Shengwei Liu

List of Publications by Year in descending order

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		30070	37204
95	11,750	54	96
papers	citations	h-index	g-index
97	97	97	12954
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	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.	13.7	979
2	Anatase TiO ₂ with Dominant High-Energy {001} Facets: Synthesis, Properties, and Applications. Chemistry of Materials, 2011, 23, 4085-4093.	6.7	669
3	Fabrication and characterization of Ag–TiO2 multiphase nanocomposite thin films with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2005, 60, 211-221.	20.2	660
4	Enhanced photocatalytic activity of mesoporous TiO ₂ aggregates by embedding carbon nanotubes as electron-transfer channel. Physical Chemistry Chemical Physics, 2011, 13, 3491-3501.	2.8	476
5	Template-free Hydrothermal Synthesis of CuO/Cu ₂ O Composite Hollow Microspheres. Chemistry of Materials, 2007, 19, 4327-4334.	6.7	450
6	Ag ₂ O as a New Visibleâ€Light Photocatalyst: Selfâ€Stability and High Photocatalytic Activity. Chemistry - A European Journal, 2011, 17, 7777-7780.	3.3	423
7	Microstructures and photoactivity of mesoporous anatase hollow microspheres fabricated by fluoride-mediated self-transformation. Journal of Catalysis, 2007, 249, 59-66.	6.2	359
8	Sonochemical synthesis of nanocrystallite Bi2O3 as a visible-light-driven photocatalyst. Applied Catalysis A: General, 2006, 308, 105-110.	4.3	356
9	A sonochemical route to visible-light-driven high-activity BiVO4 photocatalyst. Journal of Molecular Catalysis A, 2006, 252, 120-124.	4.8	340
10	Improved visible-light photocatalytic activity of porous carbon self-doped ZnO nanosheet-assembled flowers. CrystEngComm, 2011, 13, 2533.	2.6	328
11	Enhanced photocatalytic conversion of greenhouse gas CO2 into solar fuels over g-C3N4 nanotubes with decorated transparent ZIF-8 nanoclusters. Applied Catalysis B: Environmental, 2017, 211, 1-10.	20.2	298
12	2D Transition Metal Dichalcogenides: Design, Modulation, and Challenges in Electrocatalysis. Advanced Materials, 2021, 33, e1907818.	21.0	284
13	Ion-Exchange Synthesis and Enhanced Visible-Light Photoactivity of CuS/ZnS Nanocomposite Hollow Spheres. Journal of Physical Chemistry C, 2010, 114, 13642-13649.	3.1	274
14	Performance and Mechanism of Piezo-Catalytic Degradation of 4-Chlorophenol: Finding of Effective Piezo-Dechlorination. Environmental Science & Eamp; Technology, 2017, 51, 6560-6569.	10.0	245
15	Superparamagnetic \hat{l}^3 -Fe2O3@SiO2@TiO2 composite microspheres with superior photocatalytic properties. Applied Catalysis B: Environmental, 2011, 104, 12-20.	20.2	209
16	Bifunctional S-scheme g-C3N4/Bi/BiVO4 hybrid photocatalysts toward artificial carbon cycling. Chinese Journal of Catalysis, 2020, 41, 140-153.	14.0	204
17	A simple cation exchange approach to Bi-doped ZnS hollow spheres with enhanced UV and visible-light photocatalytic H2-production activity. Journal of Materials Chemistry, 2011, 21, 14655.	6.7	203
18	Hydrothermal preparation and photocatalytic activity of mesoporous Au–TiO2 nanocomposite microspheres. Journal of Colloid and Interface Science, 2009, 334, 58-64.	9.4	200

