Hui Wang

List of Publications by Citations

103 papers	1,795 citations	25 h-index	37 g-index
109 ext. papers	2,315 ext. citations	7 avg, IF	5.67 L-index

#	Paper	IF	Citations
103	Flotation separation of waste plastics for recycling-A review. *Waste Management*, **2015**, 41, 28-38	8.6	122
102	Liberation characteristic and physical separation of printed circuit board (PCB). *Waste Management*, **2011**, 31, 2161-6	8.6	87
101	Separation of polyethylene terephthalate from municipal waste plastics by froth flotation for recycling industry. *Waste Management*, **2015**, 35, 42-7	8.6	69
100	Pb(II) sorption from aqueous solution by novel biochar loaded with nano-particles. *Chemosphere*, **2018**, 192, 1-4	8.4	64
99	Biochar/MnAl-LDH composites for Cu (□removal from aqueous solution. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 538, 443-450	5.1	59
98	Pb(II) sorption by biochar derived from Cinnamomum camphora and its improvement with ultrasound-assisted alkali activation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 556, 177-184	5.1	52
97	Surface modification and selective flotation of waste plastics for effective recycling□ review. *Separation and Purification Technology*, **2019**, 226, 75-94	8.3	48
96	Application of dissolved air flotation on separation of waste plastics ABS and PS. *Waste Management*, **2012**, 32, 1297-305	8.6	46
95	Ultrasound-assisted xanthation of cellulose from lignocellulosic biomass optimized by response surface methodology for Pb(II) sorption. *Carbohydrate Polymers*, **2018**, 182, 21-28	10.3	45
94	Fenton treatment for flotation separation of polyvinyl chloride from plastic mixtures. *Separation and Purification Technology*, **2017**, 187, 415-425	8.3	44
93	Carboxyl functionalized Cinnamomum camphora for removal of heavy metals from synthetic wastewater-contribution to sustainability in agroforestry. *Journal of Cleaner Production*, **2018**, 184, 921-928	10.3	41
92	Flotation separation of polyvinyl chloride and polyethylene terephthalate plastics combined with surface modification for recycling. *Waste Management*, **2015**, 45, 112-7	8.6	40
91	Surface treatment with Fenton for separation of acrylonitrile-butadiene-styrene and polyvinylchloride waste plastics by flotation. *Waste Management*, **2017**, 67, 20-26	8.6	37
90	Separation of polycarbonate and acrylonitrile-butadiene-styrene waste plastics by froth flotation combined with ammonia pretreatment. *Waste Management*, **2014**, 34, 2656-61	8.6	37
89	A novel process for separation of hazardous poly(vinyl chloride) from mixed plastic wastes by froth flotation. *Waste Management*, **2017**, 69, 59-65	8.6	34
88	Boiling treatment of ABS and PS plastics for flotation separation. *Waste Management*, **2014**, 34, 1206-10	8.6	34
87	Separation of hazardous polyvinyl chloride from waste plastics by flotation assisted with surface modification of ammonium persulfate: Process and mechanism. *Journal of Hazardous Materials*, **2020**, 389, 121918	12.8	33

