Jinming Luo

List of Publications by Year in descending order

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20817 42399 8,883 113 60 92 citations h-index g-index papers 114 114 114 9567 docs citations times ranked citing authors all docs

#	Article	lF	CITATIONS
1	High Efficient Photocatalytic Degradation of p-Nitrophenol on a Unique Cu ₂ 0/TiO ₂ p-n Heterojunction Network Catalyst. Environmental Science & Technology, 2010, 44, 7641-7646.	10.0	448
2	A Critical Review on Energy Conversion and Environmental Remediation of Photocatalysts with Remodeling Crystal Lattice, Surface, and Interface. ACS Nano, 2019, 13, 9811-9840.	14.6	331
3	Efficient heavy metal removal from industrial melting effluent using fixed-bed process based on porous hydrogel adsorbents. Water Research, 2018, 131, 246-254.	11.3	291
4	Removal of Antimonite (Sb(III)) and Antimonate (Sb(V)) from Aqueous Solution Using Carbon Nanofibers That Are Decorated with Zirconium Oxide (ZrO ₂). Environmental Science & amp; Technology, 2015, 49, 11115-11124.	10.0	233
5	Photocatalytic reduction of Cr(VI) on WO3 doped long TiO2 nanotube arrays in the presence of citric acid. Applied Catalysis B: Environmental, 2010, 94, 142-149.	20.2	227
6	Selfâ€Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2017, 56, 7610-7614.	13.8	221
7	Synthesis and efficient visible light photocatalytic H2 evolution of a metal-free g-C3N4/graphene quantum dots hybrid photocatalyst. Applied Catalysis B: Environmental, 2016, 193, 103-109.	20.2	218
8	A highly efficient polyampholyte hydrogel sorbent based fixed-bed process for heavy metal removal in actual industrial effluent. Water Research, 2016, 89, 151-160.	11.3	213
9	Synthesis and characterizations of metal-free Semiconductor/MOFs with good stability and high photocatalytic activity for H2 evolution: A novel Z-Scheme heterostructured photocatalyst formed by covalent bonds. Applied Catalysis B: Environmental, 2018, 220, 607-614.	20.2	209
10	Deactivation and regeneration of a commercial SCR catalyst: Comparison with alkali metals and arsenic. Applied Catalysis B: Environmental, 2015, 168-169, 195-202.	20.2	180
11	Impact of Chloride Ions on UV/H ₂ O ₂ and UV/Persulfate Advanced Oxidation Processes. Environmental Science & Environmental Science	10.0	178
12	Photocatalytic wastewater purification with simultaneous hydrogen production using MoS 2 QD-decorated hierarchical assembly of ZnIn 2 S 4 on reduced graphene oxide photocatalyst. Water Research, 2017, 121, 11-19.	11.3	176
13	Mechanism investigation of anoxic Cr(VI) removal by nano zero-valent iron based on XPS analysis in time scale. Chemical Engineering Journal, 2018, 335, 945-953.	12.7	174
14	Gradient Hydrogen Migration Modulated with Self-Adapting S Vacancy in Copper-Doped Znln ₂ S ₄ Nanosheet for Photocatalytic Hydrogen Evolution. ACS Nano, 2021, 15, 15238-15248.	14.6	173
15	Adsorptive Removal of Pb(II) Ions from Aqueous Samples with Amino-Functionalization of Metal–Organic Frameworks MIL-101(Cr). Journal of Chemical & Chem	1.9	172
16	Electrochemical oxidation and advanced oxidation processes using a 3D hexagonal Co3O4 array anode for 4-nitrophenol decomposition coupled with simultaneous CO2 conversion to liquid fuels via a flower-like CuO cathode. Water Research, 2019, 150, 330-339.	11.3	147
17	Ultrafine palladium nanoparticles supported on 3D self-supported Ni foam for cathodic dechlorination of florfenicol. Chemical Engineering Journal, 2019, 359, 894-901.	12.7	136
18	Recovery of Lithium from Wastewater Using Development of Li Ion-Imprinted Polymers. ACS Sustainable Chemistry and Engineering, 2015, 3, 460-467.	6.7	133

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19	A Strategy for One-Pot Conversion of Organic Pollutants into Useful Hydrocarbons through Coupling Photodegradation of MB with Photoreduction of CO ₂ . ACS Catalysis, 2016, 6, 6861-6867.	11.2	128
20	3D hierarchical porous-structured biochar aerogel for rapid and efficient phenicol antibiotics removal from water. Chemical Engineering Journal, 2019, 368, 639-648.	12.7	124
