

Mengjun Chen

List of Publications by Year in descending order

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91
papers

3,494
citations

126907

33
h-index

149698

56
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97
all docs

97
docs citations

97
times ranked

3036
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential Environmental and Human Health Impacts of Rechargeable Lithium Batteries in Electronic Waste. <i>Environmental Science & Technology</i> , 2013, 47, 5495-5503.	10.0	371
2	“Control-Alt-Delete”: Rebooting Solutions for the E-Waste Problem. <i>Environmental Science & Technology</i> , 2015, 49, 7095-7108.	10.0	198
3	Fractional removal of manganese and ammonia nitrogen from electrolytic metal manganese residue leachate using carbonate and struvite precipitation. <i>Water Research</i> , 2019, 153, 229-238.	11.3	143
4	Metal-Organic Gels from Silver Nanoclusters with Aggregation-Induced Emission and Fluorescence-to-Phosphorescence Switching. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9922-9927.	13.8	138
5	Leaching behavior of copper from waste printed circuit boards with Brønsted acidic ionic liquid. <i>Waste Management</i> , 2014, 34, 483-488.	7.4	131
6	Lead recovery and the feasibility of foam glass production from funnel glass of dismantled cathode ray tube through pyrovacuum process. <i>Journal of Hazardous Materials</i> , 2009, 161, 1109-1113.	12.4	119
7	Bioleaching waste printed circuit boards by <i>Acidithiobacillus ferrooxidans</i> and its kinetics aspect. <i>Journal of Biotechnology</i> , 2014, 173, 24-30.	3.8	116
8	Comparative study on copper leaching from waste printed circuit boards by typical ionic liquid acids. <i>Waste Management</i> , 2015, 41, 142-147.	7.4	101
9	An innovative method for synergistic stabilization/solidification of Mn^{2+} , NH_4^+-N , PO_4^{3-} and F^- in electrolytic manganese residue and phosphogypsum. <i>Journal of Hazardous Materials</i> , 2019, 376, 212-222.	12.4	70
10	Effect of hydrothermal carbonization on heavy metals in swine manure: Speciation, bioavailability and environmental risk. <i>Journal of Environmental Management</i> , 2019, 234, 97-103.	7.8	67
11	Typical pollutants in bottom ashes from a typical medical waste incinerator. <i>Journal of Hazardous Materials</i> , 2010, 173, 181-185.	12.4	66
12	Leaching Study of Spent Li-ion Batteries. <i>Procedia Environmental Sciences</i> , 2012, 16, 443-450.	1.4	65
13	Electronic Waste Disassembly with Industrial Waste Heat. <i>Environmental Science & Technology</i> , 2013, 47, 12409-12416.	10.0	61
14	Manganese and ammonia nitrogen recovery from electrolytic manganese residue by electric field enhanced leaching. <i>Journal of Cleaner Production</i> , 2019, 236, 117708.	9.3	61
15	Copper and gold recovery from CPU sockets by one-step slurry electrolysis. <i>Journal of Cleaner Production</i> , 2019, 213, 673-679.	9.3	60
16	A critical review on approaches for electrolytic manganese residue treatment and disposal technology: Reduction, pretreatment, and reuse. <i>Journal of Hazardous Materials</i> , 2021, 418, 126235.	12.4	60
17	Lead during the leaching process of copper from waste printed circuit boards by five typical ionic liquid acids. <i>Journal of Cleaner Production</i> , 2015, 95, 142-147.	9.3	59
18	Evolution of electronic waste toxicity: Trends in innovation and regulation. <i>Environment International</i> , 2016, 89-90, 147-154.	10.0	59

