Qing-Ju Liu

List of Publications by Year
in descending order

89	2,434	186209	254106
papers	citations	28 h-index	43 g-index

90	90	90	2464
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Regulating effect on photocatalytic water splitting performance of g-C3N4 via confinement of single atom Pt based on energy band engineering: A first principles investigation. Applied Surface Science, 2022, 577, 151916.	3.1	28
2	Mechanism of the Dimethylammonium Cation in Hybrid Perovskites for Enhanced Performance and Stability of Printable Perovskite Solar Cells. Solar Rrl, 2022, 6, 2100923.	3.1	6
3	Single-atom Cu anchored catalysts for photocatalytic renewable H2 production with a quantum efficiency of 56%. Nature Communications, 2022, 13, 58.	5.8	175
4	Silver nanoparticles embedded 2D g-C₃N₄ nanosheets toward excellent photocatalytic hydrogen evolution under visible light. Nanotechnology, 2022, 33, 175401.	1.3	8
5	Formation of Multiphase Soft Metal from Compositing GaInSn and BiInSn Alloy Systems. ACS Applied Electronic Materials, 2022, 4, 112-123.	2.0	10
6	Advances of the functionalized carbon nitrides for electrocatalysis. , 2022, 4, 211-236.		33
7	Formaldehyde gas sensor with extremely high response employing cobalt-doped SnO₂ ultrafine nanoparticles. Nanoscale Advances, 2022, 4, 824-836.	2.2	27
8	The recent research progress and application of nanoparticles and ions supporting by covalent organic frameworks. Microporous and Mesoporous Materials, 2022, 335, 111701.	2.2	10
9	Type II heterojunction promotes photoinduced effects of TiO₂ for enhancing photocatalytic performance. Journal of Materials Chemistry C, 2022, 10, 6341-6347.	2.7	11
10	Pt Single Atom-Induced Activation Energy and Adsorption Enhancement for an Ultrasensitive ppb-Level Methanol Gas Sensor. ACS Sensors, 2022, 7, 199-206.	4.0	36
11	Highly enhanced photocatalytic hydrogen evolution activity by modifying the surface of TiO₂ nanoparticles with a high proportion of single Cu atoms. Catalysis Science and Technology, 2022, 12, 3856-3862.	2.1	7
12	Unique and Excellent Paintable Liquid Metal for Fluorescent Displays. ACS Applied Materials & Interfaces, 2022, 14, 23951-23963.	4.0	4
13	In2O3 Hollow porous nanospheres loaded with Ag nanoparticles to achieve wide concentration range triethylamine detection. Materials Research Bulletin, 2022, 153, 111881.	2.7	7
14	Insights into synergistic effect of Pd single atoms and sub-nanoclusters on TiO2 for enhanced photocatalytic H2 evolution. Chemical Engineering Journal, 2022, 450, 137873.	6.6	21
15	Theoretical study of CO oxidation on Au1/Co3O4 (110) single atom catalyst using density functional theory calculations. Materials Science in Semiconductor Processing, 2021, 123, 105578.	1.9	4
16	Raspberry-like mesoporous Co-doped TiO₂ nanospheres for a high-performance formaldehyde gas sensor. Journal of Materials Chemistry A, 2021, 9, 6529-6537.	5.2	33
17	DFT calculations for single-atom confinement effects of noble metals on monolayer g-C₃N₄ for photocatalytic applications. RSC Advances, 2021, 11, 4276-4285.	1.7	29
18	The janus in monodispersed catalysts: synergetic interactions. Journal of Materials Chemistry A, 2021, 9, 5276-5295.	5.2	7