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19	Enhanced photovoltaic performance of dye-sensitized solar cells based on TiO2 nanosheets/graphene composite films. Journal of Materials Chemistry, 2012, 22, 17027.	6.7	200
20	Nitrogen-doped TiO2 microsheets with enhanced visible light photocatalytic activity for CO2 reduction. Chinese Journal of Catalysis, 2015, 36, 2127-2134.	14.0	197
21	Effects of calcination temperatures on photocatalytic activity of SnO2/TiO2 composite films prepared by an EPD method. Journal of Hazardous Materials, 2008, 154, 1141-1148.	12.4	188
22	Unique photocatalytic oxidation reactivity and selectivity of TiO2–graphene nanocomposites. Nanoscale, 2012, 4, 3193.	5.6	176
23	Fluorinated semiconductor photocatalysts: Tunable synthesis and unique properties. Advances in Colloid and Interface Science, 2012, 173, 35-53.	14.7	159
24	lonicâ€Liquidâ€Assisted Synthesis of Uniform Fluorinated B/Câ€Codoped TiO ₂ Nanocrystals and Their Enhanced Visibleâ€Light Photocatalytic Activity. Chemistry - A European Journal, 2013, 19, 2433-2441.	3.3	147
25	MOFâ€Based Transparent Passivation Layer Modified ZnO Nanorod Arrays for Enhanced Photoâ€Electrochemical Water Splitting. Advanced Energy Materials, 2018, 8, 1800101.	19.5	143
26	Boosting Hydrogen Transfer during Volmer Reaction at Oxides/Metal Nanocomposites for Efficient Alkaline Hydrogen Evolution. ACS Energy Letters, 2019, 4, 3002-3010.	17.4	142
27	Cooperative self-construction and enhanced optical absorption of nanoplates-assembled hierarchical Bi2WO6 flowers. Journal of Solid State Chemistry, 2008, 181, 1048-1055.	2.9	131
28	Amine-Functionalized Titanate Nanosheet-Assembled Yolk@Shell Microspheres for Efficient Cocatalyst-Free Visible-Light Photocatalytic CO ₂ Reduction. ACS Applied Materials & https://www.linterfaces, 2015, 7, 8166-8175.	8.0	128
29	Activation of peroxymonosulfate by nitrogen-functionalized sludge carbon for efficient degradation of organic pollutants in water. Bioresource Technology, 2017, 241, 244-251.	9.6	124
30	Tandem photocatalytic oxidation of Rhodamine B over surface fluorinated bismuth vanadate crystals. Journal of Materials Chemistry, 2012, 22, 17759.	6.7	114
31	Enhanced photocatalytic CO ₂ valorization over TiO ₂ hollow microspheres by synergetic surface tailoring and Au decoration. Journal of Materials Chemistry A, 2018, 6, 24245-24255.	10.3	113
32	Fabrication and enhanced CO2 reduction performance of N-self-doped TiO2 microsheet photocatalyst by bi-cocatalyst modification. Journal of CO2 Utilization, 2016, 16, 442-449.	6.8	99
33	Synergetic Molecular Oxygen Activation and Catalytic Oxidation of Formaldehyde over Defective MIL-88B(Fe) Nanorods at Room Temperature. Environmental Science & Environmental Science & 2021, 55, 8341-8350.	10.0	98
34	Enhanced Photocalytic Activity of Hollow Anatase Microspheres by Sn ⁴⁺ Incorporation. Journal of Physical Chemistry C, 2008, 112, 2050-2057.	3.1	96
35	Effects of annealing on the microstructures and photoactivity of fluorinated N-doped TiO2. Physical Chemistry Chemical Physics, 2010, 12, 12308.	2.8	96
36	Effects of fluorine on photocatalysis. Chinese Journal of Catalysis, 2020, 41, 1451-1467.	14.0	96

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37	Effect of PSS on morphology and optical properties of ZnO. Journal of Colloid and Interface Science, 2008, 326, 433-438.	9.4	95
38	Promotional role of Mn doping on catalytic oxidation of VOCs over mesoporous TiO2 under vacuum ultraviolet (VUV) irradiation. Applied Catalysis B: Environmental, 2018, 220, 78-87.	20.2	95
39	Synergetic surface modulation of ZnO/Pt@ZIF-8 hybrid nanorods for enhanced photocatalytic CO2 valorization. Applied Catalysis B: Environmental, 2021, 287, 119934.	20.2	91
40	Recovering solar fuels from photocatalytic CO2 reduction over W6+-incorporated crystalline g-C3N4 nanorods by synergetic modulation of active centers. Applied Catalysis B: Environmental, 2022, 304, 120978.	20.2	88
41	Synergetic Codoping in Fluorinated Ti _{1â°'<i>x</i>} Zr _{<i>x</i>} O ₂ Hollow Microspheres. Journal of Physical Chemistry C, 2009, 113, 10712-10717.	3.1	82
42	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.	2.8	79
43	Two-Dimensional High-Entropy Metal Phosphorus Trichalcogenides for Enhanced Hydrogen Evolution Reaction. ACS Nano, 2022, 16, 3593-3603.	14.6	77
44	Synergetic degradation of VOCs by vacuum ultraviolet photolysis and catalytic ozonation over Mn-xCe/ZSM-5. Journal of Hazardous Materials, 2019, 364, 770-779.	12.4	74
45	Spontaneous construction of photoactive hollow TiO ₂ microspheres and chains. Nanotechnology, 2009, 20, 325606.	2.6	73
46	Porous Fluorinated SnO ₂ Hollow Nanospheres: Transformative Self-assembly and Photocatalytic Inactivation of Bacteria. ACS Applied Materials & Samp; Interfaces, 2014, 6, 2407-2414.	8.0	72
47	Degradation of TBBPA and BPA from aqueous solution using organo-montmorillonite supported nanoscale zero-valent iron. Chemical Engineering Journal, 2017, 309, 717-724.	12.7	72
48	ZIF-8 derived bimodal carbon modified ZnO photocatalysts with enhanced photocatalytic CO ₂ reduction performance. RSC Advances, 2016, 6, 59998-60006.	3.6	64
49	Engineering metal-organic frameworks for efficient photocatalytic conversion of CO2 into solar fuels. Coordination Chemistry Reviews, 2022, 450, 214245.	18.8	64
50	Facile synthesis of few-layer-thick carbon nitride nanosheets by liquid ammonia-assisted lithiation method and their photocatalytic redox properties. RSC Advances, 2014, 4, 32690-32697.	3.6	63
51	Co-doped MgAl-LDHs nanosheets supported Au nanoparticles for complete catalytic oxidation of HCHO at room temperature. Applied Surface Science, 2019, 487, 260-271.	6.1	59
52	Spray-hydrolytic synthesis of highly photoactive mesoporous anatase nanospheres for the photocatalytic degradation of toluene in air. Applied Catalysis B: Environmental, 2009, 89, 160-166.	20.2	58
53	Ternary reduced-graphene-oxide/Bi2MoO6/Au nanocomposites withÂenhanced photocatalytic activity under visible light. Journal of Alloys and Compounds, 2015, 649, 28-34.	5.5	57
54	Novel preparation and photocatalytic activity of one-dimensional TiO2hollow structures. Nanotechnology, 2007, 18, 065604.	2.6	56

