

Jinming Luo

List of Publications by Year in descending order

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113
papers

8,883
citations

20817

60
h-index

42399

92
g-index

114
all docs

114
docs citations

114
times ranked

9567
citing authors

#	ARTICLE	IF	CITATIONS
1	A Neural-Network-Based Optimal Resource Allocation Method for Secure IIoT Network. IEEE Internet of Things Journal, 2022, 9, 2538-2544.	8.7	28
2	AI Based Energy Efficient Routing Protocol for Intelligent Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1670-1679.	8.0	46
3	Improvement on the Catalytic Performance of MoO ₃ Nanobelts for NH ₃ -SCR Reaction by SnO ₂ -Modification: Enhancement of Acidity and Redox Property. Catalysis Letters, 2022, 152, 480-488.	2.6	4
4	Implanted-Electron-hydrogen boosted breaking of W-O bonds to generate crater/oxygen vacancy filled WO ₃ nanoflakes for efficient oxidation of emerging pollutant. Journal of Alloys and Compounds, 2022, 890, 161831.	5.5	12
5	Superselective Hg(II) Removal from Water Using a Thiol-Laced MOF-Based Sponge Monolith: Performance and Mechanism. Environmental Science & Technology, 2022, 56, 2677-2688.	10.0	62
6	Zeolitic imidazolate framework-8 for ratiometric fluorescence sensing tetracyclines in environmental water based on AIE effects. Analytica Chimica Acta, 2022, 1199, 339576.	5.4	26
7	High-throughput lateral and basal interface in CeO ₂ @Ti ₃ C ₂ TX: Reverse and synergistic migration of carrier for enhanced photocatalytic CO ₂ reduction. Journal of Colloid and Interface Science, 2022, 615, 716-724.	9.4	11
8	Ultrastable MOF-based foams for versatile applications. Nano Research, 2022, 15, 2961-2970.	10.4	20
9	Numerical Prediction of Duality Principle with Bloch-Floquet Periodic Boundary Condition in Fully Anisotropic FDTD. Remote Sensing, 2022, 14, 1135.	4.0	1
10	Effect of Presence versus Absence of Hypertension on Admission Heart Rate-Associated Cardiovascular Risk in Patients with Acute Coronary Syndrome. International Journal of Hypertension, 2022, 2022, 1-7.	1.3	2
11	Double-Network Hydrogel: A Potential Practical Adsorbent for Critical Metals Extraction and Recovery from Water. Environmental Science & Technology, 2022, 56, 4715-4717.	10.0	12
12	Systematic understanding of char-volatile evolution and interaction mechanism during sewage sludge pyrolysis through in-situ tracking solid-state reaction and products fate. Journal of Hazardous Materials, 2022, 432, 128669.	12.4	8
13	Construction of metal-organic framework/polymer beads for efficient lead ions removal from water: Experiment studies and full-scale performance prediction. Chemosphere, 2022, 303, 135084.	8.2	8
14	Macro-structuring Uniform Metal-Organic Framework-Based Beads for Superselective Removal of Hg(II) from Water: Performance and Modeling. ACS ES&T Engineering, 2022, 2, 1544-1555.	7.6	4
15	Radix Astragali residue-derived porous amino-laced double-network hydrogel for efficient Pb(II) removal: Performance and modeling. Journal of Hazardous Materials, 2022, 438, 129418.	12.4	14
16	Hierarchical Ag ₃ PO ₄ @ZnIn ₂ S ₄ nanoscoparium: An innovative Z-scheme photocatalyst for highly efficient and predictable tetracycline degradation. Journal of Colloid and Interface Science, 2021, 586, 708-718.	9.4	105
17	Atomic-Level and Modulated Interfaces of Photocatalyst Heterostructure Constructed by External Defect-Induced Strategy: A Critical Review. Small, 2021, 17, e2004980.	10.0	63
18	Comparative toxicity reduction potential of UV/sodium percarbonate and UV/hydrogen peroxide treatments for bisphenol A in water: An integrated analysis using chemical, computational, biological, and metabolomic approaches. Water Research, 2021, 190, 116755.	11.3	37