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19	Hybrid cobaltâ€“manganese oxides prepared by ordered steps with a ternary nanosheet structure and its high performance as a binder-free electrode for energy storage. Nanoscale, 2021, 13, 2573-2584.	2.8	8
20	Carbonâ€Based Printable Perovskite Solar Cells with a Mesoporous TiO₂ Electron Transporting Layer Derived from Metalâ€“Organic Framework NH₂â€MILâ€125. Energy Technology, 2021, 9, 2000957.	1.8	11
21	Rich oxygen vacancies, mesoporous TiO₂ derived from MIL-125 for highly efficient photocatalytic hydrogen evolution. Chemical Communications, 2021, 57, 9704-9707.	2.2	36
22	A Bidirectional Nanomodification Approach for Synthesizing Hierarchically Architected Mixed Oxide Electrodes for Oxygen Evolution. Small, 2021, 17, e2007287.	5.2	3
23	Single atom catalyst for electrocatalysis. Chinese Chemical Letters, 2021, 32, 2947-2962.	4.8	43
24	Rice-grain Sm2O3/SmFeO3 nanoparticles as high selectivity formaldehyde gas sensor prepared by precipitation. Materials Letters, 2021, 292, 129416.	1.3	7
25	Gas sensing materials roadmap. Journal of Physics Condensed Matter, 2021, 33, 303001.	0.7	49
26	Ultrasensitive ppb-level trimethylamine gas sensor based on pâ€“n heterojunction of Co₃O₄/WO₃. Nanotechnology, 2021, 32, 505511.	1.3	11
27	Mechanistic insight into the dispersion behavior of single platinum atom on monolayer g-C3N4 in single-atom catalysts from density functional theory calculations. Applied Surface Science, 2021, 566, 150697.	3.1	19
28	Single-atom silver loaded on tungsten oxide with oxygen vacancies for high performance triethylamine gas sensors. Journal of Materials Chemistry A, 2021, 9, 8704-8710.	5.2	69
29	Synergistic Effect of the Surface Vacancy Defects for Promoting Photocatalytic Stability and Activity of ZnS Nanoparticles. ACS Catalysis, 2021, 11, 13255-13265.	5.5	71
30	Constructing hierarchical SnO2 nanoflowers for enhanced formaldehyde sensing performances. Materials Letters, 2020, 263, 126843.	1.3	16
31	Formaldehyde sensing performance of reduced graphene oxide-wrapped hollow SnO2 nanospheres composites. Sensors and Actuators B: Chemical, 2020, 307, 127584.	4.0	57
32	Mesopore-rich carbon flakes derived from lotus leaves and itâ€™s ultrahigh performance for supercapacitors. Electrochimica Acta, 2020, 333, 135481.	2.6	51
33	Pompon-like MnO2 and N/O doped nanoporous carbon composites with an ultrahigh capacity for energy storage. Electrochimica Acta, 2020, 363, 137240.	2.6	6
34	A double perovskite LaFe1-xSnxO3 nanocomposite modified by Ag for fast and accurate methanol detection. Materials Research Bulletin, 2020, 132, 111006.	2.7	15
35	Efficient Bifacial Passivation Enables Printable Mesoscopic Perovskite Solar Cells with Improved Photovoltage and Fill Factor. Solar Rrl, 2020, 4, 2000288.	3.1	10
36	Platinum-Supported Cerium-Doped Indium Oxide for Highly Sensitive Triethylamine Gas Sensing with Good Antihumidity. ACS Applied Materials & Interfaces, 2020, 12, 42962-42970.	4.0	78

