

Shengwei Liu

List of Publications by Year in descending order

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29994

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96
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all docs

97
docs citations

97
times ranked

12954
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective photocatalytic oxidation of gaseous ammonia at ppb level over Pt and F modified TiO ₂ . Applied Catalysis B: Environmental, 2022, 300, 120688.	10.8	30
2	Engineering metal-organic frameworks for efficient photocatalytic conversion of CO ₂ into solar fuels. Coordination Chemistry Reviews, 2022, 450, 214245.	9.5	64
3	Extracellular proteins of <i>Desulfovibrio vulgaris</i> as adsorbents and redox shuttles promote biomineralization of antimony. Journal of Hazardous Materials, 2022, 426, 127795.	6.5	13
4	Recovering solar fuels from photocatalytic CO ₂ reduction over W ⁶⁺ -incorporated crystalline g-C ₃ N ₄ nanorods by synergetic modulation of active centers. Applied Catalysis B: Environmental, 2022, 304, 120978.	10.8	88
5	iTRAQ-derived quantitative proteomics uncovers the neuroprotective property of bexarotene in a mice model of cerebral ischemia/reperfusion injury. Saudi Pharmaceutical Journal, 2022, 30, 585-594.	1.2	3
6	Two-Dimensional High-Entropy Metal Phosphorus Trichalcogenides for Enhanced Hydrogen Evolution Reaction. ACS Nano, 2022, 16, 3593-3603.	7.3	77
7	Î ² -Caryophyllene suppresses ferroptosis induced by cerebral ischemia reperfusion via activation of the NRF2/HO-1 signaling pathway in MCAO/R rats. Phytomedicine, 2022, 102, 154112.	2.3	41
8	2D Transition Metal Dichalcogenides: Design, Modulation, and Challenges in Electrocatalysis. Advanced Materials, 2021, 33, e1907818.	11.1	284
9	Electrocatalysts: 2D Transition Metal Dichalcogenides: Design, Modulation, and Challenges in Electrocatalysis (Adv. Mater. 6/2021). Advanced Materials, 2021, 33, 2170045.	11.1	9
10	Differentially expressed genes induced by Î ² -caryophyllene in a rat model of cerebral ischemia-reperfusion injury. Life Sciences, 2021, 273, 119293.	2.0	9
11	Synergetic Molecular Oxygen Activation and Catalytic Oxidation of Formaldehyde over Defective MIL-88B(Fe) Nanorods at Room Temperature. Environmental Science & Technology, 2021, 55, 8341-8350.	4.6	98
12	Synergetic surface modulation of ZnO/Pt@ZIF-8 hybrid nanorods for enhanced photocatalytic CO ₂ valorization. Applied Catalysis B: Environmental, 2021, 287, 119934.	10.8	91
13	Controlled Synthesis of Hollow Bimetallic Prussian Blue Analog for Conversion into Efficient Oxygen Evolution Electrocatalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 1319-1328.	3.2	39
14	Formation of assimilable organic carbon (AOC) during drinking water disinfection: A microbiological prospect of disinfection byproducts. Environment International, 2020, 135, 105389.	4.8	33
15	Ternary g-C ₃ N ₄ /ZnNCN@ZIF-8 Hybrid Photocatalysts with Robust Interfacial Interactions and Enhanced CO ₂ Reduction Performance. Solar Rrl, 2020, 4, 1900440.	3.1	49
16	Bifunctional S-scheme g-C ₃ N ₄ /Bi/BiVO ₄ hybrid photocatalysts toward artificial carbon cycling. Chinese Journal of Catalysis, 2020, 41, 140-153.	6.9	204
17	Hydrogen producing water treatment through mesoporous TiO ₂ nanofibers with oriented nanocrystals. Chinese Journal of Catalysis, 2020, 41, 50-61.	6.9	46
18	Different effects of fluoride and phosphate anions on TiO ₂ photocatalysis (rutile). Catalysis Science and Technology, 2020, 10, 6552-6561.	2.1	15

