Shenglian Luo

List of Publications by Year
in descending order

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107 papers	8,176 citations	47 h-index	88 g-index
		47006	48315
108 all docs	108 docs citations	108 times ranked	9946 citing authors

#	Article	IF	Citations
1	MoS₂ Quantum Dot Growth Induced by S Vacancies in a ZnIn₂S₄ Monolayer: Atomic-Level Heterostructure for Photocatalytic Hydrogen Production. ACS Nano, 2018, 12, 751-758.	14.6	500
2	Vertical single or few-layer MoS2 nanosheets rooting into TiO2 nanofibers for highly efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2015, 164, 1-9.	20.2	465
3	Identification and Regulation of Active Sites on Nanodiamonds: Establishing a Highly Efficient Catalytic System for Oxidation of Organic Contaminants. Advanced Functional Materials, 2018, 28, 1705295.	14.9	370
4	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
5	Scalable one-step production of porous oxygen-doped g-C3N4 nanorods with effective electron separation for excellent visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2018, 224, 1-9.	20.2	269
6	Highly efficient visible-light photocatalytic performance of Ag/AgIn5S8 for degradation of tetracycline hydrochloride and treatment of real pharmaceutical industry wastewater. Chemical Engineering Journal, 2018, 333, 423-433.	12.7	260
7	Interaction of Cd-hyperaccumulator Solanum nigrum L. and functional endophyte Pseudomonas sp. Lk9 on soil heavy metals uptake. Soil Biology and Biochemistry, 2014, 68, 300-308.	8.8	255
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	Biosorption of cadmium by endophytic fungus (EF) Microsphaeropsis sp. LSE10 isolated from cadmium hyperaccumulator Solanum nigrum L.. Bioresource Technology, 2010, 101, 1668-1674.	9.6	202
10	Fabrication of platinum-deposited carbon nitride nanotubes by a one-step solvothermal treatment strategy and their efficient visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2015, 165, 428-437.	20.2	200
11	Efficient Removal of Heavy Metal Ions with An EDTA Functionalized Chitosan/Polyacrylamide Double Network Hydrogel. ACS Sustainable Chemistry and Engineering, 2017, 5, 843-851.	6.7	177
12	The facile fabrication of novel visible-light-driven Z-scheme CuInS2/Bi2WO6 heterojunction with intimate interface contact by in situ hydrothermal growth strategy for extraordinary photocatalytic performance. Chemical Engineering Journal, 2019, 356, 819-829.	12.7	177
13	Silver phosphate-based Z-Scheme photocatalytic system with superior sunlight photocatalytic activities and anti-photocorrosion performance. Applied Catalysis B: Environmental, 2017, 208, 1-13.	20.2	174
14	Gradient Hydrogen Migration Modulated with Self-Adapting S Vacancy in Copper-Doped ZnIn₂S₄ Nanosheet for Photocatalytic Hydrogen Evolution. ACS Nano, 2021, 15, 15238-15248.	14.6	173
15	Endophyte-assisted promotion of biomass production and metal-uptake of energy crop sweet sorghum by plant-growth-promoting endophyte Bacillus sp. SLS18. Applied Microbiology and Biotechnology, 2012, 93, 1745-1753.	3.6	160
16	Application of plant growth-promoting endophytes (PGPE) isolated from Solanum nigrum L. for phytoextraction of Cd-polluted soils. Applied Soil Ecology, 2010, 46, 383-389.	4.3	158
17	Fast adsorption of heavy metal ions by waste cotton fabrics based double network hydrogel and influencing factors insight. Journal of Hazardous Materials, 2018, 344, 1034-1042.	12.4	149
18	Understanding of Neighboring Feâ€N₄â€C and Coâ€N₄â€C Dual Active Centers for Oxygen Reduction Reaction. Advanced Functional Materials, 2021, 31, 2011289.	14.9	149

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19	A double network gel as low cost and easy recycle adsorbent: Highly efficient removal of Cd(II) and Pb(II) pollutants from wastewater. Journal of Hazardous Materials, 2015, 300, 153-160.	12.4	139
