

Hui Wang

List of Publications by Year in descending order

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108
papers

2,954
citations

159358

30
h-index

214527

47
g-index

109
all docs

109
docs citations

109
times ranked

1990
citing authors

#	ARTICLE	IF	CITATIONS
1	Flotation separation of waste plastics for recyclingâ€”A review. <i>Waste Management</i> , 2015, 41, 28-38.	3.7	172
2	Liberation characteristic and physical separation of printed circuit board (PCB). <i>Waste Management</i> , 2011, 31, 2161-2166.	3.7	113
3	Biochar/MnAl-LDH composites for Cu (II) removal from aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 443-450.	2.3	90
4	Pb(II) sorption from aqueous solution by novel biochar loaded with nano-particles. <i>Chemosphere</i> , 2018, 192, 1-4.	4.2	88
5	Surface modification and selective flotation of waste plastics for effective recyclingâ€”a review. <i>Separation and Purification Technology</i> , 2019, 226, 75-94.	3.9	87
6	Pb(II) sorption by biochar derived from <i>Cinnamomum camphora</i> and its improvement with ultrasound-assisted alkali activation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 556, 177-184.	2.3	80
7	Separation of polyethylene terephthalate from municipal waste plastics by froth flotation for recycling industry. <i>Waste Management</i> , 2015, 35, 42-47.	3.7	78
8	Superior fenton-like degradation of tetracycline by iron loaded graphitic carbon derived from microplastics: Synthesis, catalytic performance, and mechanism. <i>Separation and Purification Technology</i> , 2021, 270, 118773.	3.9	71
9	A critical review of control and removal strategies for microplastics from aquatic environments. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105463.	3.3	70
10	Ultrasound-assisted xanthation of cellulose from lignocellulosic biomass optimized by response surface methodology for Pb(II) sorption. <i>Carbohydrate Polymers</i> , 2018, 182, 21-28.	5.1	64
11	Copper-based catalyst from waste printed circuit boards for effective Fenton-like discoloration of Rhodamine B at neutral pH. <i>Chemosphere</i> , 2019, 230, 278-285.	4.2	58
12	Fenton treatment for flotation separation of polyvinyl chloride from plastic mixtures. <i>Separation and Purification Technology</i> , 2017, 187, 415-425.	3.9	57
13	Carboxyl functionalized <i>Cinnamomum camphora</i> for removal of heavy metals from synthetic wastewater-contribution to sustainability in agroforestry. <i>Journal of Cleaner Production</i> , 2018, 184, 921-928.	4.6	57
14	Surface treatment with Fenton for separation of acrylonitrile-butadiene-styrene and polyvinylchloride waste plastics by flotation. <i>Waste Management</i> , 2017, 67, 20-26.	3.7	54
15	Application of dissolved air flotation on separation of waste plastics ABS and PS. <i>Waste Management</i> , 2012, 32, 1297-1305.	3.7	52
16	Flotation separation of polyvinyl chloride and polyethylene terephthalate plastics combined with surface modification for recycling. <i>Waste Management</i> , 2015, 45, 112-117.	3.7	49
17	Separation of hazardous polyvinyl chloride from waste plastics by flotation assisted with surface modification of ammonium persulfate: Process and mechanism. <i>Journal of Hazardous Materials</i> , 2020, 389, 121918.	6.5	47
18	Is it possible to efficiently and sustainably remove microplastics from sediments using froth flotation?. <i>Chemical Engineering Journal</i> , 2022, 448, 137692.	6.6	47