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55	Efficient degradation of tetrabromobisphenol A by synergistic integration of Fe/Ni bimetallic catalysis and microbial acclimation. Water Research, 2017, 122, 471-480.	11.3	52
56	Ternary g ₃ N ₄ /ZnNCN@ZIFâ€8 Hybrid Photocatalysts with Robust Interfacial Interactions and Enhanced CO ₂ Reduction Performance. Solar Rrl, 2020, 4, 1900440.	5.8	49
57	Hydrogen producing water treatment through mesoporous TiO2 nanofibers with oriented nanocrystals. Chinese Journal of Catalysis, 2020, 41, 50-61.	14.0	46
58	Electrochemical properties of TiO2 hollow microspheres from a template-free and green wet-chemical route. Journal of Power Sources, 2008, 180, 869-874.	7.8	45
59	Synergetic tuning charge dynamics and potentials of Ag3PO4 photocatalysts with boosting activity and stability by facile in-situ fluorination. Applied Surface Science, 2018, 455, 1137-1149.	6.1	42
60	Selective and adsorptive removal of anionic dyes and CO2 with azolium-based metal-organic frameworks. Journal of Colloid and Interface Science, 2018, 519, 214-223.	9.4	41
61	\hat{l}^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.	5. 3	41
62	Controlled Synthesis of Hollow Bimetallic Prussian Blue Analog for Conversion into Efficient Oxygen Evolution Electrocatalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 1319-1328.	6.7	39
63	Efficient transformative HCHO capture by defective NH ₂ -UiO-66(Zr) at room temperature. Environmental Science: Nano, 2019, 6, 2931-2936.	4.3	38
64	Enhancing the room-temperature catalytic degradation of formaldehyde through constructing surface lewis pairs on carbon-based catalyst. Applied Catalysis B: Environmental, 2020, 272, 118992.	20.2	38
65	Three-dimensional \hat{l} ±-Fe2O3/amino-functionalization carbon nanotube sponge for adsorption and oxidative removal of tetrabromobisphenol A. Separation and Purification Technology, 2019, 211, 359-367.	7.9	36
66	Effects of PSMA additive on morphology of barite particles. Journal of Crystal Growth, 2005, 275, 572-579.	1.5	34
67	Role of Ni2+ ions in TiO2 and Pt/TiO2 photocatalysis for phenol degradation in aqueous suspensions. Applied Catalysis B: Environmental, 2019, 258, 117903.	20.2	34
68	Poly(methacrylic acid)-mediated morphosynthesis of PbWO4 micro-crystals. Applied Physics A: Materials Science and Processing, 2007, 87, 113-120.	2.3	33
69	Formation of assimilable organic carbon (AOC) during drinking water disinfection: A microbiological prospect of disinfection byproducts. Environment International, 2020, 135, 105389.	10.0	33
70	TiO2 nanodots anchored on nitrogen-doped carbon nanotubes encapsulated cobalt nanoparticles as photocatalysts with photo-enhanced catalytic activity towards the pollutant removal. Journal of Colloid and Interface Science, 2018, 526, 158-166.	9.4	32
71	Efficient removal of gaseous formaldehyde in air using hierarchical titanate nanospheres with in situ amine functionalization. Physical Chemistry Chemical Physics, 2016, 18, 18161-18168.	2.8	30
72	Selective photocatalytic oxidation of gaseous ammonia at ppb level over Pt and F modified TiO2. Applied Catalysis B: Environmental, 2022, 300, 120688.	20.2	30

