

Hui Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 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	12.8	1
102	Adsorption of rhodamine B on polyvinyl chloride, polystyrene, and polyethylene terephthalate microplastics in aqueous environments. <i>Environmental Technology and Innovation</i> , 2022 , 27, 102495	7	1
101	Preparation of Highly Hydrophilic Aluminum Pigment by Double-Layer Coating. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 388-395	0.2	
100	Application of functionalized layered double hydroxides for heavy metal removal: A review.. <i>Science of the Total Environment</i> , 2022 , 155693	10.2	1
99	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	6.8	0
98	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	14.7	4
97	Research on Surface Modification Technology of Water-Based Aluminum Powder Pigment. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 573-579	0.2	
96	Ultrasound assisted Fenton-like degradation of dyes using copper doped graphitic carbon nitride. <i>Water Science and Technology</i> , 2021 , 84, 1146-1158	2.2	3
95	A critical review of control and removal strategies for microplastics from aquatic environments. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105463	6.8	9
94	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	10.3	2
93	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	8.3	17
92	Adsorption of Toxic Zinc by Functionalized Lignocellulose Derived from Waste Biomass: Kinetics, Isotherms and Thermodynamics. <i>Sustainability</i> , 2021 , 13, 10673	3.6	2
91	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	10.2	3
90	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	7.9	2
89	Unique metalloid uptake on microplastics: The interaction between boron and microplastics in aquatic environment. <i>Science of the Total Environment</i> , 2021 , 800, 149668	10.2	5
88	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	10.3	9
87	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	8.6	10

86	Flotation separation of polyethylene terephthalate from waste packaging plastics through ethylene glycol pretreatment assisted by sonication. <i>Waste Management</i> , 2020 , 105, 309-316	8.6	14
85	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	10.3	11
84	Flotation separation of acrylonitrile-butadiene-styrene and polystyrene in WEEE based on oxidation of active sites. <i>Minerals Engineering</i> , 2020 , 146, 106131	4.9	12
83	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	12.8	33
82	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	10.3	4
81	Surface Reactions in Selective Modification: The Prerequisite for Plastic Flotation. <i>Environmental Science & Technology</i> , 2020 , 54, 9742-9756	10.3	10
80	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	9.5	6
79	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	8.6	5
78	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	3.9	5
77	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	10.3	14
76	Optimizing green ferrate (VI) modification towards flotation separation of waste polyvinylchloride and acrylonitrile-butadiene-styrene mixtures. <i>Waste Management</i> , 2020 , 101, 83-93	8.6	2
75	Combination of sodium hypochlorite pretreatment and flotation towards separation of polycarbonate from waste plastic mixtures. <i>Waste Management</i> , 2019 , 99, 112-121	8.6	5
74	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	10.3	20
73	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	5.1	10
72	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	12.8	12
71	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	8.4	31
70	Surface modification and selective flotation of waste plastics for effective recycling—review. <i>Separation and Purification Technology</i> , 2019 , 226, 75-94	8.3	48
69	Separation of waste polymethyl methacrylate and polyvinyl chloride mixtures by flotation after Fenton oxidation. <i>Journal of Cleaner Production</i> , 2019 , 228, 1218-1228	10.3	10