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19	Efficient electrochemical dehalogenation of florfenicol without discharging toxic intermediates via direct electron transfer over electrochromic WO ₃ . <i>Chemical Engineering Journal</i> , 2021, 412, 127481.	12.7	24
20	Review of Advances in Engineering Nanomaterial Adsorbents for Metal Removal and Recovery from Water: Synthesis and Microstructure Impacts. <i>ACS ES&T Engineering</i> , 2021, 1, 623-661.	7.6	61
21	Critical Review of Advances in Engineering Nanomaterial Adsorbents for Metal Removal and Recovery from Water: Mechanism Identification and Engineering Design. <i>Environmental Science & Technology</i> , 2021, 55, 4287-4304.	10.0	106
22	Metastable Facet-Controlled Cu ₂ WS ₄ Single Crystals with Enhanced Adsorption Activity for Gaseous Elemental Mercury. <i>Environmental Science & Technology</i> , 2021, 55, 5347-5356.	10.0	20
23	Progress toward Hydrogels in Removing Heavy Metals from Water: Problems and Solutions—A Review. <i>ACS ES&T Water</i> , 2021, 1, 1098-1116.	4.6	33
24	Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. <i>IEEE Internet of Things Journal</i> , 2021, 8, 5194-5201.	8.7	57
25	Research on Electromagnetic Wave Propagation Characteristics of Fully Ionized Inhomogeneous Dusty Plasma in a Magnetized BGK Model. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 1460-1467.	1.3	8
26	Isolation and identification of the bitter compound from Huangjiu. <i>Food Chemistry</i> , 2021, 349, 129133.	8.2	17
27	Gradient Hydrogen Migration Modulated with Self-Adapting S Vacancy in Copper-Doped ZnIn ₂ S ₄ Nanosheet for Photocatalytic Hydrogen Evolution. <i>ACS Nano</i> , 2021, 15, 15238-15248.	14.6	173
28	Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered Ti ₃ C ₂ O _x MXene via Adsorption Coupled with Catalytic Reduction Mechanism. <i>Environmental Science & Technology</i> , 2020, 54, 16212-16220.	10.0	92
29	Development of a highly efficient electrochemical flow-through anode based on inner in-site enhanced TiO ₂ -nanotubes array. <i>Environment International</i> , 2020, 140, 105813.	10.0	40
30	Three-dimensional electrode interface assembled from rGO nanosheets and carbon nanotubes for highly electrocatalytic oxygen reduction. <i>Chemical Engineering Journal</i> , 2019, 378, 122127.	12.7	32
31	A Critical Review on Energy Conversion and Environmental Remediation of Photocatalysts with Remodeling Crystal Lattice, Surface, and Interface. <i>ACS Nano</i> , 2019, 13, 9811-9840.	14.6	331
32	Development of a Three-Dimensional Electrochemical System Using a Blue TiO ₂ /SnO ₂ –Sb ₂ O ₃ Anode for Treating Low-Ionic-Strength Wastewater. <i>Environmental Science & Technology</i> , 2019, 53, 13784-13793.	10.0	45
33	Nanomaterial Adsorbent Design: From Bench Scale Tests to Engineering Design. <i>Environmental Science & Technology</i> , 2019, 53, 10537-10538.	10.0	33
34	Deep Dehalogenation of Florfenicol Using Crystalline CoP Nanosheet Arrays on a Ti Plate via Direct Cathodic Reduction and Atomic H. <i>Environmental Science & Technology</i> , 2019, 53, 11932-11940.	10.0	67
35	Phase-Mediated Heavy Metal Adsorption from Aqueous Solutions Using Two-Dimensional Layered MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38789-38797.	8.0	82
36	Heterogeneous degradation of carbamazepine by Prussian blue analogues in the interlayers of layered double hydroxides: performance, mechanism and toxicity evaluation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 342-352.	10.3	67