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19	Flotability and flotation separation of polymer materials modulated by wetting agents. <i>Waste Management</i> , 2014, 34, 309-315.	3.7	46
20	A novel process for separation of hazardous poly(vinyl chloride) from mixed plastic wastes by froth flotation. <i>Waste Management</i> , 2017, 69, 59-65.	3.7	45
21	Waste printed circuit boards as novel potential engineered catalyst for catalytic degradation of orange II. <i>Journal of Cleaner Production</i> , 2019, 221, 234-241.	4.6	44
22	Separation of polycarbonate and acrylonitrile-butadiene-styrene waste plastics by froth flotation combined with ammonia pretreatment. <i>Waste Management</i> , 2014, 34, 2656-2661.	3.7	43
23	Ammonia modification for flotation separation of polycarbonate and polystyrene waste plastics. <i>Waste Management</i> , 2016, 51, 13-18.	3.7	43
24	Boiling treatment of ABS and PS plastics for flotation separation. <i>Waste Management</i> , 2014, 34, 1206-1210.	3.7	40
25	Optimization of surface treatment for flotation separation of polyvinyl chloride and polyethylene terephthalate waste plastics using response surface methodology. <i>Journal of Cleaner Production</i> , 2016, 139, 866-872.	4.6	37
26	Corrosion resistance of lamellar aluminium pigments coated by SiO ₂ by sol-gel method. <i>Corrosion Science</i> , 2011, 53, 161-167.	3.0	36
27	Water-compatible halloysite-imprinted polymer by Pickering emulsion polymerization for the selective recognition of herbicides. <i>Journal of Separation Science</i> , 2015, 38, 1365-1371.	1.3	34
28	Wetting behavior and mechanism of wetting agents on low-energy surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 424, 10-17.	2.3	33
29	Application of functionalized layered double hydroxides for heavy metal removal: A review. <i>Science of the Total Environment</i> , 2022, 838, 155693.	3.9	33
30	Surface Reactions in Selective Modification: The Prerequisite for Plastic Flotation. <i>Environmental Science & Technology</i> , 2020, 54, 9742-9756.	4.6	32
31	Floatability of polymer materials modulated by frothers. <i>Waste Management</i> , 2013, 33, 2623-2631.	3.7	31
32	Green flotation of polyethylene terephthalate and polyvinyl chloride assisted by surface modification of selective CaCO ₃ coating. <i>Journal of Cleaner Production</i> , 2020, 242, 118441.	4.6	31
33	Surface treatment using potassium ferrate for separation of polycarbonate and polystyrene waste plastics by froth flotation. <i>Applied Surface Science</i> , 2018, 448, 219-229.	3.1	30
34	Adsorption of rhodamine B on polyvinyl chloride, polystyrene, and polyethylene terephthalate microplastics in aqueous environments. <i>Environmental Technology and Innovation</i> , 2022, 27, 102495.	3.0	30
35	Separation of polyvinyl chloride from waste plastic mixtures by froth flotation after surface modification with sodium persulfate. <i>Journal of Cleaner Production</i> , 2019, 218, 167-172.	4.6	28
36	Optimization of Surface Treatment Using Sodium Hypochlorite Facilitates Coseparation of ABS and PC from WEEE Plastics by Flotation. <i>Environmental Science & Technology</i> , 2019, 53, 2086-2094.	4.6	28