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19	Hydrogen production from natural organic matter via cascading oxic-anoxic photocatalytic processes: An energy recovering water purification technology. <i>Water Research</i> , 2020, 175, 115684.	5.3	23
20	Enhancing and Complementary Mechanisms of Synergistic Action of Acori Tatarinowii Rhizoma and Codonopsis Radix for Alzheimer's Disease Based on Systems Pharmacology. <i>Evidence-based Complementary and Alternative Medicine</i> , 2020, 2020, 1-26.	0.5	4
21	Effects of fluorine on photocatalysis. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1451-1467.	6.9	96
22	Enhancing the room-temperature catalytic degradation of formaldehyde through constructing surface lewis pairs on carbon-based catalyst. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118992.	10.8	38
23	Efficient transformative HCHO capture by defective $\text{NH}_2\text{-LiO-66(Zr)}$ at room temperature. <i>Environmental Science: Nano</i> , 2019, 6, 2931-2936.	2.2	38
24	Positive effect of Fe^{3+} ions on Bi_2WO_6 , Bi_2MoO_6 and BiVO_4 photocatalysis for phenol oxidation under visible light. <i>Catalysis Science and Technology</i> , 2019, 9, 4413-4421.	2.1	19
25	Role of Ni^{2+} ions in TiO_2 and Pt/TiO_2 photocatalysis for phenol degradation in aqueous suspensions. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117903.	10.8	34
26	Bexarotene Attenuates Focal Cerebral Ischemia's Reperfusion Injury via the Suppression of JNK/Caspase-3 Signaling Pathway. <i>Neurochemical Research</i> , 2019, 44, 2809-2820.	1.6	16
27	Boosting Hydrogen Transfer during Volmer Reaction at Oxides/Metal Nanocomposites for Efficient Alkaline Hydrogen Evolution. <i>ACS Energy Letters</i> , 2019, 4, 3002-3010.	8.8	142
28	Co-doped MgAl-LDHs nanosheets supported Au nanoparticles for complete catalytic oxidation of HCHO at room temperature. <i>Applied Surface Science</i> , 2019, 487, 260-271.	3.1	59
29	Beyond 1T phase? Synergistic Electronic Structure and Defects Engineering in $2\text{H-MoS}_2\text{Se}$ Nanosheets for Enhanced Hydrogen Evolution Reaction and Sodium Storage. <i>ChemCatChem</i> , 2019, 11, 3200-3211.	1.8	21
30	Single-crystalline melem ($\text{C}_6\text{N}_{10}\text{H}_6$) nanorods: a novel stable molecular crystal photocatalyst with modulated charge potentials and dynamics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13234-13241.	5.2	22
31	Synergetic degradation of VOCs by vacuum ultraviolet photolysis and catalytic ozonation over $\text{Mn}_x\text{Ce/ZSM-5}$. <i>Journal of Hazardous Materials</i> , 2019, 364, 770-779.	6.5	74
32	Three-dimensional Fe_2O_3 /amino-functionalization carbon nanotube sponge for adsorption and oxidative removal of tetrabromobisphenol A. <i>Separation and Purification Technology</i> , 2019, 211, 359-367.	3.9	36
33	Larger Adsorption Effect of Fluoride than Phosphate on Phenol Degradation over the Irradiated Anatase TiO_2 and Pt/TiO_2 . <i>Acta Chimica Sinica</i> , 2019, 77, 351.	0.5	1
34	Cationic nickel metal-organic frameworks for adsorption of negatively charged dye molecules. <i>Data in Brief</i> , 2018, 18, 1952-1961.	0.5	14
35	Selective and adsorptive removal of anionic dyes and CO_2 with azolium-based metal-organic frameworks. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 214-223.	5.0	41
36	TiO_2 nanodots anchored on nitrogen-doped carbon nanotubes encapsulated cobalt nanoparticles as photocatalysts with photo-enhanced catalytic activity towards the pollutant removal. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 158-166.	5.0	32

