

Qing-Ju Liu

List of Publications by Year in descending order

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89
papers

2,434
citations

186209

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docs citations

90
times ranked

2464
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-atom Cu anchored catalysts for photocatalytic renewable H ₂ production with a quantum efficiency of 56%. <i>Nature Communications</i> , 2022, 13, 58.	5.8	175
2	Covalent organic framework-supported Fe@TiO ₂ nanoparticles as ambient-light-active photocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16364-16371.	5.2	103
3	A Metal-Organic Compound as Cathode Material with Superhigh Capacity Achieved by Reversible Cationic and Anionic Redox Chemistry for High-Energy Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6793-6797.	7.2	85
4	Platinum-Supported Cerium-Doped Indium Oxide for Highly Sensitive Triethylamine Gas Sensing with Good Antihumidity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42962-42970.	4.0	78
5	Synergistic Effect of the Surface Vacancy Defects for Promoting Photocatalytic Stability and Activity of ZnS Nanoparticles. <i>ACS Catalysis</i> , 2021, 11, 13255-13265.	5.5	71
6	Facile lotus-leaf-templated synthesis and enhanced xylene gas sensing properties of Ag-LaFeO ₃ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6138-6145.	2.7	70
7	Single-atom silver loaded on tungsten oxide with oxygen vacancies for high performance triethylamine gas sensors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8704-8710.	5.2	69
8	Formaldehyde sensing performance of reduced graphene oxide-wrapped hollow SnO ₂ nanospheres composites. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127584.	4.0	57
9	Boron-doped graphene quantum dot/Ag@LaFeO ₃ p-n heterojunctions for sensitive and selective benzene detection. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12647-12653.	5.2	51
10	Mesopore-rich carbon flakes derived from lotus leaves and its ultrahigh performance for supercapacitors. <i>Electrochimica Acta</i> , 2020, 333, 135481.	2.6	51
11	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 303001.	0.7	49
12	Designed Highly Effective Photocatalyst of Anatase TiO ₂ Codoped with Nitrogen and Vanadium Under Visible-light Irradiation Using First-principles. <i>Catalysis Letters</i> , 2008, 124, 111-117.	1.4	47
13	A gas sensor array for the simultaneous detection of multiple VOCs. <i>Scientific Reports</i> , 2017, 7, 1960.	1.6	46
14	Single atom catalyst for electrocatalysis. <i>Chinese Chemical Letters</i> , 2021, 32, 2947-2962.	4.8	43
15	Highly selective and sensitive methanol gas sensor based on molecular imprinted silver-doped LaFeO ₃ core-shell and cage structures. <i>Nanotechnology</i> , 2018, 29, 145503.	1.3	42
16	B, N, S, Cl doped graphene quantum dots and their effects on gas-sensing properties of Ag-LaFeO ₃ . <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 364-374.	4.0	41
17	Boosted Visible-Light Photodegradation of Methylene Blue by V and Co Co-Doped TiO ₂ . <i>Materials</i> , 2018, 11, 1946.	1.3	41
18	A highly sensitive and selective formaldehyde gas sensor using a molecular imprinting technique based on Ag@LaFeO ₃ . <i>Journal of Materials Chemistry C</i> , 2014, 2, 10067-10072.	2.7	39