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73	Characterization and visible light photocatalytic properties of nanocrystalline TiO2 synthesized by reactive plasma processing. Solar Energy Materials and Solar Cells, 2009, 93, 1540-1549.	6.2	27
74	Sustained production of H2O2 in alkaline water solution using borate and phosphate-modified Au/TiC2 photocatalysts. Photochemical and Photobiological Sciences, 2018, 17, 1018-1022.	2.9	27
75	Hydrogen production from natural organic matter via cascading oxic-anoxic photocatalytic processes: An energy recovering water purification technology. Water Research, 2020, 175, 115684.	11.3	23
76	Silver vanadium oxides nanobelts and their chemical reduction to silver nanobelts. Journal of Crystal Growth, 2006, 293, 404-408.	1.5	22
77	Single-crystalline melem (C ₆ N ₁₀ H ₆) nanorods: a novel stable molecular crystal photocatalyst with modulated charge potentials and dynamics. Journal of Materials Chemistry A, 2019, 7, 13234-13241.	10.3	22
78	Beyond 1Tâ€phase? Synergistic Electronic Structure and Defects Engineering in 2Hâ€MoS _{2x} Se _{2(1â€x)} Nanosheets for Enhanced Hydrogen Evolution Reaction and Sodium Storage. ChemCatChem, 2019, 11, 3200-3211.	3.7	21
79	Low-temperature hydrothermal synthesis of highly photoactive mesoporous spherical TiO2 nanocrystalline. Journal of Physics and Chemistry of Solids, 2010, 71, 507-510.	4.0	20
80	Facile fabrication of monodispersed mesoporous celestine particles with peanut-shaped morphology. Journal of Crystal Growth, 2005, 279, 461-465.	1.5	19
81	Positive effect of Fe ³⁺ ions on Bi ₂ WO ₆ , Bi ₂ MoO ₆ and BiVO ₄ photocatalysis for phenol oxidation under visible light. Catalysis Science and Technology, 2019, 9, 4413-4421.	4.1	19
82	Bexarotene Attenuates Focal Cerebral Ischemia–Reperfusion Injury via the Suppression of JNK/Caspase-3 Signaling Pathway. Neurochemical Research, 2019, 44, 2809-2820.	3.3	16
83	Polymer-directed large-scale synthesis of single-crystal vanadium oxide nanobelts. Materials Chemistry and Physics, 2006, 95, 206-210.	4.0	15
84	Different effects of fluoride and phosphate anions on TiO ₂ photocatalysis (rutile). Catalysis Science and Technology, 2020, 10, 6552-6561.	4.1	15
85	Cationic nickel metal-organic frameworks for adsorption of negatively charged dye molecules. Data in Brief, 2018, 18, 1952-1961.	1.0	14
86	Effects of polyvinylpyrrolidone and cetyltrimethylammonium bromide on morphology of lead tungstate particles. Journal of Alloys and Compounds, 2007, 433, 73-78.	5.5	13
87	Extracellular proteins of Desulfovibrio vulgaris as adsorbents and redox shuttles promote biomineralization of antimony. Journal of Hazardous Materials, 2022, 426, 127795.	12.4	13
88	Controlled Synthesis of Novel Flower-shaped BaCrO4Crystals. Chemistry Letters, 2005, 34, 564-565.	1.3	10
89	Electrocatalysts: 2D Transition Metal Dichalcogenides: Design, Modulation, and Challenges in Electrocatalysis (Adv. Mater. 6/2021). Advanced Materials, 2021, 33, 2170045.	21.0	9
90	Differentially expressed genes induced by \hat{l}^2 -caryophyllene in a rat model of cerebral ischemia-reperfusion injury. Life Sciences, 2021, 273, 119293.	4.3	9

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91	In-Flight Formation of Nano-Crystalline Titanium Dioxide Powder in a Plasma Jet and Its Characterization. Plasma Science and Technology, 2010, 12, 426-432.	1.5	5
92	Enhancing and Complementary Mechanisms of Synergistic Action of Acori Tatarinowii Rhizoma and Codonopsis Radix for Alzheimer's Disease Based on Systems Pharmacology. Evidence-based Complementary and Alternative Medicine, 2020, 2020, 1-26.	1.2	4
93	Effect of F-Doping on the Photocatalytic Activity and Microstructures of Nanocrystalline TiO2 Powders. Nanostructure Science and Technology, 2016, , 187-200.	0.1	3
94	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.	2.7	3
95	Larger Adsorption Effect of Fluoride than Phosphate on Phenol Degradation over the Irradiated Anatase TiO ₂ and Pt/TiO ₂ . Acta Chimica Sinica, 2019, 77, 351.	1.4	1