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37	MOF-Based Transparent Passivation Layer Modified ZnO Nanorod Arrays for Enhanced Photo-Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1800101.	10.2	143
38	Promotional role of Mn doping on catalytic oxidation of VOCs over mesoporous TiO ₂ under vacuum ultraviolet (VUV) irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 78-87.	10.8	95
39	Enhanced photocatalytic CO ₂ valorization over TiO ₂ hollow microspheres by synergetic surface tailoring and Au decoration. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24245-24255.	5.2	113
40	Synergetic tuning charge dynamics and potentials of Ag ₃ PO ₄ photocatalysts with boosting activity and stability by facile in-situ fluorination. <i>Applied Surface Science</i> , 2018, 455, 1137-1149.	3.1	42
41	Sustained production of H ₂ O ₂ in alkaline water solution using borate and phosphate-modified Au/TiO ₂ photocatalysts. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1018-1022.	1.6	27
42	Degradation of TBBPA and BPA from aqueous solution using organo-montmorillonite supported nanoscale zero-valent iron. <i>Chemical Engineering Journal</i> , 2017, 309, 717-724.	6.6	72
43	Performance and Mechanism of Piezo-Catalytic Degradation of 4-Chlorophenol: Finding of Effective Piezo-Dechlorination. <i>Environmental Science & Technology</i> , 2017, 51, 6560-6569.	4.6	245
44	Activation of peroxymonosulfate by nitrogen-functionalized sludge carbon for efficient degradation of organic pollutants in water. <i>Bioresource Technology</i> , 2017, 241, 244-251.	4.8	124
45	Efficient degradation of tetrabromobisphenol A by synergistic integration of Fe/Ni bimetallic catalysis and microbial acclimation. <i>Water Research</i> , 2017, 122, 471-480.	5.3	52
46	Enhanced photocatalytic conversion of greenhouse gas CO ₂ into solar fuels over g-C ₃ N ₄ nanotubes with decorated transparent ZIF-8 nanoclusters. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 1-10.	10.8	298
47	Effect of F-Doping on the Photocatalytic Activity and Microstructures of Nanocrystalline TiO ₂ Powders. <i>Nanostructure Science and Technology</i> , 2016, , 187-200.	0.1	3
48	Fabrication and enhanced CO ₂ reduction performance of N-self-doped TiO ₂ microsheet photocatalyst by bi-cocatalyst modification. <i>Journal of CO₂ Utilization</i> , 2016, 16, 442-449.	3.3	99
49	ZIF-8 derived bimodal carbon modified ZnO photocatalysts with enhanced photocatalytic CO ₂ reduction performance. <i>RSC Advances</i> , 2016, 6, 59998-60006.	1.7	64
50	Efficient removal of gaseous formaldehyde in air using hierarchical titanate nanospheres with in situ amine functionalization. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18161-18168.	1.3	30
51	Nitrogen-doped TiO ₂ microsheets with enhanced visible light photocatalytic activity for CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2015, 36, 2127-2134.	6.9	197
52	Ternary reduced-graphene-oxide/Bi ₂ MoO ₆ /Au nanocomposites with enhanced photocatalytic activity under visible light. <i>Journal of Alloys and Compounds</i> , 2015, 649, 28-34.	2.8	57
53	Amine-Functionalized Titanate Nanosheet-Assembled Yolk@Shell Microspheres for Efficient Cocatalyst-Free Visible-Light Photocatalytic CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8166-8175.	4.0	128
54	Facile synthesis of few-layer-thick carbon nitride nanosheets by liquid ammonia-assisted lithiation method and their photocatalytic redox properties. <i>RSC Advances</i> , 2014, 4, 32690-32697.	1.7	63

