4,6-trichlorophenol in microbial fuel cells with intimately coupled photocatalytic-electrogenic anode. <i>Water Research</i> , 2019, 156, 125-135.	5.3	66
88	Correlation between oxidation-reduction potential values and sludge dewaterability during pre-oxidation. <i>Water Research</i> , 2019, 155, 96-105.	5.3	37
89	Comparison of Electrokinetic Remediation on Lead-Contaminated Kaolinite and Natural Soils. <i>Clean - Soil, Air, Water</i> , 2019, 47, 1800337.	0.7	8
90	Valorization of manganese-containing groundwater treatment sludge by preparing magnetic adsorbent for Cu(II) adsorption. <i>Journal of Environmental Management</i> , 2019, 236, 446-454.	3.8	39

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91	A micromilled microgrid sensor with delaminated MXene-bismuth nanocomposite assembly for simultaneous electrochemical detection of lead(II), cadmium(II) and zinc(II). <i>Mikrochimica Acta</i> , 2019, 186, 776.	2.5	42
92	A waste-minimized biorefinery scenario for the hierarchical conversion of agricultural straw into prebiotic xylooligosaccharides, fermentable sugars and lithium-sulfur batteries. <i>Industrial Crops and Products</i> , 2019, 129, 269-280.	2.5	33
93	Role of Fe species in geopolymer synthesized from alkali-thermal pretreated Fe-rich Bayer red mud. <i>Construction and Building Materials</i> , 2019, 200, 398-407.	3.2	116
94	A low-emission strategy to recover lead compound products directly from spent lead-acid battery paste: Key issue of impurities removal. <i>Journal of Cleaner Production</i> , 2019, 210, 1534-1544.	4.6	47
95	Mechano-chemical synthesis of high-stable PbO@C composite for enhanced performance of lead-carbon battery. <i>Electrochimica Acta</i> , 2019, 299, 682-691.	2.6	29
96	Effects of temperature variation on wastewater sludge electro-dewatering. <i>Journal of Cleaner Production</i> , 2019, 214, 873-880.	4.6	34
97	Enhanced Sludge Dewaterability and Pathogen Inactivation by Synergistic Effects of Zero-Valent Iron and Ozonation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 324-331.	3.2	41
98	Unraveling oxidation behaviors for intracellular and extracellular from different oxidants (HOCl vs.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> 60-69.	5.3	130
99	Recent advances in metalloporphyrins for environmental and energy applications. <i>Chemosphere</i> , 2019, 219, 617-635.	4.2	40
100	A bio-electro-Fenton system with a facile anti-biofouling air cathode for efficient degradation of landfill leachate. <i>Chemosphere</i> , 2019, 215, 173-181.	4.2	43
101	Enhanced Cr(VI) removal from acidic solutions using biochar modified by Fe ₃ O ₄ @SiO ₂ -NH ₂ particles. <i>Science of the Total Environment</i> , 2018, 628-629, 499-508.	3.9	242
102	Lead@Carbon Batteries: Synthesis of Nanostructured PbO@C Composite Derived from Spent Lead-Acid Battery for Next-Generation Lead@Carbon Battery (Adv. Funct. Mater. 9/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870056.	7.8	5
103	Synthesis of Nanostructured PbO@C Composite Derived from Spent Lead-Acid Battery for Next-Generation Lead@Carbon Battery. <i>Advanced Functional Materials</i> , 2018, 28, 1705294.	7.8	45
104	An Emission-Free Vacuum Chlorinating Process for Simultaneous Sulfur Fixation and Lead Recovery from Spent Lead-Acid Batteries. <i>Environmental Science & Technology</i> , 2018, 52, 2235-2241.	4.6	61
105	Citric acid assisted Fenton-like process for enhanced dewaterability of waste activated sludge with in-situ generation of hydrogen peroxide. <i>Water Research</i> , 2018, 140, 232-242.	5.3	127
106	Enhanced hydrogen production in catalytic pyrolysis of sewage sludge by red mud: Thermogravimetric kinetic analysis and pyrolysis characteristics. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 7795-7807.	3.8	65
107	Comparison of clogging induced by organic and inorganic suspended particles in a porous medium: implications for choosing physical clogging indicators. <i>Journal of Soils and Sediments</i> , 2018, 18, 2980-2994.	1.5	22
108	Cross-linked chitosan/ β -2-cyclodextrin composite for selective removal of methyl orange: Adsorption performance and mechanism. <i>Carbohydrate Polymers</i> , 2018, 182, 106-114.	5.1	195