86	Corrosion resistance of lamellar aluminium pigments coated by SiO2 by sol-gel method. *Corrosion Science*, **2011**, 53, 161-167	6.8	32
85	Ammonia modification for flotation separation of polycarbonate and polystyrene waste plastics. *Waste Management*, **2016**, 51, 13-18	8.6	32
84	Copper-based catalyst from waste printed circuit boards for effective Fenton-like discoloration of Rhodamine B at neutral pH. *Chemosphere*, **2019**, 230, 278-285	8.4	31
83	Flotability and flotation separation of polymer materials modulated by wetting agents. *Waste Management*, **2014**, 34, 309-15	8.6	30
82	Water-compatible halloysite-imprinted polymer by Pickering emulsion polymerization for the selective recognition of herbicides. *Journal of Separation Science*, **2015**, 38, 1365-71	3.4	30
81	Waste printed circuit boards as novel potential engineered catalyst for catalytic degradation of orange II. *Journal of Cleaner Production*, **2019**, 221, 234-241	10.3	30
80	Floatability of polymer materials modulated by frothers. *Waste Management*, **2013**, 33, 2623-31	8.6	29
79	Optimization of surface treatment for flotation separation of polyvinyl chloride and polyethylene terephthalate waste plastics using response surface methodology. *Journal of Cleaner Production*, **2016**, 139, 866-872	10.3	26
78	Wetting behavior and mechanism of wetting agents on low-energy surface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 424, 10-17	5.1	24
77	The flotation separation of pyrite from pyrophyllite using oxidized guar gum as depressant. *International Journal of Mineral Processing*, **2017**, 161, 78-82		21
76	Surface treatment using potassium ferrate for separation of polycarbonate and polystyrene waste plastics by froth flotation. *Applied Surface Science*, **2018**, 448, 219-229	6.7	21
75	Separation of polyvinyl chloride from waste plastic mixtures by froth flotation after surface modification with sodium persulfate. *Journal of Cleaner Production*, **2019**, 218, 167-172	10.3	20
74	Model of estimating nano-particle agglomerate sizes in a vibro-fluidized bed. *Advanced Powder Technology*, **2013**, 24, 311-316	4.6	20
73	Crushing performance and resource characteristic of printed circuit board scrap. *Central South University*, **2005**, 12, 552-555		20
72	Optimization of Surface Treatment Using Sodium Hypochlorite Facilitates Coseparation of ABS and PC from WEEE Plastics by Flotation. *Environmental Science & Technology*, **2019**, 53, 2086-2094	10.3	20
71	Effects of additives on PVC plastics surface and the natural flotability. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 441, 544-548	5.1	19
70	Behavior of magnetic Fe3O4 nano-particles in magnetically assisted gas-fluidized beds. *Advanced Powder Technology*, **2011**, 22, 427-432	4.6	19
69	Flotation mechanisms of molybdenite fines by neutral oils. *International Journal of Minerals, Metallurgy and Materials*, **2018**, 25, 1-10	3.1	17

68	Superior fenton-like degradation of tetracycline by iron loaded graphitic carbon derived from microplastics: Synthesis, catalytic performance, and mechanism. *Separation and Purification Technology*, **2021**, 270, 118773	8.3	17
67	Separation of polyvinylchloride and acrylonitrile-butadiene-styrene combining advanced oxidation by SO/Fe system and flotation. *Waste Management*, **2019**, 91, 80-88	8.6	15
66	Recovery of molybdenum and copper from porphyry ore via iso-flotability flotation. *Transactions of Nonferrous Metals Society of China*, **2017**, 27, 2260-2271	3.3	15
65	Separation of manganese from calcium and magnesium in sulfate solutions via carbonate precipitation. *Transactions of Nonferrous Metals Society of China*, **2016**, 26, 1118-1125	3.3	15
64	Purification of Pb (II) ions from aqueous solution by camphor leaf modified with succinic anhydride. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 509, 80-85	5.1	15
63	Application of surface modification using sodium hypochlorite for helping flotation separation of acrylonitrile-butadiene-styrene and polystyrene plastics of WEEE. *Waste Management*, **2018**, 82, 167-176	8.6	15
62	Flotation separation of polyethylene terephthalate from waste packaging plastics through ethylene glycol pretreatment assisted by sonication. *Waste Management*, **2020**, 105, 309-316	8.6	14
61	Separation of aluminum and plastic by metallurgy method for recycling waste pharmaceutical blisters. *Journal of Cleaner Production*, **2015**, 102, 378-383	10.3	14
60	Green flotation of polyethylene terephthalate and polyvinyl chloride assisted by surface modification of selective CaCO3 coating. *Journal of Cleaner Production*, **2020**, 242, 118441	10.3	14
59	A novel process for separation of polycarbonate, polyvinyl chloride and polymethyl methacrylate waste plastics by froth flotation. *Waste Management*, **2017**, 65, 3-10	8.6	13
58	Enhanced adsorption of Ag+ on triethanolamine modified titanate nanotubes. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 537, 28-35	5.1	13
57	Preparation of manganese sulfate from low-grade manganese carbonate ores by sulfuric acid leaching. *International Journal of Minerals, Metallurgy and Materials*, **2016**, 23, 491-500	3.1	13
56	Surface treatment by the Fe(III)/sulfite system for flotation separation of hazardous chlorinated plastics from the mixed waste plastics. *Journal of Hazardous Materials*, **2019**, 377, 34-41	12.8	12
55	Interfacial interactions between plastic particles in plastics flotation. *Waste Management*, **2015**, 46, 56-68	8.6	12
54	Flotation separation of acrylonitrile-butadiene-styrene and polystyrene in WEEE based on oxidation of active sites. *Minerals Engineering*, **2020**, 146, 106131	4.9	12
53	Potential control flotation of galena in strong alkaline media. *Central South University*, **2002**, 9, 16-20		11
52	Ultrasonic improvement of catalytic decomposition of Rhodamine B in simulated wastewater by functional waste printed circuit boards via thermochemical conversion. *Journal of Cleaner Production*, **2020**, 253, 119921	10.3	11
51	Understanding the high adsorption-reduction performance of triethanolamine modified graphene oxide for silver ions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 567, 96-103	5.1	10