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55	Porous Fluorinated SnO ₂ Hollow Nanospheres: Transformative Self-assembly and Photocatalytic Inactivation of Bacteria. ACS Applied Materials & Interfaces, 2014, 6, 2407-2414.	4.0	72
56	Enhanced photocatalytic H ₂ -production activity of TiO ₂ using Ni(NO ₃) ₂ as an additive. Physical Chemistry Chemical Physics, 2013, 15, 12033-12039.	1.3	79
57	Ionic-Liquid-Assisted Synthesis of Uniform Fluorinated B/Codoped TiO ₂ Nanocrystals and Their Enhanced Visible-Light Photocatalytic Activity. Chemistry - A European Journal, 2013, 19, 2433-2441.	1.7	147
58	Tandem photocatalytic oxidation of Rhodamine B over surface fluorinated bismuth vanadate crystals. Journal of Materials Chemistry, 2012, 22, 17759.	6.7	114
59	Enhanced photovoltaic performance of dye-sensitized solar cells based on TiO ₂ nanosheets/graphene composite films. Journal of Materials Chemistry, 2012, 22, 17027.	6.7	200
60	Unique photocatalytic oxidation reactivity and selectivity of TiO ₂ @graphene nanocomposites. Nanoscale, 2012, 4, 3193.	2.8	176
61	Fluorinated semiconductor photocatalysts: Tunable synthesis and unique properties. Advances in Colloid and Interface Science, 2012, 173, 35-53.	7.0	159
62	Enhanced photocatalytic activity of mesoporous TiO ₂ aggregates by embedding carbon nanotubes as electron-transfer channel. Physical Chemistry Chemical Physics, 2011, 13, 3491-3501.	1.3	476
63	Improved visible-light photocatalytic activity of porous carbon self-doped ZnO nanosheet-assembled flowers. CrystEngComm, 2011, 13, 2533.	1.3	328
64	A simple cation exchange approach to Bi-doped ZnS hollow spheres with enhanced UV and visible-light photocatalytic H ₂ -production activity. Journal of Materials Chemistry, 2011, 21, 14655.	6.7	203
65	Anatase TiO ₂ with Dominant High-Energy {001} Facets: Synthesis, Properties, and Applications. Chemistry of Materials, 2011, 23, 4085-4093.	3.2	669
66	Ag ₂ O as a New Visible-Light Photocatalyst: Self-Stability and High Photocatalytic Activity. Chemistry - A European Journal, 2011, 17, 7777-7780.	1.7	423
67	Superparamagnetic γ -Fe ₂ O ₃ @SiO ₂ @TiO ₂ composite microspheres with superior photocatalytic properties. Applied Catalysis B: Environmental, 2011, 104, 12-20.	10.8	209
68	Low-temperature hydrothermal synthesis of highly photoactive mesoporous spherical TiO ₂ nanocrystalline. Journal of Physics and Chemistry of Solids, 2010, 71, 507-510.	1.9	20
69	Ion-Exchange Synthesis and Enhanced Visible-Light Photoactivity of CuS/ZnS Nanocomposite Hollow Spheres. Journal of Physical Chemistry C, 2010, 114, 13642-13649.	1.5	274
70	In-Flight Formation of Nano-Crystalline Titanium Dioxide Powder in a Plasma Jet and Its Characterization. Plasma Science and Technology, 2010, 12, 426-432.	0.7	5
71	Tunable Photocatalytic Selectivity of Hollow TiO ₂ Microspheres Composed of Anatase Polyhedra with Exposed {001} Facets. Journal of the American Chemical Society, 2010, 132, 11914-11916.	6.6	979
72	Effects of annealing on the microstructures and photoactivity of fluorinated N-doped TiO ₂ . Physical Chemistry Chemical Physics, 2010, 12, 12308.	1.3	96