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37	Is froth flotation a potential scheme for microplastics removal? Analysis on flotation kinetics and surface characteristics. <i>Science of the Total Environment</i> , 2021, 792, 148345.	3.9	28
38	Separation of aluminum and plastic by metallurgy method for recycling waste pharmaceutical blisters. <i>Journal of Cleaner Production</i> , 2015, 102, 378-383.	4.6	27
39	The flotation separation of pyrite from pyrophyllite using oxidized guar gum as depressant. <i>International Journal of Mineral Processing</i> , 2017, 161, 78-82.	2.6	27
40	Unique metalloid uptake on microplastics: The interaction between boron and microplastics in aquatic environment. <i>Science of the Total Environment</i> , 2021, 800, 149668.	3.9	26
41	Crushing performance and resource characteristic of printed circuit board scrap. <i>Central South University</i> , 2005, 12, 552-555.	0.5	25
42	Flotation mechanisms of molybdenite fines by neutral oils. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018, 25, 1-10.	2.4	25
43	Carbonyl-Incorporated Aromatic Hyper-Cross-Linked Polymers with Microporous Structure and Their Functional Materials for CO ₂ Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15955-15966.	1.8	25
44	Behavior of magnetic Fe ₃ O ₄ nano-particles in magnetically assisted gas-fluidized beds. <i>Advanced Powder Technology</i> , 2011, 22, 427-432.	2.0	24
45	Interfacial interactions between plastic particles in plastics flotation. <i>Waste Management</i> , 2015, 46, 56-61.	3.7	24
46	Recovery of molybdenum and copper from porphyry ore via iso-flotability flotation. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 2260-2271.	1.7	24
47	Model of estimating nano-particle agglomerate sizes in a vibro-fluidized bed. <i>Advanced Powder Technology</i> , 2013, 24, 311-316.	2.0	23
48	Separation of polyvinylchloride and acrylonitrile-butadiene-styrene combining advanced oxidation by S ₂ O ₈ ²⁻ /Fe ²⁺ system and flotation. <i>Waste Management</i> , 2019, 91, 80-88.	3.7	23
49	Effects of additives on PVC plastics surface and the natural flotability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 544-548.	2.3	22
50	A novel process for separation of polycarbonate, polyvinyl chloride and polymethyl methacrylate waste plastics by froth flotation. <i>Waste Management</i> , 2017, 65, 3-10.	3.7	22
51	Flotation separation of polyethylene terephthalate from waste packaging plastics through ethylene glycol pretreatment assisted by sonication. <i>Waste Management</i> , 2020, 105, 309-316.	3.7	21
52	Insight into the effect of aqueous species on microplastics removal by froth flotation: Kinetics and mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107834.	3.3	21
53	Heterogeneous Fenton degradation of persistent organic pollutants using natural chalcopyrite: effect of water matrix and catalytic mechanism. <i>Environmental Science and Pollution Research</i> , 2022, 29, 75651-75663.	2.7	21
54	Separation of manganese from calcium and magnesium in sulfate solutions via carbonate precipitation. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1118-1125.	1.7	20

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55	Enhanced adsorption of Ag ⁺ on triethanolamine modified titanate nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 537, 28-35.	2.3	20
56	Application of surface modification using sodium hypochlorite for helping flotation separation of acrylonitrile-butadiene-styrene and polystyrene plastics of WEEE. <i>Waste Management</i> , 2018, 82, 167-176.	3.7	20
57	Separation of acrylonitrile-butadiene-styrene and polystyrene waste plastics after surface modification using potassium ferrate by froth flotation. <i>Waste Management</i> , 2018, 78, 829-840.	3.7	20
58	Flotation separation of acrylonitrile-butadiene-styrene and polystyrene in WEEE based on oxidation of active sites. <i>Minerals Engineering</i> , 2020, 146, 106131.	1.8	20
59	Application of froth flotation in the separation of polyvinyl chloride and polycarbonate for recycling of waste plastic based on a novel surface modification. <i>Waste Management</i> , 2020, 110, 43-52.	3.7	19
60	Preparation of manganese sulfate from low-grade manganese carbonate ores by sulfuric acid leaching. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 491-500.	2.4	18
61	Understanding the high adsorption-reduction performance of triethanolamine modified graphene oxide for silver ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 567, 96-103.	2.3	18
62	Insights into Mechanism of Hypochlorite-Induced Functionalization of Polymers toward Separating BFR-Containing Components from Microplastics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36755-36767.	4.0	18
63	In situ Fe ₃ O ₄ nanoparticles coating of polymers for separating hazardous PVC from microplastic mixtures. <i>Chemical Engineering Journal</i> , 2021, 407, 127170.	6.6	17
64	Purification of Pb (II) ions from aqueous solution by camphor leaf modified with succinic anhydride. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 509, 80-85.	2.3	16
65	Surface treatment by the Fe(III)/sulfite system for flotation separation of hazardous chlorinated plastics from the mixed waste plastics. <i>Journal of Hazardous Materials</i> , 2019, 377, 34-41.	6.5	16
66	Ultrasonic improvement of catalytic decomposition of Rhodamine B in simulated wastewater by functional waste printed circuit boards via thermochemical conversion. <i>Journal of Cleaner Production</i> , 2020, 253, 119921.	4.6	16
67	Flotation separation of polystyrene and polyvinyl chloride based on heterogeneous catalytic Fenton and green synthesis of nanoscale zero valent iron (GnZVI). <i>Journal of Cleaner Production</i> , 2020, 267, 122116.	4.6	16
68	Potential control flotation of galena in strong alkaline media. <i>Central South University</i> , 2002, 9, 16-20.	0.5	15
69	Modified adsorbent hydroxypropyl cellulose xanthate for removal of Cu ²⁺ and Ni ²⁺ from aqueous solution. <i>Desalination and Water Treatment</i> , 2016, 57, 27419-27431.	1.0	15
70	Hydrophilic modification of polycarbonate surface with surface alkoxylation pretreatment for efficient separation of polycarbonate and polystyrene by froth flotation. <i>Waste Management</i> , 2020, 118, 471-480.	3.7	15
71	Microwave-assisted surface modification for the separation of polycarbonate from polymethylmethacrylate and polyvinyl chloride waste plastics by flotation. <i>Waste Management and Research</i> , 2017, 35, 294-300.	2.2	14
72	Galvanic coupling and its effect on origin potential flotation system of sulfide minerals. <i>Central South University</i> , 2004, 11, 275-279.	0.5	13