20	Sponge-like polysiloxane-graphene oxide gel as a highly efficient and renewable adsorbent for lead and cadmium metals removal from wastewater. Chemical Engineering Journal, 2015, 280, 275-282.	12.7	117
21	New double network hydrogel adsorbent: Highly efficient removal of Cd(II) and Mn(II) ions in aqueous solution. Chemical Engineering Journal, 2015, 275, 179-188.	12.7	117
22	Novel thymine-functionalized MIL-101 prepared by post-synthesis and enhanced removal of Hg 2+ from water. Journal of Hazardous Materials, 2016, 306, 313-322.	12.4	117
23	Omnidirectional enhancement of photocatalytic hydrogen evolution over hierarchical â€œcauline leafâ€• nanoarchitectures. Applied Catalysis B: Environmental, 2016, 186, 88-96.	20.2	117
24	A three-dimensional graphitic carbon nitride belt network for enhanced visible light photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 19003-19010.	10.3	111
25	Sea-urchin-structure g-C3N4 with narrow bandgap (Ëœ2.0â€‰eV) for efficient overall water splitting under visible light irradiation. Applied Catalysis B: Environmental, 2019, 249, 275-281.	20.2	110
26	One-step fabrication of g-C 3 N 4 nanosheets/TiO 2 hollow microspheres heterojunctions with atomic level hybridization and their application in the multi-component synergistic photocatalytic systems. Applied Catalysis B: Environmental, 2018, 222, 88-98.	20.2	108
27	Rapid and efficient treatment of wastewater with high-concentration heavy metals using a new type of hydrogel-based adsorption process. Bioresource Technology, 2016, 219, 451-457.	9.6	106
28	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
29	Capturing Lithium from Wastewater Using a Fixed Bed Packed with 3-D MnO₂ Ion Cages. Environmental Science & Technology, 2016, 50, 13002-13012.	10.0	102
30	Engineering a FRET strategy to achieve a ratiometric two-photon fluorescence response with a large emission shift and its application to fluorescence imaging. Chemical Science, 2015, 6, 2360-2365.	7.4	101
31	Isolation and characterization of endophytic bacterium LRE07 from cadmium hyperaccumulator Solanum nigrum L. and its potential for remediation. Applied Microbiology and Biotechnology, 2011, 89, 1637-1644.	3.6	93
32	Porous nitrogen-rich carbon materials from carbon self-repairing g-C₃N₄ assembled with graphene for high-performance supercapacitor. Journal of Materials Chemistry A, 2016, 4, 14307-14315.	10.3	93
33	Fabrication of CdSe Nanoparticles Sensitized Long TiO₂ 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
34	WS2 quantum dots seeding in Bi2S3 nanotubes: A novel Vis-NIR light sensitive photocatalyst with low-resistance junction interface for CO2 reduction. Chemical Engineering Journal, 2020, 389, 123430.	12.7	82
35	Selective Separation of Cu(II) from Aqueous Solution with a Novel Cu(II) Surface Magnetic Ion-Imprinted Polymer. Industrial & Engineering Chemistry Research, 2011, 50, 6355-6361.	3.7	79
36	Bâ€“Nâ€“B Bond Embedded Phenalenyl and Its Anions. Journal of the American Chemical Society, 2017, 139, 15760-15767.	13.7	78

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37	Synthesis and Luminescence Properties of YNbO₄:A (A = Eu³⁺ and/or) Tj ETQq1 1 0.784314 rgBT /Overlock 1 2014, 118, 27516-27524.	3.1	75
38	Sol-hydrothermal synthesis of inorganic-framework molecularly imprinted TiO2/SiO2 nanocomposite and its preferential photocatalytic degradation towards target contaminant. Journal of Hazardous Materials, 2014, 278, 108-115.	12.4	63
39	Atomicâ€Level and Modulated Interfaces of Photocatalyst Heterostructure Constructed by External Defectâ€Induced Strategy: A Critical Review. Small, 2021, 17, e2004980.	10.0	63
40	Fast photoelectro-reduction of CrVI over MoS2@TiO2 nanotubes on Ti wire. Journal of Hazardous Materials, 2017, 329, 230-240.	12.4	62
41	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
