

Irene M C Lo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5746610/publications.pdf>

Version: 2024-02-01

134
papers

11,183
citations

25034

57
h-index

30087

103
g-index

135
all docs

135
docs citations

135
times ranked

11055
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal and recovery of Cr(VI) from wastewater by maghemite nanoparticles. <i>Water Research</i> , 2005, 39, 4528-4536.	11.3	925
2	The limitations of applying zero-valent iron technology in contaminants sequestration and the corresponding countermeasures: The development in zero-valent iron technology in the last two decades (1994–2014). <i>Water Research</i> , 2015, 75, 224-248.	11.3	762
3	Magnetic nanoparticles: Essential factors for sustainable environmental applications. <i>Water Research</i> , 2013, 47, 2613-2632.	11.3	731
4	Selective Phosphate Removal from Water and Wastewater using Sorption: Process Fundamentals and Removal Mechanisms. <i>Environmental Science & Technology</i> , 2020, 54, 50-66.	10.0	437
5	Selective Removal of Heavy Metals from Industrial Wastewater Using Maghemite Nanoparticle: Performance and Mechanisms. <i>Journal of Environmental Engineering, ASCE</i> , 2006, 132, 709-715.	1.4	320
6	Comparative environmental evaluation of aggregate production from recycled waste materials and virgin sources by LCA. <i>Resources, Conservation and Recycling</i> , 2016, 109, 67-77.	10.8	320
7	Fast Removal and Recovery of Cr(VI) Using Surface-Modified Jacobsite (MnFe ₂ O ₄) Nanoparticles. <i>Langmuir</i> , 2005, 21, 11173-11179.	3.5	309
8	Highly efficient and selective phosphate removal from wastewater by magnetically recoverable La(OH) ₃ /Fe ₃ O ₄ nanocomposites. <i>Water Research</i> , 2017, 126, 179-188.	11.3	279
9	A holistic review of hydrogel applications in the adsorptive removal of aqueous pollutants: Recent progress, challenges, and perspectives. <i>Water Research</i> , 2016, 106, 259-271.	11.3	251
10	Synthesis of mesoporous magnetic \hat{I}^3 -Fe ₂ O ₃ and its application to Cr(VI) removal from contaminated water. <i>Water Research</i> , 2009, 43, 3727-3734.	11.3	231
11	Removal of Chromium (VI) by Acid-Washed Zero-Valent Iron under Various Groundwater Geochemistry Conditions. <i>Environmental Science & Technology</i> , 2008, 42, 1238-1244.	10.0	217
12	Recent developments and challenges in practical application of visible–light–driven TiO ₂ –based heterojunctions for PPCP degradation: A critical review. <i>Water Research</i> , 2020, 170, 115356.	11.3	185
13	Comparative LCA on using waste materials in the cement industry: A Hong Kong case study. <i>Resources, Conservation and Recycling</i> , 2017, 120, 199-208.	10.8	160
14	Chromium(VI) Reduction Kinetics by Zero-Valent Iron in Moderately Hard Water with Humic Acid: Iron Dissolution and Humic Acid Adsorption. <i>Environmental Science & Technology</i> , 2008, 42, 2092-2098.	10.0	155
15	Hardness and carbonate effects on the reactivity of zero-valent iron for Cr(VI) removal. <i>Water Research</i> , 2006, 40, 595-605.	11.3	142
16	Removal Mechanisms of Phosphate by Lanthanum Hydroxide Nanorods: Investigations using EXAFS, ATR-FTIR, DFT, and Surface Complexation Modeling Approaches. <i>Environmental Science & Technology</i> , 2017, 51, 12377-12384.	10.0	142
17	Green synthesis of nanoparticles for the remediation of contaminated waters and soils: Constituents, synthesizing methods, and influencing factors. <i>Journal of Cleaner Production</i> , 2019, 226, 540-549.	9.3	139
18	Effects of moisture content of food waste on residue separation, larval growth and larval survival in black soldier fly bioconversion. <i>Waste Management</i> , 2017, 67, 315-323.	7.4	131