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73	Characterization and visible light photocatalytic properties of nanocrystalline TiO ₂ synthesized by reactive plasma processing. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1540-1549.	3.0	27
74	Hydrothermal preparation and photocatalytic activity of mesoporous Au@TiO ₂ nanocomposite microspheres. <i>Journal of Colloid and Interface Science</i> , 2009, 334, 58-64.	5.0	200
75	Spray-hydrolytic synthesis of highly photoactive mesoporous anatase nanospheres for the photocatalytic degradation of toluene in air. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 160-166.	10.8	58
76	Synergetic Codoping in Fluorinated Ti _{1-x} Zr _x O ₂ Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10712-10717.	1.5	82
77	Spontaneous construction of photoactive hollow TiO ₂ microspheres and chains. <i>Nanotechnology</i> , 2009, 20, 325606.	1.3	73
78	Effect of PSS on morphology and optical properties of ZnO. <i>Journal of Colloid and Interface Science</i> , 2008, 326, 433-438.	5.0	95
79	Electrochemical properties of TiO ₂ hollow microspheres from a template-free and green wet-chemical route. <i>Journal of Power Sources</i> , 2008, 180, 869-874.	4.0	45
80	Cooperative self-construction and enhanced optical absorption of nanoplates-assembled hierarchical Bi ₂ WO ₆ flowers. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1048-1055.	1.4	131
81	Effects of calcination temperatures on photocatalytic activity of SnO ₂ /TiO ₂ composite films prepared by an EPD method. <i>Journal of Hazardous Materials</i> , 2008, 154, 1141-1148.	6.5	188
82	Enhanced Photocatalytic Activity of Hollow Anatase Microspheres by Sn ⁴⁺ Incorporation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2050-2057.	1.5	96
83	Novel preparation and photocatalytic activity of one-dimensional TiO ₂ hollow structures. <i>Nanotechnology</i> , 2007, 18, 065604.	1.3	56
84	Effects of polyvinylpyrrolidone and cetyltrimethylammonium bromide on morphology of lead tungstate particles. <i>Journal of Alloys and Compounds</i> , 2007, 433, 73-78.	2.8	13
85	Microstructures and photoactivity of mesoporous anatase hollow microspheres fabricated by fluoride-mediated self-transformation. <i>Journal of Catalysis</i> , 2007, 249, 59-66.	3.1	359
86	Template-free Hydrothermal Synthesis of CuO/Cu ₂ O Composite Hollow Microspheres. <i>Chemistry of Materials</i> , 2007, 19, 4327-4334.	3.2	450
87	Poly(methacrylic acid)-mediated morphosynthesis of PbWO ₄ micro-crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 87, 113-120.	1.1	33
88	A sonochemical route to visible-light-driven high-activity BiVO ₄ photocatalyst. <i>Journal of Molecular Catalysis A</i> , 2006, 252, 120-124.	4.8	340
89	Sonochemical synthesis of nanocrystallite Bi ₂ O ₃ as a visible-light-driven photocatalyst. <i>Applied Catalysis A: General</i> , 2006, 308, 105-110.	2.2	356
90	Silver vanadium oxides nanobelts and their chemical reduction to silver nanobelts. <i>Journal of Crystal Growth</i> , 2006, 293, 404-408.	0.7	22

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91	Polymer-directed large-scale synthesis of single-crystal vanadium oxide nanobelts. <i>Materials Chemistry and Physics</i> , 2006, 95, 206-210.	2.0	15
92	Controlled Synthesis of Novel Flower-shaped BaCrO ₄ Crystals. <i>Chemistry Letters</i> , 2005, 34, 564-565.	0.7	10
93	Effects of PSMA additive on morphology of barite particles. <i>Journal of Crystal Growth</i> , 2005, 275, 572-579.	0.7	34
94	Facile fabrication of monodispersed mesoporous celestine particles with peanut-shaped morphology. <i>Journal of Crystal Growth</i> , 2005, 279, 461-465.	0.7	19
95	Fabrication and characterization of Ag@TiO ₂ multiphase nanocomposite thin films with enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2005, 60, 211-221.	10.8	660