68	Separation of polyvinylchloride and acrylonitrile-butadiene-styrene combining advanced oxidation by SO/Fe system and flotation. <i>Waste Management</i> , 2019 , 91, 80-88	8.6	15
67	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	10.3	30
66	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	10.3	20
65	Study on jet aeration oxidation of magnesium sulfite from magnesium-based exhaust gas cleaning system. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 1198-1207	2.6	5
64	Carboxyl functionalized Cinnamomum camphora for removal of heavy metals from synthetic wastewater-contribution to sustainability in agroforestry. <i>Journal of Cleaner Production</i> , 2018 , 184, 921-928	10.3	41
63	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	6.7	21
62	Flotation mechanisms of molybdenite fines by neutral oils. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018 , 25, 1-10	3.1	17
61	Pb(II) sorption from aqueous solution by novel biochar loaded with nano-particles. <i>Chemosphere</i> , 2018 , 192, 1-4	8.4	64
60	Enhanced adsorption of Ag ⁺ on triethanolamine modified titanate nanotubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 537, 28-35	5.1	13
59	An effective approach for improving flotation recovery of molybdenite fines from a finely-disseminated molybdenum ore. <i>Journal of Central South University</i> , 2018 , 25, 1326-1339	2.1	2
58	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	8.6	7
57	Pb(II) sorption by biochar derived from Cinnamomum camphora and its improvement with ultrasound-assisted alkali activation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 556, 177-184	5.1	52
56	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	10.3	45
55	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	5.1	59
54	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	8.6	15
53	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	4	5
52	Surface treatment with Fenton for separation of acrylonitrile-butadiene-styrene and polyvinylchloride waste plastics by flotation. <i>Waste Management</i> , 2017 , 67, 20-26	8.6	37
51	The flotation separation of pyrite from pyrophyllite using oxidized guar gum as depressant. <i>International Journal of Mineral Processing</i> , 2017 , 161, 78-82		21

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	8.6	13
49	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	8.6	34
48	Fenton treatment for flotation separation of polyvinyl chloride from plastic mixtures. <i>Separation and Purification Technology</i> , 2017 , 187, 415-425	8.3	44
47	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	3.3	15
46	The Reaction between Bromine and the Water Dimer and the Highly Exothermic Reverse Reaction. <i>Journal of Computational Chemistry</i> , 2016 , 37, 177-82	3.5	3
45	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	10.3	26
44	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		7
43	Removal of dianiline dithiophosphoric acid from wastewater by chelate precipitation. <i>Desalination and Water Treatment</i> , 2016 , 57, 5100-5107		1
42	Performance of C/C electric double layer capacitors with coal-based active carbon electrodes. <i>Ionics</i> , 2016 , 22, 695-699	2.7	2
41	I + (H ₂ O) ₂ → HI + (H ₂ O)OH Forward and Reverse Reactions. CCSD(T) Studies Including Spin-Orbit Coupling. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1743-8	3.4	2
40	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	3.3	15
39	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	3.1	13
38	Ammonia modification for flotation separation of polycarbonate and polystyrene waste plastics. <i>Waste Management</i> , 2016 , 51, 13-18	8.6	32
37	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	5.1	15
36	Flotation separation of waste plastics for recycling-A review. <i>Waste Management</i> , 2015 , 41, 28-38	8.6	122
35	Interfacial interactions between plastic particles in plastics flotation. <i>Waste Management</i> , 2015 , 46, 56-68.6	8.6	12
34	Flotation separation of polyvinyl chloride and polyethylene terephthalate plastics combined with surface modification for recycling. <i>Waste Management</i> , 2015 , 45, 112-7	8.6	40
33	Separation of polyethylene terephthalate from municipal waste plastics by froth flotation for recycling industry. <i>Waste Management</i> , 2015 , 35, 42-7	8.6	69