#	ARTICLE	IF	CITATIONS
19	Fabrication of silica-free superparamagnetic ZrO ₂ @Fe ₃ O ₄ with enhanced phosphate recovery from sewage: Performance and adsorption mechanism. <i>Chemical Engineering Journal</i> , 2017, 319, 258-267.	12.7	130
20	Synthesis of magnetically separable Bi ₂ O ₄ /Fe ₃ O ₄ hybrid nanocomposites with enhanced photocatalytic removal of ibuprofen under visible light irradiation. <i>Water Research</i> , 2016, 100, 393-404.	11.3	124
21	Salinity Effect on Mechanical Dewatering of Sludge with and without Chemical Conditioning. <i>Environmental Science & Technology</i> , 2001, 35, 4691-4696.	10.0	121
22	Influence of humic acid on the colloidal stability of surface-modified nano zero-valent iron. <i>Water Research</i> , 2013, 47, 419-427.	11.3	121
23	Enhanced paramagnetic Cu ²⁺ ions removal by coupling a weak magnetic field with zero valent iron. <i>Journal of Hazardous Materials</i> , 2015, 283, 880-887.	12.4	113
24	Singlet oxygen triggered by robust bimetallic MoFe/TiO ₂ nanospheres of highly efficacy in solar-light-driven peroxymonosulfate activation for organic pollutants removal. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119930.	20.2	110
25	Visible-light-driven N-TiO ₂ @SiO ₂ @Fe ₃ O ₄ magnetic nanophotocatalysts: Synthesis, characterization, and photocatalytic degradation of PPCPs. <i>Journal of Hazardous Materials</i> , 2019, 370, 108-116.	12.4	107
26	EDTA Extraction of Heavy Metals from Different Soil Fractions and Synthetic Soils. <i>Water, Air, and Soil Pollution</i> , 1999, 109, 219-236.	2.4	106
27	Visible-light-driven magnetically recyclable terephthalic acid functionalized g-C ₃ N ₄ /TiO ₂ heterojunction nanophotocatalyst for enhanced degradation of PPCPs. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118898.	20.2	105
28	Fate of As(V)-treated nano zero-valent iron: Determination of arsenic desorption potential under varying environmental conditions by phosphate extraction. <i>Water Research</i> , 2012, 46, 4071-4080.	11.3	98
29	New Halogenated Disinfection Byproducts in Swimming Pool Water and Their Permeability across Skin. <i>Environmental Science & Technology</i> , 2012, 46, 7112-7119.	10.0	96
30	One-pot hydrothermal synthesis of g-C ₃ N ₄ /Ag/AgCl/BiVO ₄ micro-flower composite for the visible light degradation of ibuprofen. <i>Chemical Engineering Journal</i> , 2018, 341, 248-261.	12.7	95
31	Holistic BIM framework for sustainable low carbon design of high-rise buildings. <i>Journal of Cleaner Production</i> , 2018, 195, 1091-1104.	9.3	95
32	Effects of hardness and alkalinity on the removal of arsenic(V) from humic acid-deficient and humic acid-rich groundwater by zero-valent iron. <i>Water Research</i> , 2009, 43, 4296-4304.	11.3	94
33	Developing a CO ₂ -e accounting method for quantification and analysis of embodied carbon in high-rise buildings. <i>Journal of Cleaner Production</i> , 2017, 141, 825-836.	9.3	90
34	Simulation optimisation towards energy efficient green buildings: Current status and future trends. <i>Journal of Cleaner Production</i> , 2020, 254, 120012.	9.3	89
35	Competitive Cu and Cd Sorption and Transport in Soils: A Combined Batch Kinetics, Column, and Sequential Extraction Study. <i>Environmental Science & Technology</i> , 2006, 40, 6655-6661.	10.0	88
36	Activated Carbon Produced from Waste Wood Pallets: Adsorption of Three Classes of Dyes. <i>Water, Air, and Soil Pollution</i> , 2007, 184, 141-155.	2.4	86

