

# Liuyang Zhang

## List of Publications by Year in descending order

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62  
papers

8,759  
citations

71102

41  
h-index

128289

60  
g-index

62  
all docs

62  
docs citations

62  
times ranked

7635  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Z-scheme photocatalysts: Principles, synthesis, and applications. Materials Today, 2018, 21, 1042-1063.	14.2	1,134
2	Dual Cocatalysts in TiO <sub>2</sub> Photocatalysis. Advanced Materials, 2019, 31, e1807660.	21.0	796
3	Emerging Sâ€Scheme Photocatalyst. Advanced Materials, 2022, 34, e2107668.	21.0	717
4	In Situ Grown Monolayer Nâ€Doped Graphene on CdS Hollow Spheres with Seamless Contact for Photocatalytic CO <sub>2</sub> Reduction. Advanced Materials, 2019, 31, e1902868.	21.0	515
5	Direct Z-scheme TiO <sub>2</sub> /CdS hierarchical photocatalyst for enhanced photocatalytic H <sub>2</sub> -production activity. Applied Surface Science, 2017, 422, 518-527.	6.1	397
6	First-principle calculation study of tri-s-triazine-based g-C <sub>3</sub> N <sub>4</sub> : A review. Applied Catalysis B: Environmental, 2018, 224, 983-999.	20.2	382
7	Self-assembled hierarchical direct Z-scheme g-C <sub>3</sub> N <sub>4</sub> /ZnO microspheres with enhanced photocatalytic CO <sub>2</sub> reduction performance. Applied Surface Science, 2018, 441, 12-22.	6.1	364
8	Coreâ€Shell Nitrogenâ€Doped Carbon Hollow Spheres/Co <sub>3</sub> O <sub>4</sub> Nanosheets as Advanced Electrode for Highâ€Performance Supercapacitor. Small, 2018, 14, e1702407.	10.0	309
9	Nickel-based materials for supercapacitors. Materials Today, 2019, 25, 35-65.	14.2	247
10	Hollow Carbon Spheres and Their Hybrid Nanomaterials in Electrochemical Energy Storage. Advanced Energy Materials, 2019, 9, 1803900.	19.5	220
11	Hierarchical porous Ni/Co-LDH hollow dodecahedron with excellent adsorption property for Congo red and Cr(VI) ions. Applied Surface Science, 2019, 478, 981-990.	6.1	204
12	Review on DFT calculation of <i>s</i>â€triazineâ€based carbon nitride. , 2019, 1, 32-56.		193
13	Triethylamine gas sensor based on Pt-functionalized hierarchical ZnO microspheres. Sensors and Actuators B: Chemical, 2021, 331, 129425.	7.8	174
14	Construction of nickel cobalt sulfide nanosheet arrays on carbon cloth for performance-enhanced supercapacitor. Journal of Materials Science and Technology, 2020, 47, 113-121.	10.7	160
15	Sustained CO <sub>2</sub> -photoreduction activity and high selectivity over Mn, C-codoped ZnO core-triple shell hollow spheres. Nature Communications, 2021, 12, 4936.	12.8	159
16	Synthesis of reduced graphene oxide supported nickel-cobalt-layered double hydroxide nanosheets for supercapacitors. Journal of Colloid and Interface Science, 2021, 588, 637-645.	9.4	156
17	Fabrication of a hierarchical NiO/C hollow sphere composite and its enhanced supercapacitor performance. Chemical Communications, 2018, 54, 3731-3734.	4.1	140
18	Adsorption investigation of CO <sub>2</sub> on g-C <sub>3</sub> N <sub>4</sub> surface by DFT calculation. Journal of CO <sub>2</sub> Utilization, 2017, 21, 327-335.	6.8	134