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19	Simultaneous stabilization/solidification of Mn ²⁺ and NH ₄ ⁺ -N from electrolytic manganese residue using MgO and different phosphate resource. <i>Ecotoxicology and Environmental Safety</i> , 2018, 148, 220-227.	6.0	58
20	Superfine copper powders recycled from concentrated metal scraps of waste printed circuit boards by slurry electrolysis. <i>Journal of Cleaner Production</i> , 2017, 152, 1-6.	9.3	56
21	A novel and efficient ammonia leaching method for recycling waste lithium ion batteries. <i>Journal of Cleaner Production</i> , 2020, 251, 119665.	9.3	56
22	A novel recovery method of copper from waste printed circuit boards by supercritical methanol process: Preparation of ultrafine copper materials. <i>Waste Management</i> , 2017, 60, 643-651.	7.4	53
23	Micro-copper powders recovered from waste printed circuit boards by electrolysis. <i>Hydrometallurgy</i> , 2015, 156, 152-157.	4.3	52
24	Recovery of copper from WPCBs using slurry electrolysis with ionic liquid [B ₃ O ₃ HPy] ⁺ HSO ₄ ⁻ . <i>Hydrometallurgy</i> , 2018, 175, 150-154.	4.3	52
25	Phenolic endocrine disrupting chemicals in an urban receiving river (Panlong river) of Yunnan-Guizhou plateau: Occurrence, bioaccumulation and sources. <i>Ecotoxicology and Environmental Safety</i> , 2016, 128, 133-142.	6.0	45
26	Cobalt and lithium leaching from waste lithium ion batteries by glycine. <i>Journal of Power Sources</i> , 2021, 482, 228942.	7.8	43
27	Enhanced electrokinetic remediation of manganese and ammonia nitrogen from electrolytic manganese residue using pulsed electric field in different enhancement agents. <i>Ecotoxicology and Environmental Safety</i> , 2019, 171, 523-529.	6.0	42
28	Application of critical water-alcohol composite medium to treat waste printed circuit boards: Oil phase products characteristic and debromination. <i>Journal of Hazardous Materials</i> , 2018, 344, 333-342.	12.4	41
29	Copper extraction from waste printed circuit boards by glycine. <i>Separation and Purification Technology</i> , 2020, 253, 117463.	7.9	39
30	An innovative method for manganese (Mn ²⁺) and ammonia nitrogen (NH ₄ ⁺ -N) stabilization/solidification in electrolytic manganese residue by basic burning raw material. <i>Chemosphere</i> , 2020, 253, 126896.	8.2	38
31	Simultaneous optimizing removal of manganese and ammonia nitrogen from electrolytic metal manganese residue leachate using chemical equilibrium model. <i>Ecotoxicology and Environmental Safety</i> , 2019, 172, 273-280.	6.0	37
32	Self-Assembly and Rheological Properties of a Pseudogemini Surfactant Formed in a Salt-Free Catanionic Surfactant Mixture in Water. <i>Langmuir</i> , 2015, 31, 11209-11219.	3.5	36
33	Cathode ray tubes glass recycling: A review. <i>Science of the Total Environment</i> , 2019, 650, 2842-2849.	8.0	34
34	Impact of technological innovation and regulation development on e-waste toxicity: a case study of waste mobile phones. <i>Scientific Reports</i> , 2018, 8, 7100.	3.3	33
35	MnO ₂ -Functionalized Amorphous Carbon Sorbents from Spent Lithium-Ion Batteries for Highly Efficient Removal of Cadmium from Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10210-10220.	3.7	33
36	Detoxification of cathode ray tube glass by self-propagating process. <i>Journal of Hazardous Materials</i> , 2009, 165, 980-986.	12.4	30