#	ARTICLE	IF	CITATIONS
37	Reviewing the anaerobic digestion and co-digestion process of food waste from the perspectives on biogas production performance and environmental impacts. <i>Environmental Science and Pollution Research</i> , 2016, 23, 24435-24450.	5.3	85
38	A comparative analysis of embodied carbon in high-rise buildings regarding different design parameters. <i>Journal of Cleaner Production</i> , 2017, 161, 663-675.	9.3	85
39	Critical review of photocatalytic disinfection of bacteria: from noble metals- and carbon nanomaterials-TiO ₂ composites to challenges of water characteristics and strategic solutions. <i>Science of the Total Environment</i> , 2021, 758, 143953.	8.0	85
40	An integrated life cycle costing and human health impact analysis of municipal solid waste management options in Hong Kong using modified eco-efficiency indicator. <i>Resources, Conservation and Recycling</i> , 2016, 107, 104-114.	10.8	81
41	Surface Functional Group Engineering of CeO ₂ Particles for Enhanced Phosphate Adsorption. <i>Environmental Science & Technology</i> , 2020, 54, 4601-4608.	10.0	81
42	Influence of calcium ions on the colloidal stability of surface-modified nano zero-valent iron in the absence or presence of humic acid. <i>Water Research</i> , 2013, 47, 2489-2496.	11.3	79
43	Superoxide radicals dominated visible light driven peroxymonosulfate activation using molybdenum selenide (MoSe ₂) for boosting catalytic degradation of pharmaceuticals and personal care products. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120223.	20.2	78
44	Removal of ionizable aromatic pollutants from contaminated water using nano γ -Fe ₂ O ₃ based magnetic cationic hydrogel: Sorptive performance, magnetic separation and reusability. <i>Journal of Hazardous Materials</i> , 2017, 322, 195-204.	12.4	76
45	Kinetic Interactions of EDDS with Soils. 1. Metal Resorption and Competition under EDDS Deficiency. <i>Environmental Science & Technology</i> , 2009, 43, 831-836.	10.0	75
46	Influences of humic acid, bicarbonate and calcium on Cr(VI) reductive removal by zero-valent iron. <i>Science of the Total Environment</i> , 2009, 407, 3407-3414.	8.0	74
47	Development of controlled low-strength material derived from beneficial reuse of bottom ash and sediment for green construction. <i>Construction and Building Materials</i> , 2014, 64, 201-207.	7.2	74
48	High charge transfer response of g-C ₃ N ₄ /Ag/AgCl/BiVO ₄ microstructure for the selective photocatalytic reduction of CO ₂ to CH ₄ under alkali activation. <i>Journal of Catalysis</i> , 2018, 366, 28-36.	6.2	74
49	Removal of co-present chromate and arsenate by zero-valent iron in groundwater with humic acid and bicarbonate. <i>Water Research</i> , 2009, 43, 2540-2548.	11.3	71
50	Kinetic Interactions of EDDS with Soils. 2. Metal-EDDS Complexes in Uncontaminated and Metal-Contaminated Soils. <i>Environmental Science & Technology</i> , 2009, 43, 837-842.	10.0	71
51	Environmental assessment of food waste valorization in producing biogas for various types of energy use based on LCA approach. <i>Waste Management</i> , 2016, 50, 290-299.	7.4	70
52	Synthesis and Application of Magnetic Hydrogel for Cr(VI) Removal from Contaminated Water. <i>Environmental Engineering Science</i> , 2010, 27, 947-954.	1.6	64
53	Evaluation of environmental friendliness of concrete paving eco-blocks using LCA approach. <i>International Journal of Life Cycle Assessment</i> , 2016, 21, 70-84.	4.7	63
54	Development of social sustainability assessment method and a comparative case study on assessing recycled construction materials. <i>International Journal of Life Cycle Assessment</i> , 2018, 23, 1654-1674.	4.7	63