21	Tuning Pb(II) Adsorption from Aqueous Solutions on Ultrathin Iron Oxychloride (FeOCl) Nanosheets. Environmental Science & Envi	10.0	121
22	Three-Dimensional Reduced Graphene Oxide Coupled with Mn ₃ O ₄ for Highly Efficient Removal of Sb(III) and Sb(V) from Water. ACS Applied Materials & Samp; Interfaces, 2016, 8, 18140-18149.	8.0	120
23	Comparison of MoO3 and WO3 on arsenic poisoning V2O5/TiO2 catalyst: DRIFTS and DFT study. Applied Catalysis B: Environmental, 2016, 181, 692-698.	20.2	117
24	Oxidation of Microcystin-LR via Activation of Peroxymonosulfate Using Ascorbic Acid: Kinetic Modeling and Toxicity Assessment. Environmental Science & Environmental Science & 2018, 52, 4305-4312.	10.0	114
25	Sea-urchin-structure g-C3N4 with narrow bandgap (˜2.0 eV) for efficient overall water splitting under visible light irradiation. Applied Catalysis B: Environmental, 2019, 249, 275-281.	20.2	110
26	Surface Tuning of La _{0.5} Sr _{0.5} CoO ₃ Perovskite Catalysts by Acetic Acid for NO _{<i>x</i>} Storage and Reduction. Environmental Science &	10.0	108
27	Arsenic adsorption on \hat{l} ±-MnO2 nanofibers and the significance of (1 0 0) facet as compared with (1 1 0). Chemical Engineering Journal, 2018, 331, 492-500.	12.7	106
28	Pb(<scp>ii</scp>), Cu(<scp>ii</scp>) and Cd(<scp>ii</scp>) removal using a humic substance-based double network hydrogel in individual and multicomponent systems. Journal of Materials Chemistry A, 2018, 6, 20110-20120.	10.3	106
29	Critical Review of Advances in Engineering Nanomaterial Adsorbents for Metal Removal and Recovery from Water: Mechanism Identification and Engineering Design. Environmental Science & Emp; Technology, 2021, 55, 4287-4304.	10.0	106
30	Hierarchical Ag3PO4@ZnIn2S4 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
31	The role of reactive oxygen species and carbonate radical in oxcarbazepine degradation via UV, UV/H2O2: Kinetics, mechanisms and toxicity evaluation. Water Research, 2018, 147, 204-213.	11.3	103
32	Capturing Lithium from Wastewater Using a Fixed Bed Packed with 3-D MnO ₂ Ion Cages. Environmental Science & Environ	10.0	102
33	Insight into Deactivation of Commercial SCR Catalyst by Arsenic: An Experiment and DFT Study. Environmental Science & Environm	10.0	98
34	Synthesis of graphene oxide/schwertmannite nanocomposites and their application in Sb(V) adsorption from water. Chemical Engineering Journal, 2015, 270, 205-214.	12.7	98
35	Ceria promotion on the potassium resistance of MnOx/TiO2 SCR catalysts: An experimental and DFT study. Chemical Engineering Journal, 2015, 269, 44-50.	12.7	92
36	Degradation of dyes by peroxymonosulfate activated by ternary CoFeNi-layered double hydroxide: Catalytic performance, mechanism and kinetic modeling. Journal of Colloid and Interface Science, 2018, 515, 92-100.	9.4	92

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37	Highly Efficient and Selective Hg(II) Removal from Water Using Multilayered Ti ₃ C ₂ O <i>_x</i> MXene via Adsorption Coupled with Catalytic Reduction Mechanism. Environmental Science & Environme	10.0	92
38	Fabrication of CdSe Nanoparticles Sensitized Long TiO ₂ Nanotube Arrays for Photocatalytic Degradation of Anthracene-9-carbonxylic Acid under Green Monochromatic Light. Journal of Physical Chemistry C, 2010, 114, 4783-4789.	3.1	89
39	Maskless inverted pyramid texturization of silicon. Scientific Reports, 2015, 5, 10843.	3.3	87
40	Antimony Removal from Aqueous Solution Using Novel α-MnO ₂ Nanofibers: Equilibrium, Kinetic, and Density Functional Theory Studies. ACS Sustainable Chemistry and Engineering, 2017, 5, 2255-2264.	6.7	85
41	Zirconia (ZrO ₂) Embedded in Carbon Nanowires via Electrospinning for Efficient Arsenic Removal from Water Combined with DFT Studies. ACS Applied Materials & Enpy; Interfaces, 2016, 8, 18912-18921.	8.0	83
42	Phase-Mediated Heavy Metal Adsorption from Aqueous Solutions Using Two-Dimensional Layered MoS ₂ . ACS Applied Materials & Interfaces, 2019, 11, 38789-38797.	8.0	82