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37	Porous Anatase TiO₂ Nanocrystal Derived from the Metalâ€“Organic Framework as Electron Transport Material for Carbon-Based Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 6180-6187.	2.5	20
38	Nanoporous Carbon Derived from Green Material by an Ordered Activation Method and Its High Capacitance for Energy Storage. Nanomaterials, 2020, 10, 1058.	1.9	18
39	Enhanced performance of an acetone gas sensor based on Ag-LaFeO₃ molecular imprinted polymers and carbon nanotubes composite. Nanotechnology, 2020, 31, 405701.	1.3	14
40	Morphology-dependent formaldehyde detection of porous copper oxide hierarchical microspheres at near-room temperature. Microporous and Mesoporous Materials, 2020, 302, 110232.	2.2	22
41	Microwave-assisted synthesis of porous and hollow Î±-Fe₂O₃/LaFeO₃ nanostructures for acetone gas sensing as well as photocatalytic degradation of methylene blue. Nanotechnology, 2020, 31, 215601.	1.3	17
42	Ultrasensitive xylene gas sensor based on flower-like SnO₂/Co₃O₄ nanorods composites prepared by facile two-step synthesis method. Nanotechnology, 2020, 31, 255501.	1.3	26
43	High Methanol Gas-Sensing Performance of Sm2O3/ZnO/SmFeO3 Microspheres Synthesized Via a Hydrothermal Method. Nanoscale Research Letters, 2019, 14, 57.	3.1	20
44	Incorporating pâ€Phenylene as an Electronâ€Donating Group into Graphitic Carbon Nitride for Efficient Charge Separation. ChemSusChem, 2019, 12, 4285-4292.	3.6	22
45	Band Alignment Strategy for Printable Triple Mesoscopic Perovskite Solar Cells with Enhanced Photovoltage. ACS Applied Energy Materials, 2019, 2, 2034-2042.	2.5	38
46	Sustainable cycling enabled by a high-concentration electrolyte for lithium-organic batteries. Chemical Communications, 2019, 55, 608-611.	2.2	26
47	Covalent organic framework-supported Feâ€“TiO₂ nanoparticles as ambient-light-active photocatalysts. Journal of Materials Chemistry A, 2019, 7, 16364-16371.	5.2	103
48	Ag-LaFeO3/NCQDs p-n heterojunctions for superior methanol gas sensing performance. Materials Research Bulletin, 2019, 115, 55-64.	2.7	30
49	Design of hollow dodecahedral Cu2O nanocages for ethanol gas sensing. Materials Letters, 2019, 247, 15-18.	1.3	23
50	Nearâ€Roomâ€Temperature Ethanol Gas Sensor Based on Mesoporous Ag/Znâ€“LaFeO₃ Nanocomposite. Advanced Materials Interfaces, 2019, 6, 1801453.	1.9	25
51	Excellent toluene gas sensing properties of molecular imprinted Ag-LaFeO3 nanostructures synthesized by microwave-assisted process. Materials Research Bulletin, 2019, 111, 320-328.	2.7	30
52	Molecular imprinting Ag-LaFeO3 spheres for highly sensitive acetone gas detection. Materials Research Bulletin, 2019, 109, 265-272.	2.7	24
53	Ag Nanoparticles Sensitized In2O3 Nanograin for the Ultrasensitive HCHO Detection at Room Temperature. Nanoscale Research Letters, 2019, 14, 365.	3.1	34
54	Highly selective and sensitive methanol gas sensor based on molecular imprinted silver-doped LaFeO₃ coreâ€“shell and cage structures. Nanotechnology, 2018, 29, 145503.	1.3	42

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55	Interface Engineering Based on Liquid Metal for Compact-Layer-free, Fully Printable Mesoscopic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 15616-15623.	4.0	31
56	Structural and electronic properties of Cu₂Q and CuQ (Q = O, S, Se, and Te) studied by first-principles calculations. Materials Research Express, 2018, 5, 016305.	0.8	9
57	Efficient hole-conductor-free printable mesoscopic perovskite solar cells based on SnO2 compact layer. Electrochimica Acta, 2018, 263, 134-139.	2.6	27
58	B, N, S, Cl doped graphene quantum dots and their effects on gas-sensing properties of Ag-LaFeO3. Sensors and Actuators B: Chemical, 2018, 266, 364-374.	4.0	41
59	Design of ultrasensitive Ag-LaFeO3 methanol gas sensor based on quasi molecular imprinting technology. Scientific Reports, 2018, 8, 14220.	1.6	18
60	Activate metallic copper as high-capacity cathode for lithium-ion batteries via nanocomposite technology. Nano Energy, 2018, 54, 59-65.	8.2	22
61	Boosted Visible-Light Photodegradation of Methylene Blue by V and Co Co-Doped TiO2. Materials, 2018, 11, 1946.	1.3	41
62	Facile lotus-leaf-templated synthesis and enhanced xylene gas sensing properties of Ag-LaFeO₃ nanoparticles. Journal of Materials Chemistry C, 2018, 6, 6138-6145.	2.7	70
63	High selectivity methanol sensor based on Co-Fe2O3/ SmFeO3 p-n heterojunction composites. Journal of Alloys and Compounds, 2018, 765, 193-200.	2.8	36
64	Ag-LaFeO3 nanoparticles using molecular imprinting technique for selective detection of xylene. Materials Research Bulletin, 2018, 107, 271-279.	2.7	10
65	Structural and electronic properties of low-index stoichiometric Cu2ZnSnS4 surfaces. Materials Research Express, 2018, 5, 055902.	0.8	4
66	Boron-doped graphene quantum dot/Agâ€“LaFeO₃ pâ€“p heterojunctions for sensitive and selective benzene detection. Journal of Materials Chemistry A, 2018, 6, 12647-12653.	5.2	51
67	Agâ€“LaFeO₃ fibers, spheres, and cages for ultrasensitive detection of formaldehyde at low operating temperatures. Physical Chemistry Chemical Physics, 2017, 19, 6973-6980.	1.3	26
68	A Metalâ€“Organic Compound as Cathode Material with Superhigh Capacity Achieved by Reversible Cationic and Anionic Redox Chemistry for Highâ€Energy Sodiumâ€ion Batteries. Angewandte Chemie, 2017, 129, 6897-6901.	1.6	36
69	A Metalâ€“Organic Compound as Cathode Material with Superhigh Capacity Achieved by Reversible Cationic and Anionic Redox Chemistry for Highâ€Energy Sodiumâ€ion Batteries. Angewandte Chemie - International Edition, 2017, 56, 6793-6797.	7.2	85
70	Influence of carbon and yttrium co-doping on the photocatalytic activity of mixed phase TiO 2. Chinese Journal of Catalysis, 2017, 38, 1688-1696.	6.9	21
71	Inâ€…Situâ€Formed Hierarchical Metalâ€“Organic Flexible Cathode for Highâ€Energy Sodiumâ€ion Batteries. ChemSusChem, 2017, 10, 4704-4708.	3.6	33
72	A high selective methanol gas sensor based on molecular imprinted Ag-LaFeO3 fibers. Scientific Reports, 2017, 7, 12110.	1.6	30