#	ARTICLE	IF	CITATIONS
55	Persulfate activation by natural zeolite supported nanoscale zero-valent iron for trichloroethylene degradation in groundwater. <i>Science of the Total Environment</i> , 2019, 684, 351-359.	8.0	63
56	Role of surface functional groups of hydrogels in metal adsorption: From performance to mechanism. <i>Journal of Hazardous Materials</i> , 2021, 408, 124463.	12.4	63
57	Rapid disinfection of <i>E. coli</i> by a ternary BiVO ₄ /Ag/g-C ₃ N ₄ composite under visible light: photocatalytic mechanism and performance investigation in authentic sewage. <i>Environmental Science: Nano</i> , 2019, 6, 610-623.	4.3	59
58	Magnetically separable BiOBr/Fe ₃ O ₄ @SiO ₂ for visible-light-driven photocatalytic degradation of ibuprofen: Mechanistic investigation and prototype development. <i>Journal of Hazardous Materials</i> , 2019, 365, 733-743.	12.4	59
59	Photoelectrochemical sewage treatment by a multifunctional g-C ₃ N ₄ /Ag/AgCl/BiVO ₄ photoanode for the simultaneous degradation of emerging pollutants and hydrogen production, and the disinfection of <i>E. coli</i> . <i>Water Research</i> , 2020, 168, 115166.	11.3	58
60	A proposed framework of food waste collection and recycling for renewable biogas fuel production in Hong Kong. <i>Waste Management</i> , 2016, 47, 3-10.	7.4	55
61	An integrated bioremediation process for petroleum hydrocarbons removal and odor mitigation from contaminated marine sediment. <i>Water Research</i> , 2015, 83, 21-30.	11.3	52
62	Simulation-based evolutionary optimization for energy-efficient layout plan design of high-rise residential buildings. <i>Journal of Cleaner Production</i> , 2019, 231, 1375-1388.	9.3	52
63	Life cycle carbon footprint measurement of Portland cement and ready mix concrete for a city with local scarcity of resources like Hong Kong. <i>International Journal of Life Cycle Assessment</i> , 2014, 19, 745-757.	4.7	51
64	Sustainable Wastewater Treatment Using Microsized Magnetic Hydrogel with Magnetic Separation Technology. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 15718-15724.	3.7	49
65	Biostimulation of petroleum-hydrocarbon-contaminated marine sediment with co-substrate: involved metabolic process and microbial community. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5683-5696.	3.6	48
66	Geotechnical characterization of dewatered sewage sludge for landfill disposal. <i>Canadian Geotechnical Journal</i> , 2002, 39, 1139-1149.	2.8	45
67	Facile synthesis of oxygen defective yolk-shell BiO ₂ for visible-light-driven photocatalytic inactivation of <i>Escherichia coli</i> . <i>Journal of Materials Chemistry A</i> , 2018, 6, 4997-5005.	10.3	44
68	Effect of Groundwater Inorganics on the Reductive Dechlorination of TCE by Zero-Valent Iron. <i>Water, Air, and Soil Pollution</i> , 2005, 162, 401-420.	2.4	42
69	Enhanced trimethoxypyrimidine degradation by piezophotocatalysis of BaTiO ₃ /Ag ₃ PO ₄ using mechanical vibration and visible light simultaneously. <i>Environmental Science: Nano</i> , 2019, 6, 554-564.	4.3	41
70	Comparison of greenhouse gas emission accounting methods for steel production in China. <i>Journal of Cleaner Production</i> , 2014, 83, 165-172.	9.3	40
71	Transport of Surface-Modified Nano Zero-Valent Iron (SM-NZVI) in Saturated Porous Media: Effects of Surface Stabilizer Type, Subsurface Geochemistry, and Contaminant Loading. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	40
72	Different responses of gram-negative and gram-positive bacteria to photocatalytic disinfection using solar-light-driven magnetic TiO ₂ -based material, and disinfection of real sewage. <i>Water Research</i> , 2021, 207, 117816.	11.3	40