43	The individual and Co-exposure degradation of benzophenone derivatives by UV/H2O2 and UV/PDS in different water matrices. Water Research, 2019, 159, 102-110.	11.3	79
44	Fabrication of novel heterostructured few layered WS2-Bi2WO6/Bi3.84W0.16O6.24 composites with enhanced photocatalytic performance. Applied Catalysis B: Environmental, 2015, 179, 220-228.	20.2	78
45	Sodium dodecyl sulfate intercalated and acrylamide anchored layered double hydroxides: A multifunctional adsorbent for highly efficient removal of Congo red. Journal of Colloid and Interface Science, 2018, 521, 172-182.	9.4	78
46	Hierarchically mesostructured MIL-101 metal–organic frameworks with different mineralizing agents for adsorptive removal of methyl orange and methylene blue from aqueous solution. Journal of Environmental Chemical Engineering, 2015, 3, 1372-1383.	6.7	77
47	Metagenomic Approach Reveals Variation of Microbes with Arsenic and Antimony Metabolism Genes from Highly Contaminated Soil. PLoS ONE, 2014, 9, e108185.	2.5	75
48	Deactivation Mechanism of Multipoisons in Cement Furnace Flue Gas on Selective Catalytic Reduction Catalysts. Environmental Science & Environmental Sc	10.0	75
49	Oxidation of cefalexin by thermally activated persulfate: Kinetics, products, and antibacterial activity change. Journal of Hazardous Materials, 2018, 354, 153-160.	12.4	74
50	Oxidation Mechanisms of the UV/Free Chlorine Process: Kinetic Modeling and Quantitative Structure Activity Relationships. Environmental Science & Envi	10.0	70
51	Microbial mediated arsenic biotransformation in wetlands. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	6.0	67
52	Deep Dehalogenation of Florfenicol Using Crystalline CoP Nanosheet Arrays on a Ti Plate via Direct Cathodic Reduction and Atomic H. Environmental Science & Environmental Science & 2019, 53, 11932-11940.	10.0	67
53	Heterogeneous degradation of carbamazepine by Prussian blue analogues in the interlayers of layered double hydroxides: performance, mechanism and toxicity evaluation. Journal of Materials Chemistry A, 2019, 7, 342-352.	10.3	67
54	Removal of Cadmium(II) from Wastewater Using Novel Cadmium Ion-Imprinted Polymers. Journal of Chemical & Chemi	1.9	66

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55	Destruction of phenicol antibiotics using the UV/H2O2 process: Kinetics, byproducts, toxicity evaluation and trichloromethane formation potential. Chemical Engineering Journal, 2018, 351, 867-877.	12.7	66
56	Sensitive Detection of Polycyclic Aromatic Hydrocarbons Using CdTe Quantum Dot-Modified TiO ₂ Nanotube Array through Fluorescence Resonance Energy Transfer. Environmental Science & Enchnology, 2010, 44, 7884-7889.	10.0	63
57	Atomicâ€Level and Modulated Interfaces of Photocatalyst Heterostructure Constructed by External Defectâ€Induced Strategy: A Critical Review. Small, 2021, 17, e2004980.	10.0	63
58	Superselective Hg(II) Removal from Water Using a Thiol-Laced MOF-Based Sponge Monolith: Performance and Mechanism. Environmental Science & Eamp; Technology, 2022, 56, 2677-2688.	10.0	62
59	Selfâ€Optimization of the Active Site of Molybdenum Disulfide by an Irreversible Phase Transition during Photocatalytic Hydrogen Evolution. Angewandte Chemie, 2017, 129, 7718-7722.	2.0	61
60	Sulfadiazine destruction by chlorination in a pilot-scale water distribution system: Kinetics, pathway, and bacterial community structure. Journal of Hazardous Materials, 2019, 366, 88-97.	12.4	61
61	Review of Advances in Engineering Nanomaterial Adsorbents for Metal Removal and Recovery from Water: Synthesis and Microstructure Impacts. ACS ES&T Engineering, 2021, 1, 623-661.	7.6	61
62	Micro-structured inverted pyramid texturization of Si inspired by self-assembled Cu nanoparticles. Nanoscale, 2017, 9, 907-914.	5.6	59
63	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
64	Energy-Efficient Resource Allocation Strategy in Massive IoT for Industrial 6G Applications. IEEE Internet of Things Journal, 2021, 8, 5194-5201.	8.7	57