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73	A gas sensor array for the simultaneous detection of multiple VOCs. Scientific Reports, 2017, 7, 1960.	1.6	46
74	Fabrication of low operating temperature acetone sensor based on ag-lafeo<inf>3</inf> nanomaterials. , 2017, , .		0
75	High response and selective ag-SmFeO<inf>3</inf> methanol gas sensors. , 2017, , .		3
76	Synergistic Effects of Sm and C Co-Doped Mixed Phase Crystalline TiO2 for Visible Light Photocatalytic Activity. Materials, 2017, 10, 209.	1.3	23
77	Gas Sensors Based on Molecular Imprinting Technology. Sensors, 2017, 17, 1567.	2.1	35
78	Methanol Gas-Sensing Properties of SWCNT-MIP Composites. Nanoscale Research Letters, 2016, 11, 522.	3.1	12
79	Efficient Compact-Layer-Free, Hole-Conductor-Free, Fully Printable Mesoscopic Perovskite Solar Cell. Journal of Physical Chemistry Letters, 2016, 7, 4142-4146.	2.1	35
80	Anatase Mg0.05Ta0.95O1.15N0.85: a novel photocatalyst for solar hydrogen production. RSC Advances, 2016, 6, 86240-86244.	1.7	5
81	Impact of sulfur-, tantalum-, or co-doping on the electronic structure of anatase titanium dioxide: A systematic density functional theory investigation. Materials Science in Semiconductor Processing, 2015, 33, 94-102.	1.9	10
82	Synergistic effects of nonmetal co-doping with sulfur in anatase TiO₂: a DFT + U study. Physical Chemistry Chemical Physics, 2015, 17, 3426-3434.	1.3	5
83	A highly sensitive and selective formaldehyde gas sensor using a molecular imprinting technique based on Agâ€“LaFeO₃. Journal of Materials Chemistry C, 2014, 2, 10067-10072.	2.7	39
84	Analysis of sulfur modification mechanism for anatase and rutile TiO₂by different doping modes based on GGA + U calculations. RSC Advances, 2014, 4, 32100.	1.7	22
85	A SIMPLE ROUTE FOR SYNTHESIS OF TIN DIOXIDE NANORODS BASED ON IMPROVED SOLID-STATE REACTIONS. , 2011, , .		1
86	Preparation and Characterization of TiO2-Hybrid SiO2 Porous Film. , 2009, , .		0
87	Designed Highly Effective Photocatalyst of Anatase TiO2 Codoped with Nitrogen and Vanadium Under Visible-light Irradiation Using First-principles. Catalysis Letters, 2008, 124, 111-117.	1.4	47
88	Synthesis of photocatalytic TiO2 nanoparticles at low cost. Transactions of Nonferrous Metals Society of China, 2006, 16, s411-s413.	1.7	2
89	Antibiotic properties of Al2O3 doping silver. Central South University, 2005, 12, 263-265.	0.5	1