50	Separation of waste polymethyl methacrylate and polyvinyl chloride mixtures by flotation after Fenton oxidation. *Journal of Cleaner Production*, **2019**, 228, 1218-1228	10.3	10
49	Application of froth flotation in the separation of polyvinyl chloride and polycarbonate for recycling of waste plastic based on a novel surface modification. *Waste Management*, **2020**, 110, 43-52	8.6	10
48	Study of the interfacial interactions in the molybdenite floatation system. *Mining Science and Technology*, **2008**, 18, 82-87		10
47	Surface Reactions in Selective Modification: The Prerequisite for Plastic Flotation. *Environmental Science & Technology*, **2020**, 54, 9742-9756	10.3	10
46	Flotation separation of polystyrene and polyvinyl chloride based on heterogeneous catalytic Fenton and green synthesis of nanoscale zero valent iron (GnZVI). *Journal of Cleaner Production*, **2020**, 267, 122116	10.3	9
45	Interfacial interaction of bio-leaching of pyrite mineral. *Central South University*, **2008**, 15, 49-53		9
44	Galvanic coupling and its effect on origin potential flotation system of sulfide minerals. *Central South University*, **2004**, 11, 275-279		9
43	A critical review of control and removal strategies for microplastics from aquatic environments. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105463	6.8	9
42	The exothermic HCl + OH□(H2O) reaction: removal of the HCl + OH barrier by a single water molecule. *Journal of Chemical Physics*, **2014**, 140, 124316	3.9	8
41	Sorption of Cd(II) ion by lignocellulose biomass from leaves of camphor tree68, 211-219		8
40	Modified adsorbent hydroxypropyl cellulose xanthate for removal of Cu2+ and Ni2+ from aqueous solution. *Desalination and Water Treatment*, **2016**, 57, 27419-27431		7
39	Separation of acrylonitrile-butadiene-styrene and polystyrene waste plastics after surface modification using potassium ferrate by froth flotation. *Waste Management*, **2018**, 78, 829-840	8.6	7
38	Kinetics and leaching behaviors of aluminum from pharmaceutical blisters in sodium hydroxide solution. *Journal of Central South University*, **2015**, 22, 4545-4550	2.1	7
37	Study on the Polyurethane Concrete for the Rapid Repairment of Highway Pavement. *Applied Mechanics and Materials*, **2012**, 193-194, 762-769	0.3	7
36	Insights into Mechanism of Hypochlorite-Induced Functionalization of Polymers toward Separating BFR-Containing Components from Microplastics. *ACS Applied Materials & Interfaces*, **2020**, 12, 36755-36767	9.5	6
35	Microwave-assisted surface modification for the separation of polycarbonate from polymethylmethacrylate and polyvinyl chloride waste plastics by flotation. *Waste Management and Research*, **2017**, 35, 294-300	4	5
34	Study on jet aeration oxidation of magnesium sulfite from magnesium-based exhaust gas cleaning system. *Environmental Technology (United Kingdom)*, **2018**, 39, 1198-1207	2.6	5
33	Combination of sodium hypochlorite pretreatment and flotation towards separation of polycarbonate from waste plastic mixtures. *Waste Management*, **2019**, 99, 112-121	8.6	5