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73	Kinetics and leaching behaviors of aluminum from pharmaceutical blisters in sodium hydroxide solution. <i>Journal of Central South University</i> , 2015, 22, 4545-4550.	1.2	13
74	Separation of waste polymethyl methacrylate and polyvinyl chloride mixtures by flotation after Fenton oxidation. <i>Journal of Cleaner Production</i> , 2019, 228, 1218-1228.	4.6	13
75	Flotation separation of hazardous polyvinyl chloride towards source control of microplastics based on selective hydrophilization of plasticizer-doping surfaces. <i>Journal of Hazardous Materials</i> , 2022, 423, 127095.	6.5	13
76	Interfacial interaction of bio-leaching of pyrite mineral. <i>Central South University</i> , 2008, 15, 49-53.	0.5	12
77	Combination of sodium hypochlorite pretreatment and flotation towards separation of polycarbonate from waste plastic mixtures. <i>Waste Management</i> , 2019, 99, 112-121.	3.7	12
78	Ultrasound assisted Fenton-like degradation of dyes using copper doped graphitic carbon nitride. <i>Water Science and Technology</i> , 2021, 84, 1146-1158.	1.2	12
79	Application of two modified kaolin materials in removing micro-plastics from water. <i>Journal of Material Cycles and Waste Management</i> , 2022, 24, 1460-1475.	1.6	12
80	Stepwise flotation separation of WEEE plastics by polymeric aluminum chloride towards source control of microplastics. <i>Waste Management</i> , 2022, 149, 1-10.	3.7	12
81	A clean and efficient flotation towards recovery of hazardous polyvinyl chloride and polycarbonate microplastics through selective aluminum coating: Process, mechanism, and optimization. <i>Journal of Environmental Management</i> , 2021, 299, 113626.	3.8	11
82	Study of the interfacial interactions in the molybdenite floatation system. <i>Mining Science and Technology</i> , 2008, 18, 82-87.	0.8	10
83	Study on the Polyurethane Concrete for the Rapid Repairment of Highway Pavement. <i>Applied Mechanics and Materials</i> , 0, 193-194, 762-769.	0.2	10
84	Sorption of Cd(II) ion by lignocellulose biomass from leaves of camphor tree. , 0, 68, 211-219.		10
85	Surface alcoholysis induced by alkali-activation ethanol: A novel scheme for binary flotation of polyethylene terephthalate from other plastics. <i>Journal of Cleaner Production</i> , 2021, 314, 128096.	4.6	9
86	The exothermic $\text{HCl} + \text{OH}^{\cdot}(\text{H}_2\text{O})$ reaction: Removal of the $\text{HCl} + \text{OH}$ barrier by a single water molecule. <i>Journal of Chemical Physics</i> , 2014, 140, 124316.	1.2	8
87	Original potential flotation of galena and its industrial application. <i>Central South University</i> , 2002, 9, 91-94.	0.5	7
88	Efficient combined method of selective dissolution and evaporation for recycling waste polyvinylbutyral films. <i>Plastics, Rubber and Composites</i> , 2012, 41, 8-12.	0.9	7
89	Surface treatment with peroxymonosulfate for flotation separation of waste polyvinylchloride and acrylonitrile-butadiene-styrene: Optimization and mechanism. <i>Journal of Cleaner Production</i> , 2020, 275, 124158.	4.6	7
90	Extraction process of chlorogenic acid in flos <i>Lonicerae</i> by enzymatic treatment. <i>Central South University</i> , 2002, 9, 246-249.	0.5	6