32	Water-compatible halloysite-imprinted polymer by Pickering emulsion polymerization for the selective recognition of herbicides. <i>Journal of Separation Science</i> , 2015 , 38, 1365-71	3.4	30
31	Separation of aluminum and plastic by metallurgy method for recycling waste pharmaceutical blisters. <i>Journal of Cleaner Production</i> , 2015 , 102, 378-383	10.3	14
30	Kinetics and leaching behaviors of aluminum from pharmaceutical blisters in sodium hydroxide solution. <i>Journal of Central South University</i> , 2015 , 22, 4545-4550	2.1	7
29	Flotability and flotation separation of polymer materials modulated by wetting agents. <i>Waste Management</i> , 2014 , 34, 309-15	8.6	30
28	Separation of polycarbonate and acrylonitrile-butadiene-styrene waste plastics by froth flotation combined with ammonia pretreatment. <i>Waste Management</i> , 2014 , 34, 2656-61	8.6	37
27	Structures and properties of the potassium-doped carbon clusters $K_n/K_n^+ / K_n^-$ ($n = 1-10$). <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	2
26	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	5.1	19
25	The exothermic $HCl + OH^-(H_2O)$ reaction: removal of the $HCl + OH^-$ barrier by a single water molecule. <i>Journal of Chemical Physics</i> , 2014 , 140, 124316	3.9	8
24	Boiling treatment of ABS and PS plastics for flotation separation. <i>Waste Management</i> , 2014 , 34, 1206-108.6		34
23	Floatability of polymer materials modulated by frothers. <i>Waste Management</i> , 2013 , 33, 2623-31	8.6	29
22	Model of estimating nano-particle agglomerate sizes in a vibro-fluidized bed. <i>Advanced Powder Technology</i> , 2013 , 24, 311-316	4.6	20
21	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	5.1	24
20	Treatment mechanism of chromium-containing wastewater with carbonate minerals. <i>Desalination and Water Treatment</i> , 2013 , 51, 5444-5450		4
19	Application of dissolved air flotation on separation of waste plastics ABS and PS. <i>Waste Management</i> , 2012 , 32, 1297-305	8.6	46
18	Efficient combined method of selective dissolution and evaporation for recycling waste polyvinylbutyral films. <i>Plastics, Rubber and Composites</i> , 2012 , 41, 8-12	1.5	3
17	Extracting Plasticizer from Polyvinylbutyral Plastics by Supercritical Fluid. <i>Advanced Materials Research</i> , 2012 , 550-553, 908-913	0.5	
16	Study on the Polyurethane Concrete for the Rapid Repairment of Highway Pavement. <i>Applied Mechanics and Materials</i> , 2012 , 193-194, 762-769	0.3	7
15	Corrosion resistance of lamellar aluminium pigments coated by SiO_2 by sol-gel method. <i>Corrosion Science</i> , 2011 , 53, 161-167	6.8	32

14	Synthesis and characterization of $MgSO_4 \cdot Mg(OH)_2 \cdot 2H_2O$ flake powders. <i>Central South University</i> , 2011 , 18, 1871-1876		4
13	Recovery a Refractory Oolitic Hematite by Magnetization Roasting and Magnetic Separation. <i>Advanced Materials Research</i> , 2011 , 361-363, 305-310	0.5	1
12	Behavior of magnetic Fe_3O_4 nano-particles in magnetically assisted gas-fluidized beds. <i>Advanced Powder Technology</i> , 2011 , 22, 427-432	4.6	19
11	Liberation characteristic and physical separation of printed circuit board (PCB). <i>Waste Management</i> , 2011 , 31, 2161-6	8.6	87
10	Preparation of chemical manganese dioxide from manganese sulfate. <i>Mining Science and Technology</i> , 2010 , 20, 877-881		5
9	Interfacial interaction of bio-leaching of pyrite mineral. <i>Central South University</i> , 2008 , 15, 49-53		9
8	Study of the interfacial interactions in the molybdenite floatation system. <i>Mining Science and Technology</i> , 2008 , 18, 82-87		10
7	Crushing performance and resource characteristic of printed circuit board scrap. <i>Central South University</i> , 2005 , 12, 552-555		20
6	Galvanic coupling and its effect on origin potential flotation system of sulfide minerals. <i>Central South University</i> , 2004 , 11, 275-279		9
5	Potential control flotation of galena in strong alkaline media. <i>Central South University</i> , 2002 , 9, 16-20		11
4	Extraction process of chlorogenic acid in flos Ionicerae by enzymatic treatment. <i>Central South University</i> , 2002 , 9, 246-249		5
3	Original potential flotation of galena and its industrial application. <i>Central South University</i> , 2002 , 9, 91-94		4
2	Sorption of Cd(II) ion by lignocellulose biomass from leaves of camphor tree68, 211-219		8
1	Application of two modified kaolin materials in removing micro-plastics from water. <i>Journal of Material Cycles and Waste Management</i> ,1	3.4	0