32	Preparation of chemical manganese dioxide from manganese sulfate. *Mining Science and Technology*, **2010**, 20, 877-881		5
31	Extraction process of chlorogenic acid in flos lonicerae by enzymatic treatment. *Central South University*, **2002**, 9, 246-249		5
30	Hydrophilic modification of polycarbonate surface with surface alkoxylation pretreatment for efficient separation of polycarbonate and polystyrene by froth flotation. *Waste Management*, **2020**, 118, 471-480	8.6	5
29	Carbonyl-Incorporated Aromatic Hyper-Cross-Linked Polymers with Microporous Structure and Their Functional Materials for CO2 Adsorption. *Industrial & Engineering Chemistry Research*, **2020**, 59, 15955-15966	3.9	5
28	Unique metalloid uptake on microplastics: The interaction between boron and microplastics in aquatic environment. *Science of the Total Environment*, **2021**, 800, 149668	10.2	5
27	Treatment mechanism of chromium-containing wastewater with carbonate minerals. *Desalination and Water Treatment*, **2013**, 51, 5444-5450		4
26	Synthesis and characterization of MgSO4□5Mg(OH)2□2H2O flake powders. *Central South University*, **2011**, 18, 1871-1876		4
25	Original potential flotation of galena and its industrial application. *Central South University*, **2002**, 9, 91-94		4
24	Surface treatment with peroxymonosulfate for flotation separation of waste polyvinylchloride and acrylonitrile-butadiene-styrene: Optimization and mechanism. *Journal of Cleaner Production*, **2020**, 275, 124158	10.3	4
23	In situ Fe3O4 nanoparticles coating of polymers for separating hazardous PVC from microplastic mixtures. *Chemical Engineering Journal*, **2021**, 407, 127170	14.7	4
22	The Reaction between Bromine and the Water Dimer and the Highly Exothermic Reverse Reaction. *Journal of Computational Chemistry*, **2016**, 37, 177-82	3.5	3
21	Efficient combined method of selective dissolution and evaporation for recycling waste polyvinylbutyral films. *Plastics, Rubber and Composites*, **2012**, 41, 8-12	1.5	3
20	Ultrasound assisted Fenton-like degradation of dyes using copper doped graphitic carbon nitride. *Water Science and Technology*, **2021**, 84, 1146-1158	2.2	3
19	Is froth flotation a potential scheme for microplastics removal? Analysis on flotation kinetics and surface characteristics. *Science of the Total Environment*, **2021**, 792, 148345	10.2	3
18	Performance of C/C electric double layer capacitors with coal-based active carbon electrodes. *Ionics*, **2016**, 22, 695-699	2.7	2
17	I + (H2O)2 -$HI + (H2O)OH Forward and Reverse Reactions. CCSD(T) Studies Including Spin-Orbit Coupling. *Journal of Physical Chemistry B*, **2016**, 120, 1743-8	3.4	2
16	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	2.1	2
15	Structures and properties of the potassium-doped carbon clusters KCn/KCn +/KCn (n = 1□10). *European Physical Journal D*, **2014**, 68, 1	1.3	2

14	Optimizing green ferrate (VI) modification towards flotation separation of waste polyvinylchloride and acrylonitrile-butadiene-styrene mixtures. *Waste Management*, **2020**, 101, 83-93	8.6	2
13	Surface alcoholysis induced by alkali-activation ethanol: A novel scheme for binary flotation of polyethylene terephthalate from other plastics. *Journal of Cleaner Production*, **2021**, 314, 128096	10.3	2
12	Adsorption of Toxic Zinc by Functionalized Lignocellulose Derived from Waste Biomass: Kinetics, Isotherms and Thermodynamics. *Sustainability*, **2021**, 13, 10673	3.6	2
11	A clean and efficient flotation towards recovery of hazardous polyvinyl chloride and polycarbonate microplastics through selective aluminum coating: Process, mechanism, and optimization. *Journal of Environmental Management*, **2021**, 299, 113626	7.9	2
10	Removal of dianiline dithiophosphoric acid from wastewater by chelate precipitation. *Desalination and Water Treatment*, **2016**, 57, 5100-5107		1
9	Recovery a Refractory Oolitic Hematite by Magnetization Roasting and Magnetic Separation. *Advanced Materials Research*, **2011**, 361-363, 305-310	0.5	1
8	Flotation separation of hazardous polyvinyl chloride towards source control of microplastics based on selective hydrophilization of plasticizer-doping surfaces. *Journal of Hazardous Materials*, **2022**, 423, 127095	12.8	1
7	Adsorption of rhodamine B on polyvinyl chloride, polystyrene, and polyethylene terephthalate microplastics in aqueous environments. *Environmental Technology and Innovation*, **2022**, 27, 102495	7	1
6	Application of functionalized layered double hydroxides for heavy metal removal: A review.. *Science of the Total Environment*, **2022**, 155693	10.2	1
5	Application of two modified kaolin materials in removing micro-plastics from water. *Journal of Material Cycles and Waste Management*,1	3.4	0
4	Insight into the effect of aqueous species on microplastics removal by froth flotation: Kinetics and mechanism. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107834	6.8	0
3	Extracting Plasticizer from Polyvinylbutyral Plastics by Supercritical Fluid. *Advanced Materials Research*, **2012**, 550-553, 908-913	0.5	
2	Research on Surface Modification Technology of Water-Based Aluminum Powder Pigment. *Lecture Notes in Electrical Engineering*, **2021**, 573-579	0.2	
1	Preparation of Highly Hydrophilic Aluminum Pigment by Double-Layer Coating. *Lecture Notes in Electrical Engineering*, **2022**, 388-395	0.2	