42	Fabrication of C/X-TiO 2 @C 3 N 4 NTs (X = N, F, Cl) composites by using phenolic organic pollutants as raw materials and their visible-light photocatalytic performance in different photocatalytic systems. Applied Catalysis B: Environmental, 2016, 187, 269-280.	20.2	60
43	A g-C₃N₄@Au@SrAl₂O₄:Eu²⁺,Dy³⁺composite as an efficient plasmonic photocatalyst for round-the-clock environmental purification and hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 19173-19186.	10.3	60
44	Fluorine removal and calcium fluoride recovery from rare-earth smelting wastewater using ï¬‚uidized bed crystallization process. Journal of Hazardous Materials, 2019, 373, 313-320.	12.4	60
45	Highly Efficient and Selective Synthesis of (E)â€Î±,Î²â€Unsaturated Ketones by Crossed Condensation of Ketones and Aldehydes Catalyzed by an Airâ€Stable Cationic Organobismuth Perfluorooctanesulfonate. Advanced Synthesis and Catalysis, 2010, 352, 153-162.	4.3	54
46	Interfacial Charge Transfer between Silver Phosphate and W₂N₃ Induced by Nitrogen Vacancies Enhances Removal of Î²â€Lactam Antibiotics. Advanced Functional Materials, 2022, 32, 2108814.	14.9	52
47	Fabrication of powder and modular H3PW12O40/Ag3PO4 composites: Novel visible-light photocatalysts for ultra-fast degradation of organic pollutants in water. Applied Catalysis B: Environmental, 2020, 278, 119313.	20.2	48
48	Bi₂MoO₆ Quantum Dots In Situ Grown on Reduced Graphene Oxide Layers: A Novel Electron-Rich Interface for Efficient CO₂ Reduction. ACS Applied Materials & Interfaces, 2020, 12, 25861-25874.	8.0	46
49	Co₃O₄ Nanocrystals with an Oxygen Vacancy-Rich and Highly Reactive (222) Facet on Carbon Nitride Scaffolds for Efficient Photocatalytic Oxygen Evolution. ACS Applied Materials & Interfaces, 2020, 12, 44608-44616.	8.0	43
50	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
51	Prednisolone degradation by UV/chlorine process: Influence factors, transformation products and mechanism. Chemosphere, 2018, 212, 56-66.	8.2	41
52	Dechlorination-Hydroxylation of Atrazine to Hydroxyatrazine with Thiosulfate: A Detoxification Strategy in Seconds. Environmental Science & Technology, 2019, 53, 3208-3216.	10.0	41
53	Oxygen migration triggering molybdenum exposure in oxygen vacancy-rich ultra-thin Bi2MoO6 nanoflakes: Dual binding sites governing selective CO2 reduction into liquid hydrocarbons. Journal of Energy Chemistry, 2021, 61, 281-289.	12.9	40
54	Facile separation catalyst system: direct diastereoselective synthesis of (E)-Î±,Î²-unsaturated ketones catalyzed by an air-stable Lewis acidic/basic bifunctional organobismuth complex in ionic liquids. Green Chemistry, 2010, 12, 1767.	9.0	38

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55	Advances in microbial remediation for heavy metal treatment: a mini review. Journal of Leather Science and Engineering, 2021, 3, .	6.0	38
56	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
57	Electrochemical synthesis of polyaniline in surface-attached poly(acrylic acid) network, and its application to the electrocatalytic oxidation of ascorbic acid. Mikrochimica Acta, 2010, 168, 231-237.	5.0	35
58	Novel carboxylation treatment and characterization of multiwalled carbon nanotubes for simultaneous sensitive determination of adenine and guanine in DNA. Mikrochimica Acta, 2010, 169, 33-40.	5.0	34
59	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
60	Comparative toxicity of pristine graphene oxide and its carboxyl, imidazole or polyethylene glycol functionalized products to Daphnia magna: A two generation study. Environmental Pollution, 2018, 237, 218-227.	7.5	33
61	Comparative effects of graphene and graphene oxide on copper toxicity to Daphnia magna: Role of surface oxygenic functional groups. Environmental Pollution, 2018, 236, 962-970.	7.5	33
62	Progress toward Hydrogels in Removing Heavy Metals from Water: Problems and Solutionsâ€”A Review. ACS ES&T Water, 2021, 1, 1098-1116.	4.6	33