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19	Ultrathin CdS nanosheets with tunable thickness and efficient photocatalytic hydrogen generation. Applied Surface Science, 2018, 462, 606-614.	6.1	112
20	EPR Investigation on Electron Transfer of 2D/3D g-C <sub>3</sub> N <sub>4</sub> /ZnO S-scheme Heterojunction for Enhanced CO <sub>2</sub> Photoreduction. Advanced Sustainable Systems, 2022, 6, 2100264.	5.3	112
21	ZIF-67 derived nickel cobalt sulfide hollow cages for high-performance supercapacitors. Applied Surface Science, 2020, 504, 144501.	6.1	107
22	Solar fuel generation over nature-inspired recyclable TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> S-scheme hierarchical thin-film photocatalyst. Journal of Materials Science and Technology, 2022, 112, 1-10.	10.7	101
23	Sandwich-Shell Structured CoMn <sub>2</sub> O <sub>4</sub> /C Hollow Nanospheres for Performance-Enhanced Sodium-Ion Hybrid Supercapacitor. Advanced Energy Materials, 2022, 12, .	19.5	101
24	In-situ growth of few-layer graphene on ZnO with intimate interfacial contact for enhanced photocatalytic CO <sub>2</sub> reduction activity. Chemical Engineering Journal, 2021, 411, 128501.	12.7	99
25	ZnO/COF S-scheme heterojunction for improved photocatalytic H <sub>2</sub> O <sub>2</sub> production performance. Chemical Engineering Journal, 2022, 444, 136584.	12.7	94
26	CdS nanosheets decorated with Ni@graphene core-shell cocatalyst for superior photocatalytic H <sub>2</sub> production. Journal of Materials Science and Technology, 2020, 56, 170-178.	10.7	92
27	Binary Solvent Engineering for High-Performance Two-Dimensional Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2019, 7, 3487-3495.	6.7	90
28	Rationally designed hierarchical NiCo <sub>2</sub> O <sub>4</sub> @C@Ni(OH) <sub>2</sub> core-shell nanofibers for high performance supercapacitors. Carbon, 2019, 152, 652-660.	10.3	83
29	Quenching induced hierarchical 3D porous g-C <sub>3</sub> N <sub>4</sub> with enhanced photocatalytic CO <sub>2</sub> reduction activity. Chemical Communications, 2019, 55, 14023-14026.	4.1	83
30	Synthesis of MgNiCo LDH hollow structure derived from ZIF-67 as superb adsorbent for Congo red. Journal of Colloid and Interface Science, 2022, 612, 598-607.	9.4	83
31	Enhanced Performance of Planar Perovskite Solar Cell by Graphene Quantum Dot Modification. ACS Sustainable Chemistry and Engineering, 2018, 6, 8631-8640.	6.7	76
32	S-Scheme 2D/2D Bi <sub>2</sub> MoO <sub>6</sub> /BiOI van der Waals heterojunction for CO <sub>2</sub> photoreduction. Chinese Journal of Catalysis, 2022, 43, 1657-1666.	14.0	75
33	NiCo <sub>2</sub> S <sub>4</sub> Nanotubes Anchored 3D Nitrogen-Doped Graphene Framework as Electrode Material with Enhanced Performance for Asymmetric Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 11157-11165.	6.7	73
34	Hollow CdS-based photocatalysts. Journal of Materiomics, 2021, 7, 419-439.	5.7	72
35	Direct Z-scheme PDA-modified ZnO hierarchical microspheres with enhanced photocatalytic CO <sub>2</sub> reduction performance. Applied Surface Science, 2018, 457, 1096-1102.	6.1	67
36	Plasmon-induced interfacial charge-transfer transition prompts enhanced CO <sub>2</sub> photoreduction over Cu/Cu <sub>2</sub> O octahedrons. Chemical Engineering Journal, 2020, 397, 125390.	12.7	65