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19	Band Alignment Strategy for Printable Triple Mesoscopic Perovskite Solar Cells with Enhanced Photovoltage. <i>ACS Applied Energy Materials</i> , 2019, 2, 2034-2042.	2.5	38
20	A Metal-Organic Compound as Cathode Material with Superhigh Capacity Achieved by Reversible Cationic and Anionic Redox Chemistry for High-Energy Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2017, 129, 6897-6901.	1.6	36
21	High selectivity methanol sensor based on Co-Fe ₂ O ₃ / SmFeO ₃ p-n heterojunction composites. <i>Journal of Alloys and Compounds</i> , 2018, 765, 193-200.	2.8	36
22	Rich oxygen vacancies, mesoporous TiO ₂ derived from MIL-125 for highly efficient photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2021, 57, 9704-9707.	2.2	36
23	Pt Single Atom-Induced Activation Energy and Adsorption Enhancement for an Ultrasensitive ppb-Level Methanol Gas Sensor. <i>ACS Sensors</i> , 2022, 7, 199-206.	4.0	36
24	Efficient Compact-Layer-Free, Hole-Conductor-Free, Fully Printable Mesoscopic Perovskite Solar Cell. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4142-4146.	2.1	35
25	Gas Sensors Based on Molecular Imprinting Technology. <i>Sensors</i> , 2017, 17, 1567.	2.1	35
26	Ag Nanoparticles Sensitized In ₂ O ₃ Nanograin for the Ultrasensitive HCHO Detection at Room Temperature. <i>Nanoscale Research Letters</i> , 2019, 14, 365.	3.1	34
27	In-Situ-Formed Hierarchical Metal-Organic Flexible Cathode for High-Energy Sodium-Ion Batteries. <i>ChemSusChem</i> , 2017, 10, 4704-4708.	3.6	33
28	Raspberry-like mesoporous Co-doped TiO ₂ nanospheres for a high-performance formaldehyde gas sensor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6529-6537.	5.2	33
29	Advances of the functionalized carbon nitrides for electrocatalysis. , 2022, 4, 211-236.		33
30	Interface Engineering Based on Liquid Metal for Compact-Layer-free, Fully Printable Mesoscopic Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15616-15623.	4.0	31
31	A high selective methanol gas sensor based on molecular imprinted Ag-LaFeO ₃ fibers. <i>Scientific Reports</i> , 2017, 7, 12110.	1.6	30
32	Ag-LaFeO ₃ /NCQDs p-n heterojunctions for superior methanol gas sensing performance. <i>Materials Research Bulletin</i> , 2019, 115, 55-64.	2.7	30
33	Excellent toluene gas sensing properties of molecular imprinted Ag-LaFeO ₃ nanostructures synthesized by microwave-assisted process. <i>Materials Research Bulletin</i> , 2019, 111, 320-328.	2.7	30
34	DFT calculations for single-atom confinement effects of noble metals on monolayer g-C ₃ N ₄ for photocatalytic applications. <i>RSC Advances</i> , 2021, 11, 4276-4285.	1.7	29
35	Regulating effect on photocatalytic water splitting performance of g-C ₃ N ₄ via confinement of single atom Pt based on energy band engineering: A first principles investigation. <i>Applied Surface Science</i> , 2022, 577, 151916.	3.1	28
36	Efficient hole-conductor-free printable mesoscopic perovskite solar cells based on SnO ₂ compact layer. <i>Electrochimica Acta</i> , 2018, 263, 134-139.	2.6	27

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37	Formaldehyde gas sensor with extremely high response employing cobalt-doped SnO ₂ ultrafine nanoparticles. <i>Nanoscale Advances</i> , 2022, 4, 824-836.	2.2	27
38	Ag@LaFeO ₃ fibers, spheres, and cages for ultrasensitive detection of formaldehyde at low operating temperatures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6973-6980.	1.3	26
39	Sustainable cycling enabled by a high-concentration electrolyte for lithium-organic batteries. <i>Chemical Communications</i> , 2019, 55, 608-611.	2.2	26
40	Ultrasensitive xylene gas sensor based on flower-like SnO ₂ /Co ₃ O ₄ nanorods composites prepared by facile two-step synthesis method. <i>Nanotechnology</i> , 2020, 31, 255501.	1.3	26
41	Near-Room-Temperature Ethanol Gas Sensor Based on Mesoporous Ag/Zn@LaFeO ₃ Nanocomposite. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801453.	1.9	25
42	Molecular imprinting Ag-LaFeO ₃ spheres for highly sensitive acetone gas detection. <i>Materials Research Bulletin</i> , 2019, 109, 265-272.	2.7	24
43	Synergistic Effects of Sm and C Co-Doped Mixed Phase Crystalline TiO ₂ for Visible Light Photocatalytic Activity. <i>Materials</i> , 2017, 10, 209.	1.3	23
44	Design of hollow dodecahedral Cu ₂ O nanocages for ethanol gas sensing. <i>Materials Letters</i> , 2019, 247, 15-18.	1.3	23
45	Analysis of sulfur modification mechanism for anatase and rutile TiO ₂ by different doping modes based on GGA + U calculations. <i>RSC Advances</i> , 2014, 4, 32100.	1.7	22
46	Activate metallic copper as high-capacity cathode for lithium-ion batteries via nanocomposite technology. <i>Nano Energy</i> , 2018, 54, 59-65.	8.2	22
47	Incorporating <i>p</i> -Phenylene as an Electron-Donating Group into Graphitic Carbon Nitride for Efficient Charge Separation. <i>ChemSusChem</i> , 2019, 12, 4285-4292.	3.6	22
48	Morphology-dependent formaldehyde detection of porous copper oxide hierarchical microspheres at near-room temperature. <i>Microporous and Mesoporous Materials</i> , 2020, 302, 110232.	2.2	22
49	Influence of carbon and yttrium co-doping on the photocatalytic activity of mixed phase TiO ₂ . <i>Chinese Journal of Catalysis</i> , 2017, 38, 1688-1696.	6.9	21
50	Insights into synergistic effect of Pd single atoms and sub-nanoclusters on TiO ₂ for enhanced photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2022, 450, 137873.	6.6	21
51	High Methanol Gas-Sensing Performance of Sm ₂ O ₃ /ZnO/SmFeO ₃ Microspheres Synthesized Via a Hydrothermal Method. <i>Nanoscale Research Letters</i> , 2019, 14, 57.	3.1	20
52	Porous Anatase TiO ₂ Nanocrystal Derived from the Metal-Organic Framework as Electron Transport Material for Carbon-Based Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 6180-6187.	2.5	20
53	Mechanistic insight into the dispersion behavior of single platinum atom on monolayer g-C ₃ N ₄ in single-atom catalysts from density functional theory calculations. <i>Applied Surface Science</i> , 2021, 566, 150697.	3.1	19
54	Design of ultrasensitive Ag-LaFeO ₃ methanol gas sensor based on quasi molecular imprinting technology. <i>Scientific Reports</i> , 2018, 8, 14220.	1.6	18