63	Electrochemical determination of paraquat using a DNA-modified carbon ionic liquid electrode. Mikrochimica Acta, 2011, 174, 89-95.	5.0	30
64	Enhancement of cadmium bioremediation by endophytic bacterium Bacillus sp. L14 using industrially used metabolic inhibitors (DCC or DNP). Journal of Hazardous Materials, 2011, 190, 1079-1082.	12.4	30
65	Large Aromatic Hydrocarbon Radical Cation with Global Aromaticity and State-Associated Magnetic Activity. Chemistry of Materials, 2020, 32, 5927-5936.	6.7	29
66	Resourceful treatment of harsh high-nitrogen rare earth element tailings (REEs) wastewater by carbonate activated Chlorococcum sp. microalgae. Journal of Hazardous Materials, 2022, 423, 127000.	12.4	28
67	Electroanalysis of Bisphenol A at a Multiwalled Carbon Nanotubesâ€gold Nanoparticles Modified Glassy Carbon Electrode. Electroanalysis, 2009, 21, 2491-2494.	2.9	27
68	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
69	Nonenzymatic hydrogen peroxide sensor based on a Prussian Blue-modified carbon ionic liquid electrode. Mikrochimica Acta, 2009, 165, 393-398.	5.0	26
70	Visual observation of hydrogen bubble generation from monodisperse CoP QDs on ultrafine g-C3N4 fiber under visible light irradiation. Journal of Materials Chemistry A, 2019, 7, 25908-25914.	10.3	26
71	The mechanism of chronic toxicity to Daphnia magna induced by graphene suspended in a water column. Environmental Science: Nano, 2016, 3, 1405-1415.	4.3	23
72	A novel one-step electrochemical codeposition of carbon nanotubes-DNA hybrids and tiron doped polypyrrole for selective and sensitive determination of dopamine. Mikrochimica Acta, 2010, 171, 109-116.	5.0	22

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73	Grafting of molecularly imprinted polymers from the surface of Fe₃O₄ 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
74	Towards perylenequinonoid: Effective application to reversible fluorescent probe for monitoring hydrogen persulfide in solvents and living cells. Talanta, 2017, 164, 529-533.	5.5	21
75	Synergistic removal of cadmium and organic matter by a microalgae-endophyte symbiotic system (MESS): An approach to improve the application potential of plant-derived biosorbents. Environmental Pollution, 2020, 261, 114177.	7.5	21
76	Methanol sensor based on the combined electrocatalytic oxidative effect of chitosan-immobilized nickel(II) and the antibiotic cefixime on the oxidation of methanol in alkaline medium. Mikrochimica Acta, 2009, 164, 351-355.	5.0	20
77	Carbon-Nanotube-Guiding Oriented Growth of Gold Shrubs on TiO₂ Nanotube Arrays. Journal of Physical Chemistry C, 2010, 114, 7694-7699.	3.1	20
78	UV/Sodium percarbonate for bisphenol A treatment in water: Impact of water quality parameters on the formation of reactive radicals. Water Research, 2022, 219, 118457.	11.3	20
79	Electrocatalytic oxidation of the reduced nicotinamide adenine dinucleotide at carbon ionic liquid electrode modified with polythionine/multi-walled carbon nanotubes composite. Mikrochimica Acta, 2010, 168, 215-220.	5.0	19
80	Simple sensor for simultaneous determination of dihydroxybenzene isomers. Journal of Solid State Electrochemistry, 2012, 16, 883-889.	2.5	17
81	Diagonally Ï€-Extended Perylene-Based Bis(heteroacene) for Chiroptical Activity and Integrating Luminescence with Carrier-Transporting Capability. Organic Letters, 2019, 21, 1417-1421.	4.6	17
82	Cationic organobismuth complex as an effective catalyst for conversion of CO2 into cyclic carbonates. Frontiers of Environmental Science and Engineering in China, 2009, 3, 32-37.	0.8	16
83	Effects of ultrasonic radiation on induction period and nucleation kinetics of sodium sulfate. Korean Journal of Chemical Engineering, 2014, 31, 807-811.	2.7	15
84	Fabrication of In-rich AgInS2 nanoplates and nanotubes by a facile low-temperature co-precipitation strategy and their excellent visible-light photocatalytic mineralization performance. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	14