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109	Facile preparation of flower-like NiMn layered double hydroxide/reduced graphene oxide microsphere composite for high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 730, 71-80.	2.8	96
110	Enhanced visible-light driven photocatalytic activity of hybrid ZnO/g-C ₃ N ₄ by high performance ball milling. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 350, 1-9.	2.0	48
111	Activated microporous-mesoporous carbon derived from chestnut shell as a sustainable anode material for high performance microbial fuel cells. <i>Bioresource Technology</i> , 2018, 249, 567-573.	4.8	98
112	Kinetic simulation and prediction of pyrolysis process for non-metallic fraction of waste printed circuit boards by discrete distributed activation energy model compared with isoconversional method. <i>Environmental Science and Pollution Research</i> , 2018, 25, 3636-3646.	2.7	31
113	Different transport behaviors of <i>Bacillus subtilis</i> cells and spores in saturated porous media: Implications for contamination risks associated with bacterial sporulation in aquifer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 35-42.	2.5	14
114	Reuse of Ni-Co-Mn oxides from spent Li-ion batteries to prepare bifunctional air electrodes. <i>Resources, Conservation and Recycling</i> , 2018, 129, 135-142.	5.3	38
115	Simulation on flow field and gas hold-up of a pilot-scale oxidation ditch by using liquid-gas CFD model. <i>Water Science and Technology</i> , 2018, 78, 1956-1965.	1.2	5
116	Synthesis of the PbS Dendritic Nanostructure Recovered from a Spent Lead-Acid Battery via an Integrated Vacuum Chlorinating and Hydrothermal Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17333-17339.	3.2	18
117	Visible Light Driven Organic Pollutants Degradation with Hydrothermally Carbonized Sewage Sludge and Oxalate Via Molecular Oxygen Activation. <i>Environmental Science & Technology</i> , 2018, 52, 12656-12666.	4.6	89
118	Recent Advances and Perspective on Design and Synthesis of Electrode Materials for Electrochemical Sensing of Heavy Metals. <i>Energy and Environmental Materials</i> , 2018, 1, 113-131.	7.3	39
119	Influence of Proteins on Transport of Ferrihydrite Particles Formed during Recharge of Groundwater Containing Fe with Reclaimed Water. <i>Water (Switzerland)</i> , 2018, 10, 1329.	1.2	2
120	Stabilization and Mineralization Mechanism of Cd with Cu-Loaded Attapulgite Stabilizer Assisted with Microwave Irradiation. <i>Environmental Science & Technology</i> , 2018, 52, 12624-12632.	4.6	18
121	Thiol-Functionalized Zr-Based Metal-Organic Framework for Capture of Hg(II) through a Proton Exchange Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8494-8502.	3.2	140
122	Networked Cages for Enhanced CO ₂ Capture and Sensing. <i>Advanced Science</i> , 2018, 5, 1800141.	5.6	65
123	Hydrothermal synthesis of a magnetic adsorbent from wasted iron mud for effective removal of heavy metals from smelting wastewater. <i>Environmental Science and Pollution Research</i> , 2018, 25, 22710-22724.	2.7	30
124	In situ generation of zero valent iron for enhanced hydroxyl radical oxidation in an electrooxidation system for sewage sludge dewatering. <i>Water Research</i> , 2018, 145, 162-171.	5.3	64
125	Effects of Piecewise Electric Field Operation on Sludge Dewatering: Phenomena and Mathematical Model. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12468-12477.	1.8	15
126	Insights on Relationship between Deterioration and Direct-Current Internal Resistance of Valve Regulated Lead-Acid Battery by Addition of Granular Carbon Additives under HRPSOC Duty. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1753-A1760.	1.3	3

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127	Improving bromine fixation in co-pyrolysis of non-metallic fractions of waste printed circuit boards with Bayer red mud. <i>Science of the Total Environment</i> , 2018, 639, 1553-1559.	3.9	58
128	Synthesis and characterization of a magnetic adsorbent from negatively-valued iron mud for methylene blue adsorption. <i>PLoS ONE</i> , 2018, 13, e0191229.	1.1	27
129	Electrocatalytic activity of lithium polysulfides adsorbed into porous TiO ₂ coated MWCNTs hybrid structure for lithium-sulfur batteries. <i>Scientific Reports</i> , 2017, 7, 40679.	1.6	26
130	Support-dependent active species formation for CuO catalysts: Leading to efficient pollutant degradation in alkaline conditions. <i>Journal of Hazardous Materials</i> , 2017, 328, 56-62.	6.5	34
131	Aerobic granular sludge inoculated microbial fuel cells for enhanced epoxy reactive diluent wastewater treatment. <i>Bioresource Technology</i> , 2017, 229, 126-133.	4.8	17
132	Lamellar mesoporous carbon derived from bagasse for the cathode materials of lithium-sulfur batteries. <i>RSC Advances</i> , 2017, 7, 13595-13603.	1.7	10
133	Study on dewaterability limit and energy consumption in sewage sludge electro-dewatering by in-situ linear sweep voltammetry analysis. <i>Chemical Engineering Journal</i> , 2017, 317, 980-987.	6.6	51
134	Direct reuse of two deep-dewatered sludge cakes without a solidifying agent as landfill cover: geotechnical properties and heavy metal leaching characteristics. <i>RSC Advances</i> , 2017, 7, 3823-3830.	1.7	7
135	Extracellular polymeric substances and sludge solid/liquid separation under <i>Moringa oleifera</i> and chitosan conditioning: a review. <i>Environmental Technology Reviews</i> , 2017, 6, 59-73.	2.1	5
136	Molybdenum-Tungsten Mixed Oxide Deposited into Titanium Dioxide Nanotube Arrays for Ultrahigh Rate Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18699-18709.	4.0	30
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