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37	Single-atom heterogeneous photocatalysts. <i>Chem Catalysis</i> , 2021, 1, 1173-1214.	6.1	59
38	Holey Graphene for Electrochemical Energy Storage. <i>Cell Reports Physical Science</i> , 2020, 1, 100215.	5.6	58
39	OD/2D (Fe <sub>0.5</sub> Ni <sub>0.5</sub> )S <sub>2</sub> /rGO nanocomposite with enhanced supercapacitor and lithium ion battery performance. <i>Journal of Power Sources</i> , 2019, 426, 266-274.	7.8	54
40	OD/2D NiS/CdS nanocomposite heterojunction photocatalyst with enhanced photocatalytic H <sub>2</sub> evolution activity. <i>Applied Surface Science</i> , 2021, 554, 149622.	6.1	48
41	First-principle investigation on charge carrier transfer in transition-metal single atoms loaded g-C <sub>3</sub> N <sub>4</sub> . <i>Applied Surface Science</i> , 2018, 459, 385-392.	6.1	43
42	N-doped graphene framework supported nickel cobalt oxide as supercapacitor electrode with enhanced performance. <i>Applied Surface Science</i> , 2019, 484, 135-143.	6.1	43
43	Core-Shell Structured C@SiO <sub>2</sub> Hollow Spheres Decorated with Nickel Nanoparticles as Anode Materials for Lithium-Ion Batteries. <i>Small</i> , 2021, 17, e2103673.	10.0	43
44	H <sub>2</sub> O molecule adsorption on s-triazine-based g-C <sub>3</sub> N <sub>4</sub> . <i>Chinese Journal of Catalysis</i> , 2021, 42, 115-122.	14.0	42
45	Temperature effect on the binder-free nickel copper oxide nanowires with superior supercapacitor performance. <i>Nanoscale</i> , 2014, 6, 12981-12989.	5.6	38
46	Enhanced efficiency of perovskite solar cells by PbS quantum dot modification. <i>Applied Surface Science</i> , 2019, 487, 32-40.	6.1	37
47	Improvement in flexibility and volumetric performance for supercapacitor application and the effect of Ni-Fe ratio on electrode behaviour. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7607-7615.	10.3	32
48	Unravelling the correlation between nickel to copper ratio of binary oxides and their superior supercapacitor performance. <i>Electrochimica Acta</i> , 2017, 234, 82-92.	5.2	31
49	A cheap and non-destructive approach to increase coverage/loading of hydrophilic hydroxide on hydrophobic carbon for lightweight and high-performance supercapacitors. <i>Scientific Reports</i> , 2016, 5, 18108.	3.3	29
50	Design of highly-active photocatalytic materials for solar fuel production. <i>Chemical Engineering Journal</i> , 2021, 421, 127732.	12.7	27
51	Nano-Sized Niobium Tungsten Oxide Anode for Advanced Fast-Charge Lithium-Ion Batteries. <i>Small</i> , 2022, 18, e2107365.	10.0	26
52	Highly Stable, New, Organic-Inorganic Perovskite (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> PdBr <sub>4</sub> : Synthesis, Structure, and Physical Properties. <i>Chemistry - A European Journal</i> , 2018, 24, 4991-4998.	3.3	25
53	Chemical insights into the roles of nanowire cores on the growth and supercapacitor performances of Ni-Co-O/Ni(OH) <sub>2</sub> core/shell electrodes. <i>Scientific Reports</i> , 2016, 6, 21566.	3.3	24
54	Remarkable improvement in supercapacitor performance by sulfur introduction during a one-step synthesis of nickel hydroxide. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10462-10469.	2.8	20

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55	Sulfide-Based Nickel-Plated Fabrics for Foldable Quasi-Solid-State Supercapacitors. Energy and Environmental Materials, 2022, 5, 883-891.	12.8	19
56	Nickel-cobalt selenide@N-doped carbon towards high-performance anode materials for sodium-ion batteries. Journal of Energy Storage, 2022, 51, 104522.	8.1	19
57	Substrate-assisted self-organization of Ni-Cu spherical double hydroxide (SDH) and its excellent pseudo-capacitive performance. Journal of Materials Chemistry A, 2014, 2, 4660.	10.3	18
58	A Comparative Study of Cobalt Chalcogenides as the Electrode Materials on Lithium-Sulfur Battery Performance. Small Methods, 2022, 6, e2101269.	8.6	14
59	Significant capacitance enhancement induced by cyclic voltammetry in pine needle-like Ni-Co-Cu multicomponent electrode. Journal of Materials Science and Technology, 2021, 78, 100-109.	10.7	13
60	Light enhanced energy storage ability through a hybrid plasmonic Ag nanowire decorated hydroxide skin structure. Nanoscale, 2017, 9, 18430-18437.	5.6	9
61	Surface modification of g-C3N4: first-principles study. Interface Science and Technology, 2020, 31, 509-539.	3.3	2
62	Graphene oxide-based modified electrodes for high-performance supercapacitors. , 2022, , 239-266.		0