85	Photoelectrocatalytic reduction of CO2 on titania nanotube arrays modified by Pd and RGO. Journal of Materials Science, 2018, 53, 10351-10362.	3.7	14
86	Broad-Band Excited and Tunable Luminescence of CaTbAl3O7:RE3+ (RE3+ = Ce3+ and/or Eu3+) Nanocrystalline Phosphors for Near-UV WLEDs. Inorganic Chemistry, 2020, 59, 12348-12361.	4.0	14
87	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
88	A mini review on chemical fixation of CO2: Absorption and catalytic conversion into cyclic carbonates. Frontiers of Chemical Engineering in China, 2010, 4, 163-171.	0.6	13
89	A Stable Nâ€Annulated Peryleneâ€Bridged Bisphenoxyl Diradicaloid and the Corresponding Boron Trifluoride Complex. Chemistry - A European Journal, 2017, 23, 9419-9424.	3.3	13
90	Metal chelate affinity to immobilize horseradish peroxidase on functionalized agarose/CNTs composites for the detection of catechol. Science China Chemistry, 2011, 54, 1319-1326.	8.2	12

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91	A facile approach toward 1,2-diazabenzo[ghi]perylene derivatives: structures and electronic properties. Chemical Communications, 2017, 53, 6740-6743.	4.1	12
92	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
93	Fabrication of bio-based acidic nonmetals co-doped TiO2 with core/shell structure and their unique photocatalytic performance for the rapid reduction of aqueous Cr(VI) under original pH and visible-light conditions. Applied Catalysis A: General, 2019, 575, 142-151.	4.3	11
94	Specific spatial transfer PdCl42â^' to [X-Pd-Y] by strong coordination interaction in a 3D palladium ion-imprinted polymer with footprint cavity. Chemical Engineering Journal, 2021, 405, 126613.	12.7	11
95	The synergistic photocatalytic effects of surface-modified g-C₃N₄ in simple and complex pollution systems based on a macro-thermodynamic model. Environmental Science: Nano, 2021, 8, 217-232.	4.3	11
96	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
97	Direct electrochemical sensing of glucose using glucose oxidase immobilized on functionalized carbon nanotubes via a novel metal chelate-based affinity method. Mikrochimica Acta, 2012, 177, 159-166.	5.0	10
98	Transformation of Atrazine to Hydroxyatrazine with Alkali-H₂O₂ Treatment: An Efficient Dechlorination Strategy under Alkaline Conditions. ACS ES&T Water, 2021, 1, 1868-1877.	4.6	9
99	Effect of ultrasound on sodium arsenate induction time and crystallization property during solution crystallization processes. Acoustical Physics, 2014, 60, 356-360.	1.0	8
100	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
101	Fabrication of Tiron Doped Poly-Pyrrole/Carbon Nanotubes on Low Resistance Monolayer-Modified Glassy Carbon Electrode for Selective Determination of Dopamine. Analytical Letters, 2011, 44, 1226-1240.	1.8	7
102	TiO₂ nanotube supported metallocene catalysts for the preparation of nanofiber, nanosheet, and floccule of polyethylene. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 812-817.	2.1	7
103	Spectrometric investigations on the binding of dopamine to bovine serum albumin. Physics and Chemistry of Liquids, 2012, 50, 453-464.	1.2	6
104	Direct electrodeposition of the DNA-Ni2+ complex onto a glassy carbon electrode for sensing methanol in alkaline medium. Mikrochimica Acta, 2010, 168, 135-140.	5.0	5
105	New Insights into the Degradation of Atrazine by Ultraviolet-Based Techniques. ACS ES&T Water, 2021, 1, 958-968.	4.6	5
106	Application of 1-Alkyl-3-methylimidazolium-Based Ionic Liquids as Background Electrolytes in Nonaqueous Capillary Electrophoresis for the Analysis of Coptidis Alkaloids. Analytical Letters, 2012, 45, 460-472.	1.8	4
107	Direct Electron Transfer Reactivity of Hemoglobin in Cationic Gemini Surfactantâ€“Poly (Allylamine) Hydrochloride Composite Film on Glassy Carbon Electrode. Analytical Letters, 2011, 44, 585-594.	1.8	1