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55	Nanoporous Carbon Derived from Green Material by an Ordered Activation Method and Its High Capacitance for Energy Storage. <i>Nanomaterials</i> , 2020, 10, 1058.	1.9	18
56	Microwave-assisted synthesis of porous and hollow $\text{Fe}_2\text{O}_3/\text{LaFeO}_3$ nanostructures for acetone gas sensing as well as photocatalytic degradation of methylene blue. <i>Nanotechnology</i> , 2020, 31, 215601.	1.3	17
57	Constructing hierarchical SnO_2 nanoflowers for enhanced formaldehyde sensing performances. <i>Materials Letters</i> , 2020, 263, 126843.	1.3	16
58	A double perovskite $\text{LaFe}_{1-x}\text{Sn}_x\text{O}_3$ nanocomposite modified by Ag for fast and accurate methanol detection. <i>Materials Research Bulletin</i> , 2020, 132, 111006.	2.7	15
59	Enhanced performance of an acetone gas sensor based on Ag-LaFeO_3 molecular imprinted polymers and carbon nanotubes composite. <i>Nanotechnology</i> , 2020, 31, 405701.	1.3	14
60	Methanol Gas-Sensing Properties of SWCNT-MIP Composites. <i>Nanoscale Research Letters</i> , 2016, 11, 522.	3.1	12
61	Carbon-Based Printable Perovskite Solar Cells with a Mesoporous TiO_2 Electron Transporting Layer Derived from Metal-Organic Framework NH_2 . <i>Energy Technology</i> , 2021, 9, 2000957.	1.8	11
62	Ultrasensitive ppb-level trimethylamine gas sensor based on $\text{Co}_3\text{O}_4/\text{WO}_3$ heterojunction of $\text{Co}_3\text{O}_4/\text{WO}_3$. <i>Nanotechnology</i> , 2021, 32, 505511.	1.3	11
63	Type II heterojunction promotes photoinduced effects of TiO_2 for enhancing photocatalytic performance. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6341-6347.	2.7	11
64	Impact of sulfur-, tantalum-, or co-doping on the electronic structure of anatase titanium dioxide: A systematic density functional theory investigation. <i>Materials Science in Semiconductor Processing</i> , 2015, 33, 94-102.	1.9	10
65	Ag-LaFeO_3 nanoparticles using molecular imprinting technique for selective detection of xylene. <i>Materials Research Bulletin</i> , 2018, 107, 271-279.	2.7	10
66	Efficient Bifacial Passivation Enables Printable Mesoscopic Perovskite Solar Cells with Improved Photovoltage and Fill Factor. <i>Solar Rrl</i> , 2020, 4, 2000288.	3.1	10
67	Formation of Multiphase Soft Metal from Compositing GaInSn and BiInSn Alloy Systems. <i>ACS Applied Electronic Materials</i> , 2022, 4, 112-123.	2.0	10
68	The recent research progress and application of nanoparticles and ions supporting by covalent organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2022, 335, 111701.	2.2	10
69	Structural and electronic properties of Cu_2Q and CuQ ($\text{Q} = \text{O}, \text{S}, \text{Se}, \text{and Te}$) studied by first-principles calculations. <i>Materials Research Express</i> , 2018, 5, 016305.	0.8	9
70	Hybrid cobalt-manganese oxides prepared by ordered steps with a ternary nanosheet structure and its high performance as a binder-free electrode for energy storage. <i>Nanoscale</i> , 2021, 13, 2573-2584.	2.8	8
71	Silver nanoparticles embedded 2D $\text{g-C}_3\text{N}_4$ nanosheets toward excellent photocatalytic hydrogen evolution under visible light. <i>Nanotechnology</i> , 2022, 33, 175401.	1.3	8
72	The janus in monodispersed catalysts: synergetic interactions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5276-5295.	5.2	7

