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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	Atomicâ€Level and Modulated Interfaces of Photocatalyst Heterostructure Constructed by External Defectâ€Induced Strategy: A Critical Review. Small, 2021, 17, e2004980.	10.0	63
11	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
12	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
13	Advances in microbial remediation for heavy metal treatment: a mini review. Journal of Leather Science and Engineering, 2021, 3, .	6.0	38
14	New Insights into the Degradation of Atrazine by Ultraviolet-Based Techniques. ACS ES&T Water, 2021, 1, 958-968.	4.6	5
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	Large Aromatic Hydrocarbon Radical Cation with Global Aromaticity and State-Associated Magnetic Activity. Chemistry of Materials, 2020, 32, 5927-5936.	6.7	29
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	Dechlorination-Hydroxylation of Atrazine to Hydroxyatrazine with Thiosulfate: A Detoxification Strategy in Seconds. Environmental Science & Technology, 2019, 53, 3208-3216.	10.0	41
33	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
34	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
35	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
36	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

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37	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
38	Photoelectrocatalytic reduction of CO2 on titania nanotube arrays modified by Pd and RGO. Journal of Materials Science, 2018, 53, 10351-10362.	3.7	14
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	Prednisolone degradation by UV/chlorine process: Influence factors, transformation products and mechanism. Chemosphere, 2018, 212, 56-66.	8.2	41
49	Fast photoelectro-reduction of CrVI over MoS2@TiO2 nanotubes on Ti wire. Journal of Hazardous Materials, 2017, 329, 230-240.	12.4	62
50	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
51	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
52	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
53	A facile approach toward 1,2-diazabenzo[ghi]perylene derivatives: structures and electronic properties. Chemical Communications, 2017, 53, 6740-6743.	4.1	12
54	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

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55	Bâ€“Nâ€“B Bond Embedded Phenalenyl and Its Anions. Journal of the American Chemical Society, 2017, 139, 15760-15767.	13.7	78
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	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
64	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
65	Omnidirectional enhancement of photocatalytic hydrogen evolution over hierarchical â€œcauline leafâ€• nanoarchitectures. Applied Catalysis B: Environmental, 2016, 186, 88-96.	20.2	117
66	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
67	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
68	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
69	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
70	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
71	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
72	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

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73	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
74	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
75	Effect of ultrasound on sodium arsenate induction time and crystallization property during solution crystallization processes. Acoustical Physics, 2014, 60, 356-360.	1.0	8
76	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
77	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
78	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
79	Spectrometric investigations on the binding of dopamine to bovine serum albumin. Physics and Chemistry of Liquids, 2012, 50, 453-464.	1.2	6
80	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
81	Simple sensor for simultaneous determination of dihydroxybenzene isomers. Journal of Solid State Electrochemistry, 2012, 16, 883-889.	2.5	17
82	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
83	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
84	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
85	Electrochemical determination of paraquat using a DNA-modified carbon ionic liquid electrode. Mikrochimica Acta, 2011, 174, 89-95.	5.0	30
86	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
87	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
88	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
89	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
90	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

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91	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
92	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
93	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
94	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
95	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
96	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
97	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
98	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
99	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
100	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
101	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
102	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
103	Carbon-Nanotube-Guiding Oriented Growth of Gold Shrubs on TiO₂ Nanotube Arrays. Journal of Physical Chemistry C, 2010, 114, 7694-7699.	3.1	20
104	Electroanalysis of Bisphenol A at a Multiwalled Carbon Nanotubesâ€gold Nanoparticles Modified Glassy Carbon Electrode. Electroanalysis, 2009, 21, 2491-2494.	2.9	27
105	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
106	Nonenzymatic hydrogen peroxide sensor based on a Prussian Blue-modified carbon ionic liquid electrode. Mikrochimica Acta, 2009, 165, 393-398.	5.0	26
107	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