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55	Oxidation of cefalexin by thermally activated persulfate: Kinetics, products, and antibacterial activity change. <i>Journal of Hazardous Materials</i> , 2018, 354, 153-160.	12.4	74
56	Highly Selective Adsorption of Antimonite by Novel Imprinted Polymer with Microdomain Confinement Effect. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 1513-1523.	1.9	12
57	Sodium dodecyl sulfate intercalated and acrylamide anchored layered double hydroxides: A multifunctional adsorbent for highly efficient removal of Congo red. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 172-182.	9.4	78
58	Synthesis and characterizations of metal-free Semiconductor/MOFs with good stability and high photocatalytic activity for H ₂ evolution: A novel Z-Scheme heterostructured photocatalyst formed by covalent bonds. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 607-614.	20.2	209
59	Arsenic adsorption on $\hat{\pm}$ -MnO ₂ nanofibers and the significance of (1 0 0) facet as compared with (1 1 0). <i>Chemical Engineering Journal</i> , 2018, 331, 492-500.	12.7	106
60	Mechanism investigation of anoxic Cr(VI) removal by nano zero-valent iron based on XPS analysis in time scale. <i>Chemical Engineering Journal</i> , 2018, 335, 945-953.	12.7	174
61	The role of reactive oxygen species and carbonate radical in oxcarbazepine degradation via UV, UV/H ₂ O ₂ : Kinetics, mechanisms and toxicity evaluation. <i>Water Research</i> , 2018, 147, 204-213.	11.3	103
62	Pb(ⁱⁱ), Cu(ⁱⁱ) and Cd(ⁱⁱ) removal using a humic substance-based double network hydrogel in individual and multicomponent systems. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20110-20120.	10.3	106
63	TiO ₂ Nanotubes/Ag/MoS ₂ Meshy Photoelectrode with Excellent Photoelectrocatalytic Degradation Activity for Tetracycline Hydrochloride. <i>Nanomaterials</i> , 2018, 8, 666.	4.1	15
64	Impact of Chloride Ions on UV/H ₂ O ₂ and UV/Persulfate Advanced Oxidation Processes. <i>Environmental Science & Technology</i> , 2018, 52, 7380-7389.	10.0	178
65	Destruction of phenicol antibiotics using the UV/H ₂ O ₂ process: Kinetics, byproducts, toxicity evaluation and trichloromethane formation potential. <i>Chemical Engineering Journal</i> , 2018, 351, 867-877.	12.7	66
66	Mesoporous TiO ₂ with WO ₃ functioning as dopant and light-sensitizer: A highly efficient photocatalyst for degradation of organic compound. <i>Journal of Hazardous Materials</i> , 2018, 358, 44-52.	12.4	41
67	Electrocatalytic dechlorination of halogenated antibiotics via synergistic effect of chlorine-cobalt bond and atomic H [*] . <i>Journal of Hazardous Materials</i> , 2018, 358, 294-301.	12.4	44
68	Lithium ion-imprinted polymers with hydrophilic PHEMA polymer brushes: The role of grafting density in anti-interference and anti-blockage in wastewater. <i>Journal of Colloid and Interface Science</i> , 2017, 492, 146-156.	9.4	31
69	Antimony Removal from Aqueous Solution Using Novel $\hat{\pm}$ -MnO ₂ Nanofibers: Equilibrium, Kinetic, and Density Functional Theory Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2255-2264.	6.7	85
70	Selective removal Pb(ⁱⁱ) ions from wastewater using Pb(ⁱⁱ) ion-imprinted polymers with bi-component polymer brushes. <i>RSC Advances</i> , 2017, 7, 25811-25820.	3.6	26
71	Photocatalytic wastewater purification with simultaneous hydrogen production using MoS ₂ QD-decorated hierarchical assembly of ZnIn ₂ S ₄ on reduced graphene oxide photocatalyst. <i>Water Research</i> , 2017, 121, 11-19.	11.3	176
72	Self-Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7610-7614.	13.8	221