65	Enhancement of Phosphate Adsorption on Zirconium Hydroxide by Ammonium Modification. Industrial & Engineering Chemistry Research, 2017, 56, 9419-9428.	3.7	48
66	Al Based Energy Efficient Routing Protocol for Intelligent Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1670-1679.	8.0	46
67	Development of a Three-Dimensional Electrochemical System Using a Blue TiO ₂ /SnO ₂ –Sb ₂ O ₃ Anode for Treating Low-lonic-Strength Wastewater. Environmental Science & Technology, 2019, 53, 13784-13793.	10.0	45
68	Electrocatalytic dechlorination of halogenated antibiotics via synergistic effect of chlorine-cobalt bond and atomic H*. Journal of Hazardous Materials, 2018, 358, 294-301.	12.4	44
69	Mesoporous TiO2 with WO3 functioning as dopant and light-sensitizer: A highly efficient photocatalyst for degradation of organic compound. Journal of Hazardous Materials, 2018, 358, 44-52.	12.4	41
70	Development of a highly efficient electrochemical flow-through anode based on inner in-site enhanced TiO2-nanotubes array. Environment International, 2020, 140, 105813.	10.0	40
71	Difference in anisotropic etching characteristics of alkaline and copper based acid solutions for single-crystalline Si. Scientific Reports, 2018, 8, 3408.	3.3	39
72	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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73	Interface Engineering of High Efficiency Organic-Silicon Heterojunction Solar Cells. ACS Applied Materials & Solar Cells.	8.0	35
74	New insight on the adsorption capacity of metallogels for antimonite and antimonate removal: From experimental to theoretical study. Journal of Hazardous Materials, 2018, 346, 218-225.	12.4	35
75	Preparation of waterâ€compatible molecularly imprinted polymers for caffeine with a novel ionic liquid as a functional monomer. Journal of Applied Polymer Science, 2013, 127, 2884-2890.	2.6	33
76	Nanomaterial Adsorbent Design: From Bench Scale Tests to Engineering Design. Environmental Science & Engineering Design. Environmental Environmental Science & Environmental	10.0	33
77	Progress toward Hydrogels in Removing Heavy Metals from Water: Problems and Solutions—A Review. ACS ES&T Water, 2021, 1, 1098-1116.	4.6	33
78	The preparation and performance of lignin-based activated carbon fiber adsorbents for treating gaseous streams. Frontiers of Chemical Science and Engineering, 2017, 11, 328-337.	4.4	32
79	Three-dimensional electrode interface assembled from rGO nanosheets and carbon nanotubes for highly electrocatalytic oxygen reduction. Chemical Engineering Journal, 2019, 378, 122127.	12.7	32
80	Lithium ion-imprinted polymers with hydrophilic PHEMA polymer brushes: The role of grafting density in anti-interference and anti-blockage in wastewater. Journal of Colloid and Interface Science, 2017, 492, 146-156.	9.4	31
81	Fabrication and Electrochemical Treatment Application of an Al-Doped PbO ₂ Electrode with High Oxidation Capability, Oxygen Evolution Potential and Reusability. Journal of the Electrochemical Society, 2015, 162, E258-E262.	2.9	30
82	Carbon quantum dot-sensitized and tunable luminescence of Ca ₁₉ Mg ₂ (PO ₄)(sub>14:Ln ³⁺ (Ln ³⁺ =)	Tj ETQq0	0 0 ggBT /Ov
83	<i>via</i> a sol–gel process. Journal of Materials Chemistry C, 2019, 7, 2361-2375. A Neural-Network-Based Optimal Resource Allocation Method for Secure IIoT Network. IEEE Internet of Things Journal, 2022, 9, 2538-2544.	8.7	28
84	Oneâ€"step reductive synthesis of Ti3+ selfâ€"doped elongated anatase TiO2 nanowires combined with reduced graphene oxide for adsorbing and degrading waste engine oil. Journal of Hazardous Materials, 2019, 378, 120752.	12.4	27
85	Selective removal Pb(<scp>ii</scp>) ions form wastewater using Pb(<scp>ii</scp>) ion-imprinted polymers with bi-component polymer brushes. RSC Advances, 2017, 7, 25811-25820.	3.6	26
86	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