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37	Completely separating metals and nonmetals from waste printed circuit boards by slurry electrolysis. Separation and Purification Technology, 2018, 205, 302-307.	7.9	29
38	Effect of electrolyte reuse on metal recovery from waste CPU slots by slurry electrolysis. Waste Management, 2019, 95, 370-376.	7.4	29
39	Zero E-waste: Regulatory impediments and blockchain imperatives. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	6.0	29
40	Electronic Metalâ€“Support Interaction Modulation of Singleâ€“Atom Electrocatalysts for Rechargeable Zincâ€“Air Batteries. Small Methods, 2022, 6, e2100947.	8.6	29
41	Recovery of high purity copper from waste printed circuit boards of mobile phones by slurry electrolysis with ammonia-ammonium system. Separation and Purification Technology, 2021, 275, 119180.	7.9	27
42	Synergistic solidification/stabilization of electrolytic manganese residue and carbide slag. Science of the Total Environment, 2022, 810, 152175.	8.0	27
43	China E-waste management: Struggling for future success. Resources, Conservation and Recycling, 2018, 139, 48-49.	10.8	25
44	A semi-scaled experiment for metals separating and recovering from waste printed circuit boards by slurry electrolysis. Chemical Engineering Research and Design, 2021, 147, 37-44.	5.6	25
45	Electrokinetic removal of Cu and Zn in anaerobic digestate: Interrelation between metal speciation and electrokinetic treatments. Journal of Hazardous Materials, 2015, 286, 118-126.	12.4	23
46	Metal-Organic Gels of Catechol-Based Ligands with Ni(II) Acetate for Dye Adsorption. Langmuir, 2018, 34, 9435-9441.	3.5	22
47	Fullerene-Directed Synthesis of Flowerlike Cu ₃ (PO ₄) ₂ Crystals for Efficient Photocatalytic Degradation of Dyes. Langmuir, 2019, 35, 8806-8815.	3.5	22
48	Aggregationâ€“Induced Emission of Eu ^{III} Complexes Balanced with Bulky and Amphiphilic Imidazolium Cations in Ethanol/Water Binary Mixtures. Chemistry - A European Journal, 2018, 24, 15912-15920.	3.3	21
49	Aggregation Behavior and Antioxidant Properties of Amphiphilic Fullerene C ₆₀ Derivatives Cofunctionalized with Cationic and Nonionic Hydrophilic Groups. Langmuir, 2019, 35, 6939-6949.	3.5	21
50	The inappropriate application of the regression Langmuir Qm for adsorption capacity comparison. Science of the Total Environment, 2020, 699, 134222.	8.0	21
51	Robust onionlike structures with magnetic and photodynamic properties formed by a fullerene C ₆₀ -POM hybrid. Chemical Communications, 2016, 52, 12171-12174.	4.1	20
52	Guanosine-based thermotropic liquid crystals with tunable phase structures and ion-responsive properties. Journal of Colloid and Interface Science, 2019, 553, 269-279.	9.4	19
53	A low cost of phosphate-based binder for Mn ²⁺ and NH ₄ ⁺ -N simultaneous stabilization in electrolytic manganese residue. Ecotoxicology and Environmental Safety, 2020, 205, 111317.	6.0	19
54	Enhanced leaching of manganese from low-grade pyrolusite using ball milling and electric field. Ecotoxicology and Environmental Safety, 2021, 211, 111893.	6.0	19

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55	Electrolytic manganese residue disposal based on basic burning raw material: Heavy metals solidification/stabilization and long-term stability. <i>Science of the Total Environment</i> , 2022, 825, 153774.	8.0	19
56	Metal mobility and toxicity of zinc hydrometallurgical residues. <i>Chemical Engineering Research and Design</i> , 2020, 144, 366-371.	5.6	18
57	Effective utilization of waste cathode ray tube glass—Crystalline silicotitanate synthesis. <i>Journal of Hazardous Materials</i> , 2010, 182, 45-49.	12.4	17
58	Polychlorinated biphenyls and organochlorine pesticides in atmospheric particulate matter of Northern China: distribution, sources, and risk assessment. <i>Environmental Science and Pollution Research</i> , 2015, 22, 17171-17181.	5.3	17
59	Behaviour of zinc during the process of leaching copper from WPCBs by typical acidic ionic liquids. <i>RSC Advances</i> , 2015, 5, 34921-34926.	3.6	17
60	Self-Organization and Vesicle Formation of Amphiphilic Fulleromonodendrons Bearing Oligo(poly(ethylene oxide)) Chains. <i>Langmuir</i> , 2016, 32, 2338-2347.	3.5	17
61	Fullerenols Revisited: Highly Monodispersed Photoluminescent Nanomaterials as Ideal Building Blocks for Supramolecular Chemistry. <i>Chemistry - A European Journal</i> , 2018, 24, 16609-16619.	3.3	17
62	Naphthalene—Functionalized, Photoluminescent Room Temperature Ionic Liquids Bearing Small Counterions. <i>Chemistry - A European Journal</i> , 2016, 22, 6286-6293.	3.3	16
63	Effect of ionic liquid [MIm]HSO ₄ on WPCB metal-enriched scraps refined by slurry electrolysis. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33260-33268.	5.3	15
64	Metal—Organic Gels from Silver Nanoclusters with Aggregation—Induced Emission and Fluorescence—Phosphorescence Switching. <i>Angewandte Chemie</i> , 2020, 132, 10008-10013.	2.0	14
65	Enhanced recovery of copper from reclaimed copper smelting fly ash via leaching and electrowinning processes. <i>Separation and Purification Technology</i> , 2021, 273, 118943.	7.9	14
66	Hydroxylation of electrolytic manganese anode slime with EDTA-2Na and its adsorption of methylene blue. <i>Separation and Purification Technology</i> , 2021, 278, 119526.	7.9	14
67	Zero-charged catanionic lamellar liquid crystals doped with fullerene C ₆₀ for potential applications in tribology. <i>Soft Matter</i> , 2017, 13, 6250-6258.	2.7	13
68	Heavy Metals Removing from Municipal Solid Waste Incineration Fly Ashes by Electric Field-Enhanced Washing. <i>Materials</i> , 2020, 13, 793.	2.9	11
69	Photoluminescent Honeycomb Structures from Polyoxometalates and an Imidazolium—Based Ionic Liquid Bearing a —Conjugated Moiety and a Branched Aliphatic Chain. <i>Chemistry - A European Journal</i> , 2017, 23, 7278-7286.	3.3	10
70	Adsorption of Cadmium on Degraded Soils Amended with Maize-Stalk-Derived Biochar. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2331.	2.6	10
71	Properties and ionic self-assembled structures from mixture of a bola-type strong alkali dication and a branched phosphoric acid. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 157-166.	9.4	9
72	Copper recovery from waste printed circuit boards concentrated metal scraps by electrolysis. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	6.0	9