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73	Self-Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2017, 129, 7718-7722.	2.0	61
74	Microbial mediated arsenic biotransformation in wetlands. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	6.0	67
75	Micro-structured inverted pyramid texturization of Si inspired by self-assembled Cu nanoparticles. <i>Nanoscale</i> , 2017, 9, 907-914.	5.6	59
76	The preparation and performance of lignin-based activated carbon fiber adsorbents for treating gaseous streams. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 328-337.	4.4	32
77	Enhancement of Phosphate Adsorption on Zirconium Hydroxide by Ammonium Modification. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 9419-9428.	3.7	48
78	Phosphor-Doped Thermal Barrier Coatings Deposited by Air Plasma Spray for In-Depth Temperature Sensing. <i>Sensors</i> , 2016, 16, 1490.	3.8	8
79	Three-Dimensional Reduced Graphene Oxide Coupled with Mn ₃ O ₄ for Highly Efficient Removal of Sb(III) and Sb(V) from Water. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18140-18149.	8.0	120
80	Zirconia (ZrO ₂) Embedded in Carbon Nanowires via Electrospinning for Efficient Arsenic Removal from Water Combined with DFT Studies. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18912-18921.	8.0	83
81	Surface Tuning of La _{0.5} Sr _{0.5} CoO ₃ Perovskite Catalysts by Acetic Acid for NO _x Storage and Reduction. <i>Environmental Science & Technology</i> , 2016, 50, 6442-6448.	10.0	108
82	Synthesis and efficient visible light photocatalytic H ₂ evolution of a metal-free g-C ₃ N ₄ /graphene quantum dots hybrid photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 193, 103-109.	20.2	218
83	A Strategy for One-Pot Conversion of Organic Pollutants into Useful Hydrocarbons through Coupling Photodegradation of MB with Photoreduction of CO ₂ . <i>ACS Catalysis</i> , 2016, 6, 6861-6867.	11.2	128
84	Capturing Lithium from Wastewater Using a Fixed Bed Packed with 3-D MnO ₂ Ion Cages. <i>Environmental Science & Technology</i> , 2016, 50, 13002-13012.	10.0	102
85	Women With Early Menopause Have Higher Rates of Target Lesion Revascularization After Percutaneous Coronary Intervention. <i>Angiology</i> , 2016, 67, 311-316.	1.8	1
86	A highly efficient polyampholyte hydrogel sorbent based fixed-bed process for heavy metal removal in actual industrial effluent. <i>Water Research</i> , 2016, 89, 151-160.	11.3	213
87	Interface Engineering of High Efficiency Organic-Silicon Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26-30.	8.0	35
88	Comparison of MoO ₃ and WO ₃ on arsenic poisoning V ₂ O ₅ /TiO ₂ catalyst: DRIFTS and DFT study. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 692-698.	20.2	117
89	Insulin Resistance Increases the Risk of Contrast-Induced Nephropathy in Patients Undergoing Elective Coronary Intervention. <i>Angiology</i> , 2016, 67, 139-145.	1.8	13
90	Maskless inverted pyramid texturization of silicon. <i>Scientific Reports</i> , 2015, 5, 10843.	3.3	87