87	Efficient electrochemical dehalogenation of florfenicol without discharging toxic intermediates via direct electron transfer over electrochromic WO3. Chemical Engineering Journal, 2021, 412, 127481.	12.7	24
88	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. Journal of Applied Polymer Science, 2011, 121, 1930-1937.	2.6	21
89	Carbon-Nanotube-Guiding Oriented Growth of Gold Shrubs on TiO ₂ Nanotube Arrays. Journal of Physical Chemistry C, 2010, 114, 7694-7699.	3.1	20
90	Metastable Facet-Controlled Cu ₂ WS ₄ Single Crystals with Enhanced Adsorption Activity for Gaseous Elemental Mercury. Environmental Science & Environmenta	10.0	20

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91	Ultrastable MOF-based foams for versatile applications. Nano Research, 2022, 15, 2961-2970.	10.4	20
92	Electrochemical Pretreatment for Sludge Sulfide Control without Chemical Dosing: A Mechanistic Study. Environmental Science & Echnology, 2019, 53, 14559-14567.	10.0	17
93	Isolation and identification of the bitter compound from Huangjiu. Food Chemistry, 2021, 349, 129133.	8.2	17
94	TiO2 Nanotubes/Ag/MoS2 Meshy Photoelectrode with Excellent Photoelectrocatalytic Degradation Activity for Tetracycline Hydrochloride. Nanomaterials, 2018, 8, 666.	4.1	15
95	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
96	Insulin Resistance Increases the Risk of Contrast-Induced Nephropathy in Patients Undergoing Elective Coronary Intervention. Angiology, 2016, 67, 139-145.	1.8	13
97	Optimization of silicon pyramidal emitter by self-selective Ag-assisted chemical etching. RSC Advances, 2014, 4, 24458.	3.6	12
98	Highly Selective Adsorption of Antimonite by Novel Imprinted Polymer with Microdomain Confinement Effect. Journal of Chemical & Engineering Data, 2018, 63, 1513-1523.	1.9	12
99	Implanted-Electron-hydrogen boosted breaking of W O bonds to generate crater/oxygen vacancy filled WO3 nanoflakes for efficient oxidation of emerging pollutant. Journal of Alloys and Compounds, 2022, 890, 161831.	5.5	12
100	Double-Network Hydrogel: A Potential Practical Adsorbent for Critical Metals Extraction and Recovery from Water. Environmental Science & Environmental Science & 2022, 56, 4715-4717.	10.0	12
101	High-throughput lateral and basal interface in CeO2@Ti3C2TX: Reverse and synergistic migration of carrier for enhanced photocatalytic CO2 reduction. Journal of Colloid and Interface Science, 2022, 615, 716-724.	9.4	11
102	Hydrogen Evolution from Water Coupled with the Oxidation of As(III) in a Photocatalytic System. ACS Applied Materials & Diterfaces, 2015, 7, 28429-28437.	8.0	9
103	Phosphor-Doped Thermal Barrier Coatings Deposited by Air Plasma Spray for In-Depth Temperature Sensing. Sensors, 2016, 16, 1490.	3.8	8
104	Research on Electromagnetic Wave Propagation Characteristics of Fully Ionized Inhomogeneous Dusty Plasma in a Magnetized BGK Model. IEEE Transactions on Plasma Science, 2021, 49, 1460-1467.	1.3	8
105	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
106	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
107	Analysis of Gaussian beam broadening and scintillation index in anisotropic plasma turbulence. Waves in Random and Complex Media, 0 , 1 - 16 .	2.7	6
108	Improvement on the Catalytic Performance of MoO3 Nanobelts for NH3-SCR Reaction by SnO2-Modification: Enhancement of Acidity and Redox Property. Catalysis Letters, 2022, 152, 480-488.	2.6	4

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109	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
110	Admission Heart Rate Is Associated With Coronary Artery Disease Severity and Complexity in Patients With Acute Coronary Syndrome. Angiology, 2019, 70, 774-781.	1.8	2
111	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
112	Women With Early Menopause Have Higher Rates of Target Lesion Revascularization After Percutaneous Coronary Intervention. Angiology, 2016, 67, 311-316.	1.8	1
113	Numerical Prediction of Duality Principle with Bloch-Floquet Periodic Boundary Condition in Fully Anisotropic FDTD. Remote Sensing, 2022, 14, 1135.	4.0	1