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73	Sol-gel hydrothermal synthesis of nano crystalline silicotitanate and its strontium and cesium adsorption. <i>Environmental Science and Pollution Research</i> , 2020, 27, 4404-4413.	5.3	8
74	A new electrochemical method for simultaneous removal of Mn ²⁺ and NH ₄ ⁺ -N in wastewater with Cu plate as cathode. <i>Ecotoxicology and Environmental Safety</i> , 2020, 206, 111341.	6.0	8
75	Magnetic and Biocompatible Fullerenol/Fe(III) Microcapsules with Antioxidant Activities. <i>ACS Applied Bio Materials</i> , 2020, 3, 358-368.	4.6	7
76	Metal mobility and toxicity of reclaimed copper smelting fly ash and smelting slag. <i>RSC Advances</i> , 2021, 11, 6877-6884.	3.6	7
77	Waste Electrical and Electronic Equipment Reutilization in China. <i>Sustainability</i> , 2021, 13, 11433.	3.2	7
78	Preparation and Self-Assembly of a 2:1 Polyoxometalate-Fullerene C ₆₀ Shape Amphiphile. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4255-4264.	2.0	6
79	Adsorption Kinetics of ¹³⁷ Cs ⁺ / ⁹⁰ Sr ²⁺ on Ca-Bentonite. <i>Water Environment Research</i> , 2017, 89, 791-797.	2.7	5
80	Comparative effectiveness of technical and regulatory innovations to reduce the burden of electronic waste. <i>Resources, Conservation and Recycling</i> , 2021, 167, 105387.	10.8	5
81	Gold Fractal Growth during Its Recycling from Waste Printed Circuit Boards by Slurry Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5183-5194.	6.7	5
82	Hierarchically Organized Honeycomb Films Based on the Self-Assembly of Fulleromonodendrons. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24851-24862.	3.1	4
83	Copper fractal growth during recycling from waste printed circuit boards by slurry electrolysis. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	6.0	4
84	Toxic footprint and materials profile of electronic components in printed circuit boards. <i>Waste Management</i> , 2022, 141, 154-162.	7.4	4
85	Acid-Free Leaching Nickel, Cobalt, Manganese, and Lithium from Spent Lithium-Ion Batteries Using Fe(II) and Fe(III) Solution. <i>Journal of Sustainable Metallurgy</i> , 2022, 8, 863-871.	2.3	3
86	Preliminary study on removing Cs ⁺ /Sr ²⁺ by activated porous calcium silicate—A by-product from high-alumina fly ash recycling industry. <i>Journal of the Air and Waste Management Association</i> , 2015, 65, 99-105.	1.9	2
87	Seasonal Variation of the Mobility and Toxicity of Metals in Beijing's Municipal Solid Waste Incineration Fly Ash. <i>Sustainability</i> , 2021, 13, 6532.	3.2	2
88	Enhanced removal of Pb from electrolytic manganese anode slime and preparation of chemical MnO ₂ . <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 3741-3750.	2.2	2
89	Leaching assessments of toxic metals in waste plasma display panel glass. <i>Journal of the Air and Waste Management Association</i> , 2015, 65, 743-750.	1.9	1
90	The leaching behaviour of Cu, Zn and Pb from waste printed circuit boards by [B ₅ O ₇] ⁴⁻ and [H ₂ P ₄ O ₁₄] ⁴⁻ . <i>International Journal of Environment and Pollution</i> , 2019, 65, 267.	0.2	0

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91	Self-Stabilized Giant Aggregates in Water from Room-Temperature Ionic Liquids with an Asymmetric Polar–Apolar–Polar Architecture. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4651-4660.	2.6	0