#	ARTICLE	IF	CITATIONS
73	Influences of Humic Acid on Cr(VI) Removal by Zero-Valent Iron From Groundwater with Various Constituents: Implication for Long-Term PRB Performance. <i>Water, Air, and Soil Pollution</i> , 2011, 216, 473-483.	2.4	38
74	Modeling the Transport of Metals with Rate-Limited EDTA-Promoted Extraction and Dissolution during EDTA-Flushing of Copper-Contaminated Soils. <i>Environmental Science & Technology</i> , 2007, 41, 3660-3666.	10.0	37
75	Removal of Pb by EDTA-washing in the presence of hydrophobic organic contaminants or anionic surfactant. <i>Journal of Hazardous Materials</i> , 2008, 155, 433-439.	12.4	37
76	Influence of EDDS-to-metal molar ratio, solution pH, and soil-to-solution ratio on metal extraction under EDDS deficiency. <i>Journal of Hazardous Materials</i> , 2010, 178, 890-894.	12.4	37
77	Identifying key process parameters for uncertainty propagation in environmental life cycle assessment for sewage sludge and food waste treatment. <i>Journal of Cleaner Production</i> , 2018, 174, 966-976.	9.3	36
78	Synergistic effect of coupling zero-valent iron with iron oxide-coated sand in columns for chromate and arsenate removal from groundwater: Influences of humic acid and the reactive media configuration. <i>Water Research</i> , 2011, 45, 6575-6584.	11.3	35
79	Influence of injection conditions on EDDS-flushing of metal-contaminated soil. <i>Journal of Hazardous Materials</i> , 2011, 192, 667-675.	12.4	35
80	N-doped graphitic C3N4 nanosheets decorated with CoP nanoparticles: A highly efficient activator in singlet oxygen dominated visible-light-driven peroxymonosulfate activation for degradation of pharmaceuticals and personal care products. <i>Journal of Hazardous Materials</i> , 2021, 416, 125891.	12.4	34
81	Unravelling mechanistic reasons for differences in performance of different Ti- and Bi-based magnetic photocatalysts in photocatalytic degradation of PPCPs. <i>Science of the Total Environment</i> , 2019, 686, 878-887.	8.0	33
82	An innovative pH-independent magnetically separable hydrogel for the removal of Cu(II) and Ni(II) ions from electroplating wastewater. <i>Journal of Hazardous Materials</i> , 2020, 381, 121000.	12.4	33
83	Fabrication of MoS ₂ @BL-BiVO ₄ photoanode with promoted charge separation for photoelectrochemical sewage treatment to simultaneously degrade PPCPs, disinfect E. coli, and produce H ₂ : Performance, mechanisms, and influence factors. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120636.	20.2	33
84	Life cycle assessment of waste treatment strategy for sewage sludge and food waste in Macau: perspectives on environmental and energy production performance. <i>International Journal of Life Cycle Assessment</i> , 2016, 21, 176-189.	4.7	32
85	Transport of the arsenic (As)-loaded nano zero-valent iron in groundwater-saturated sand columns: Roles of surface modification and As loading. <i>Chemosphere</i> , 2019, 216, 428-436.	8.2	32
86	Influence of weak magnetic field and tartrate on the oxidation and sequestration of Sb(III) by zerovalent iron: Batch and semi-continuous flow study. <i>Journal of Hazardous Materials</i> , 2018, 343, 266-275.	12.4	31
87	A comprehensive approach to mitigation of embodied carbon in reinforced concrete buildings. <i>Journal of Cleaner Production</i> , 2019, 229, 582-597.	9.3	31
88	Photoelectrochemical sewage treatment by sulfite activation over an optimized BiVO ₄ photoanode to simultaneously promote PPCPs degradation, H ₂ evolution and E. coli disinfection. <i>Chemical Engineering Journal</i> , 2021, 419, 129418.	12.7	31
89	Modeling Cadmium Transport in Soils Using Sequential Extraction, Batch, and Miscible Displacement Experiments. <i>Soil Science Society of America Journal</i> , 2007, 71, 674-681.	2.2	30
90	Analyzing environmental hotspots of proposed landfill extension and advanced incineration facility in Hong Kong using life cycle assessment. <i>Journal of Cleaner Production</i> , 2014, 75, 64-74.	9.3	30