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91	Fabrication of novel heterostructured few layered WS ₂ -Bi ₂ WO ₆ /Bi _{3.84} WO _{6.16} O _{6.24} composites with enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 220-228.	20.2	78
92	Hierarchically mesostructured MIL-101 metal-organic frameworks with different mineralizing agents for adsorptive removal of methyl orange and methylene blue from aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1372-1383.	6.7	77
93	Ceria promotion on the potassium resistance of MnOx/TiO ₂ SCR catalysts: An experimental and DFT study. <i>Chemical Engineering Journal</i> , 2015, 269, 44-50.	12.7	92
94	Recovery of Lithium from Wastewater Using Development of Li Ion-Imprinted Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 460-467.	6.7	133
95	Synthesis of graphene oxide/schwertmannite nanocomposites and their application in Sb(V) adsorption from water. <i>Chemical Engineering Journal</i> , 2015, 270, 205-214.	12.7	98
96	Adsorptive Removal of Pb(II) Ions from Aqueous Samples with Amino-Functionalization of Metal-Organic Frameworks MIL-101(Cr). <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 1732-1743.	1.9	172
97	Fabrication and Electrochemical Treatment Application of an Al-Doped PbO ₂ Electrode with High Oxidation Capability, Oxygen Evolution Potential and Reusability. <i>Journal of the Electrochemical Society</i> , 2015, 162, E258-E262.	2.9	30
98	Removal of Cadmium(II) from Wastewater Using Novel Cadmium Ion-Imprinted Polymers. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 3253-3261.	1.9	66
99	Removal of Antimonite (Sb(III)) and Antimonate (Sb(V)) from Aqueous Solution Using Carbon Nanofibers That Are Decorated with Zirconium Oxide (ZrO ₂). <i>Environmental Science & Technology</i> , 2015, 49, 11115-11124.	10.0	233
100	Deactivation and regeneration of a commercial SCR catalyst: Comparison with alkali metals and arsenic. <i>Applied Catalysis B: Environmental</i> , 2015, 168-169, 195-202.	20.2	180
101	Hydrogen Evolution from Water Coupled with the Oxidation of As(III) in a Photocatalytic System. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28429-28437.	8.0	9
102	Metagenomic Approach Reveals Variation of Microbes with Arsenic and Antimony Metabolism Genes from Highly Contaminated Soil. <i>PLoS ONE</i> , 2014, 9, e108185.	2.5	75
103	Insight into Deactivation of Commercial SCR Catalyst by Arsenic: An Experiment and DFT Study. <i>Environmental Science & Technology</i> , 2014, 48, 13895-13900.	10.0	98
104	Optimization of silicon pyramidal emitter by self-selective Ag-assisted chemical etching. <i>RSC Advances</i> , 2014, 4, 24458.	3.6	12
105	Preparation of water-compatible molecularly imprinted polymers for caffeine with a novel ionic liquid as a functional monomer. <i>Journal of Applied Polymer Science</i> , 2013, 127, 2884-2890.	2.6	33
106	Grafting of molecularly imprinted polymers from the surface of Fe ₃ O ₄ nanoparticles containing double bond via suspension polymerization in aqueous environment: A selective sorbent for theophylline. <i>Journal of Applied Polymer Science</i> , 2011, 121, 1930-1937.	2.6	21
107	Photocatalytic reduction of Cr(VI) on WO ₃ doped long TiO ₂ nanotube arrays in the presence of citric acid. <i>Applied Catalysis B: Environmental</i> , 2010, 94, 142-149.	20.2	227
108	High Efficient Photocatalytic Degradation of p-Nitrophenol on a Unique Cu ₂ O/TiO ₂ p-n Heterojunction Network Catalyst. <i>Environmental Science & Technology</i> , 2010, 44, 7641-7646.	10.0	448

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109	Fabrication of CdSe Nanoparticles Sensitized Long TiO ₂ Nanotube Arrays for Photocatalytic Degradation of Anthracene-9-carboxylic Acid under Green Monochromatic Light. Journal of Physical Chemistry C, 2010, 114, 4783-4789.	3.1	89
110	Sensitive Detection of Polycyclic Aromatic Hydrocarbons Using CdTe Quantum Dot-Modified TiO ₂ Nanotube Array through Fluorescence Resonance Energy Transfer. Environmental Science & Technology, 2010, 44, 7884-7889.	10.0	63
111	Biosorption of cadmium(II) from aqueous solutions by industrial fungus Rhizopus cohnii. Transactions of Nonferrous Metals Society of China, 2010, 20, 1104-1111.	4.2	58
112	Carbon-Nanotube-Guiding Oriented Growth of Gold Shrobs on TiO ₂ Nanotube Arrays. Journal of Physical Chemistry C, 2010, 114, 7694-7699.	3.1	20
113	Analysis of Gaussian beam broadening and scintillation index in anisotropic plasma turbulence. Waves in Random and Complex Media, 0, , 1-16.	2.7	6