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73	Rice-grain Sm ₂ O ₃ /SmFeO ₃ nanoparticles as high selectivity formaldehyde gas sensor prepared by precipitation. <i>Materials Letters</i> , 2021, 292, 129416.	1.3	7
74	Highly enhanced photocatalytic hydrogen evolution activity by modifying the surface of TiO ₂ nanoparticles with a high proportion of single Cu atoms. <i>Catalysis Science and Technology</i> , 2022, 12, 3856-3862.	2.1	7
75	In ₂ O ₃ Hollow porous nanospheres loaded with Ag nanoparticles to achieve wide concentration range triethylamine detection. <i>Materials Research Bulletin</i> , 2022, 153, 111881.	2.7	7
76	Pompon-like MnO ₂ and N/O doped nanoporous carbon composites with an ultrahigh capacity for energy storage. <i>Electrochimica Acta</i> , 2020, 363, 137240.	2.6	6
77	Mechanism of the Dimethylammonium Cation in Hybrid Perovskites for Enhanced Performance and Stability of Printable Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, 2100923.	3.1	6
78	Synergistic effects of nonmetal co-doping with sulfur in anatase TiO ₂ : a DFT + U study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3426-3434.	1.3	5
79	Anatase Mg _{0.05} Ta _{0.95} O _{1.15} N _{0.85} : a novel photocatalyst for solar hydrogen production. <i>RSC Advances</i> , 2016, 6, 86240-86244.	1.7	5
80	Structural and electronic properties of low-index stoichiometric Cu ₂ ZnSnS ₄ surfaces. <i>Materials Research Express</i> , 2018, 5, 055902.	0.8	4
81	Theoretical study of CO oxidation on Au ₁ /Co ₃ O ₄ (110) single atom catalyst using density functional theory calculations. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105578.	1.9	4
82	Unique and Excellent Paintable Liquid Metal for Fluorescent Displays. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23951-23963.	4.0	4
83	High response and selective ag-SmFeO ₃ methanol gas sensors. , 2017, , .		3
84	A Bidirectional Nanomodification Approach for Synthesizing Hierarchically Architected Mixed Oxide Electrodes for Oxygen Evolution. <i>Small</i> , 2021, 17, e2007287.	5.2	3
85	Synthesis of photocatalytic TiO ₂ nanoparticles at low cost. <i>Transactions of Nonferrous Metals Society of China</i> , 2006, 16, s411-s413.	1.7	2
86	Antibiotic properties of Al ₂ O ₃ doping silver. <i>Central South University</i> , 2005, 12, 263-265.	0.5	1
87	A SIMPLE ROUTE FOR SYNTHESIS OF TIN DIOXIDE NANORODS BASED ON IMPROVED SOLID-STATE REACTIONS. , 2011, , .		1
88	Preparation and Characterization of TiO ₂ -Hybrid SiO ₂ Porous Film. , 2009, , .		0
89	Fabrication of low operating temperature acetone sensor based on ag-lafeo ₃ nanomaterials. , 2017, , .		0