#	ARTICLE	IF	CITATIONS
91	Investigation of the available technologies and their feasibility for the conversion of food waste into fish feed in Hong Kong. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7169-7177.	5.3	30
92	Laboratory Investigation of the Migration of Hydrocarbons in Organobentonite. <i>Environmental Science & Technology</i> , 2001, 35, 620-625.	10.0	28
93	Environmental Life Cycle Assessment of Permeable Reactive Barriers: Effects of Construction Methods, Reactive Materials and Groundwater Constituents. <i>Environmental Science & Technology</i> , 2011, 45, 10148-10154.	10.0	28
94	Green photocatalytic disinfection of real sewage: efficiency evaluation and toxicity assessment of eco-friendly TiO ₂ -based magnetic photocatalyst under solar light. <i>Water Research</i> , 2021, 190, 116705.	11.3	27
95	Combining material characterization with single and multi-oxyanion adsorption for mechanistic study of chromate removal by cationic hydrogel. <i>Journal of Environmental Sciences</i> , 2011, 23, 1004-1010.	6.1	25
96	Food waste collection and recycling for value-added products: potential applications and challenges in Hong Kong. <i>Environmental Science and Pollution Research</i> , 2016, 23, 7081-7091.	5.3	25
97	Centrifuge Modeling of Light Nonaqueous Phase Liquids Transport in Unsaturated Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2004, 130, 535-539.	3.0	24
98	Environmental Risks of Nano Zerovalent Iron for Arsenate Remediation: Impacts on Cytosolic Levels of Inorganic Phosphate and MgATP ²⁻ in <i>Arabidopsis thaliana</i> . <i>Environmental Science & Technology</i> , 2018, 52, 4385-4392.	10.0	24
99	Rapid sonochemical synthesis of copper doped ZnO grafted on graphene as a multi-component hierarchically structured visible-light-driven photocatalyst. <i>Materials Research Bulletin</i> , 2021, 140, 111290.	5.2	24
100	Visible-light-driven peroxydisulfate activation in photo-electrocatalytic system using hollow-structured Pt@CeO ₂ @MoS ₂ photoanode for the degradation of pharmaceuticals and personal care products. <i>Environment International</i> , 2021, 154, 106572.	10.0	23
101	Comparative Study of the Adsorption Selectivity of Cr(VI) onto Cationic Hydrogels with Different Functional Groups. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 1713-1722.	2.4	22
102	Preparation of cross-linked magnetic chitosan with quaternary ammonium and its application for Cr(VI) and P(V) removal. <i>Journal of Environmental Sciences</i> , 2014, 26, 2379-2386.	6.1	22
103	Validation of pilot-scale phosphate polishing removal from surface water by lanthanum-based polymeric nanocomposite. <i>Chemical Engineering Journal</i> , 2021, 412, 128630.	12.7	22
104	Simultaneous removal of chromium and arsenate from contaminated groundwater by ferrous sulfate: Batch uptake behavior. <i>Journal of Environmental Sciences</i> , 2011, 23, 372-380.	6.1	20
105	Integrating life cycle assessment and multi-objective optimization for economical and environmentally sustainable supply of aggregate. <i>Journal of Cleaner Production</i> , 2016, 113, 76-85.	9.3	19
106	Computer simulation of activated carbon adsorption for multi-component systems. <i>Environment International</i> , 1996, 22, 239-252.	10.0	18
107	Pore-network modeling of colloid transport and retention considering surface deposition, hydrodynamic bridging, and straining. <i>Journal of Hydrology</i> , 2021, 603, 127020.	5.4	17
108	Effect of autotrophic denitrification on nitrate migration in sulfide-rich marine sediments. <i>Journal of Soils and Sediments</i> , 2015, 15, 1019-1028.	3.0	16