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91	Preparation of chemical manganese dioxide from manganese sulfate. Mining Science and Technology, 2010, 20, 877-881.	0.3	6
92	Treatment mechanism of chromium-containing wastewater with carbonate minerals. Desalination and Water Treatment, 2013, 51, 5444-5450.	1.0	6
93	Adsorption of Toxic Zinc by Functionalized Lignocellulose Derived from Waste Biomass: Kinetics, Isotherms and Thermodynamics. Sustainability, 2021, 13, 10673.	1.6	6
94	Synthesis and characterization of MgSO ₄ ·5Mg(OH) ₂ ·2H ₂ O flake powders. Central South University, 2011, 18, 1871-1876.	0.5	5
95	Study on jet aeration oxidation of magnesium sulfite from magnesium-based exhaust gas cleaning system. Environmental Technology (United Kingdom), 2017, 39, 1-10.	1.2	5
96	Optimizing green ferrate (VI) modification towards flotation separation of waste polyvinylchloride and acrylonitrile-butadiene-styrene mixtures. Waste Management, 2020, 101, 83-93.	3.7	5
97	An effective approach for improving flotation recovery of molybdenite fines from a finely-disseminated molybdenum ore. Journal of Central South University, 2018, 25, 1326-1339.	1.2	4
98	Pb(II) removal from aqueous solution by cold KOH activated biochar of camphor leaves: isotherms, kinetics and thermodynamics. , 0, 161, 327-336.		4
99	Removal of dianiline dithiophosphoric acid from wastewater by chelate precipitation. Desalination and Water Treatment, 2016, 57, 5100-5107.	1.0	3
100	Performance of C/C electric double layer capacitors with coal-based active carbon electrodes. Ionics, 2016, 22, 695-699.	1.2	3
101	$I + (H_{2}O)_{2} \rightleftharpoons HI + (H_{2}O)OH$ Forward and Reverse Reactions. CCSD(T) Studies Including Spin-Orbit Coupling. Journal of Physical Chemistry B, 2016, 120, 1743-1748.	1.2	3
102	The Reaction between Bromine and the Water Dimer and the Highly Exothermic Reverse Reaction. Journal of Computational Chemistry, 2016, 37, 177-182.	1.5	3
103	Structures and properties of the potassium-doped carbon clusters K _n /K _n ⁺ /K _n ⁻ (n = 1~10). European Physical Journal D, 2014, 68, 1.	0.6	2
104	Recovery a Refractory Oolitic Hematite by Magnetization Roasting and Magnetic Separation. Advanced Materials Research, 2011, 361-363, 305-310.	0.3	1
105	Extracting Plasticizer from Polyvinylbutyral Plastics by Supercritical Fluid. Advanced Materials Research, 0, 550-553, 908-913.	0.3	1
106	Agglomerating fluidization of nanoparticles in the vibration or magnetic field. , 2013, , .		1
107	Research on Surface Modification Technology of Water-Based Aluminum Powder Pigment. Lecture Notes in Electrical Engineering, 2021, , 573-579.	0.3	0
108	Selenium resources from the Wolverine deposit, Canada. WIT Transactions on Ecology and the Environment, 2013, , .	0.0	0