#	ARTICLE	IF	CITATIONS
109	Effects of geochemical conditions, surface modification, and arsenic (As) loadings on As release from As-loaded nano zero-valent iron in simulated groundwater. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 28-38.	2.4	16
110	Simulation of Colloid Transport and Retention Using a Pore Network Model With Roughness and Chemical Heterogeneity on Pore Surfaces. <i>Water Resources Research</i> , 2021, 57, e2020WR028571.	4.2	15
111	Scaled-up development of magnetically recyclable Fe ₃ O ₄ /La(OH) ₃ composite for river water phosphate removal: From bench-scale to pilot-scale study. <i>Science of the Total Environment</i> , 2021, 791, 148281.	8.0	15
112	Lanthanum carbonate nanoparticles confined within anion exchange resin for phosphate removal from river water: Batch and fixed-bed column study. <i>Chemical Engineering Research and Design</i> , 2022, 159, 640-651.	5.6	15
113	Conceptual model and sensitivity analysis for simulating the extraction kinetics of soil washing. <i>Journal of Soils and Sediments</i> , 2011, 11, 1221-1233.	3.0	13
114	Feasibility Study of Using Centrifuge for Investigating LNAPL Migration in Unsaturated Soils. <i>Soil and Sediment Contamination</i> , 2005, 14, 85-103.	1.9	12
115	Column study of Cr(VI) removal by cationic hydrogel for in-situ remediation of contaminated groundwater and soil. <i>Journal of Contaminant Hydrology</i> , 2011, 125, 39-46.	3.3	12
116	Sustainability analyses of embodied carbon and construction cost in high-rise buildings using different materials and structural forms. <i>HKIE Transactions</i> , 2017, 24, 216-227.	0.1	12
117	Mechanical behaviors of a synthetic paste of tire chips and paper sludge in MSW landfill daily cover applications. <i>Canadian Geotechnical Journal</i> , 2007, 44, 928-941.	2.8	11
118	Fines migration from soil daily covers in Hong Kong landfills. <i>Waste Management</i> , 2010, 30, 2047-2057.	7.4	11
119	Size Distribution and Phosphate Removal Capacity of Nano Zero-Valent Iron (nZVI): Influence of pH and Ionic Strength. <i>Water (Switzerland)</i> , 2020, 12, 2939.	2.7	10
120	Elucidating the predominant role of crystal disorders in hierarchical photocatalysts governing their charge carrier separation and associated activity in photocatalytic water treatment. <i>Journal of Colloid and Interface Science</i> , 2020, 573, 336-347.	9.4	9
121	Removal of rate-limiting organic substances in a hybrid biological reactor. <i>Water Science and Technology</i> , 1997, 35, 81-89.	2.5	9
122	Centrifuge Study of Long Term Transport Behavior and Fate of Copper in Soils at Various Saturation of Water, Compaction and Clay Content. <i>Soil and Sediment Contamination</i> , 2008, 17, 237-255.	1.9	8
123	Enhancement of nitrate-induced bioremediation in marine sediments contaminated with petroleum hydrocarbons by using microemulsions. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8296-8306.	5.3	8
124	Impact of phosphate adsorption on the mobility of PANI-supported nano zero-valent iron. <i>Vadose Zone Journal</i> , 2021, 20, e20091.	2.2	7
125	Treatment of urban river contaminated sediment with <i>ex situ</i> advanced oxidation processes: technical feasibility, environmental discharges and cost-performance analysis. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 2060-2068.	2.2	6
126	Centrifuge Modeling of Cadmium Migration in Saturated and Unsaturated Soils. <i>Soil and Sediment Contamination</i> , 2005, 14, 417-431.	1.9	5

#	ARTICLE	IF	CITATIONS
127	Uptake and toxicity studies of magnetic TiO ₂ -Based nanophotocatalyst in Arabidopsis thaliana. Chemosphere, 2019, 224, 658-667.	8.2	5
128	Multifunctional photoelectrochemical systems for coupled water treatment and high-value product generation: current status, mechanisms, remaining challenges, and future opportunities. Current Opinion in Chemical Engineering, 2021, 34, 100711.	7.8	5
129	Mechanisms of EDDS Adsorption on Goethite and Hematite Under Aqueous and Dehydrated Conditions. Environmental Engineering Science, 2013, 30, 733-741.	1.6	3
130	Computerized Methodology for Evaluating Drinking Water Treatment Technologies: Part I. Water, Air, and Soil Pollution, 2000, 117, 61-81.	2.4	2
131	Computerized Methodology for Evaluating Drinking Water Treatment Technologies: Part II. Water, Air, and Soil Pollution, 2000, 117, 83-103.	2.4	1
132	Environmental and Landfill Operation Aspects of Co-disposal of Dewatered Sewage Sludge and Municipal Solid Waste. HKIE Transactions, 2004, 11, 21-27.	0.1	0
133	Perchloroethene and Chromium Removal from Humic Acid-Containing Groundwater by Zero-Valent Iron Systems. , 2009, , .		0
134	Magnetic Hydrogels for Removal of Humic Acid from Aqueous Environment. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0