Yumin Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5964434/publications.pdf

Version: 2024-02-01

42	1,372	279701 23	345118 36
papers	citations	h-index	g-index

43	43	43	1313
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Single-atom Cu anchored catalysts for photocatalytic renewable H2 production with a quantum efficiency of 56%. Nature Communications, 2022, 13, 58.	5.8	175
3	Formaldehyde gas sensor with extremely high response employing cobalt-doped SnO₂ ultrafine nanoparticles. Nanoscale Advances, 2022, 4, 824-836.	2.2	27
4	Type II heterojunction promotes photoinduced effects of TiO₂ for enhancing photocatalytic performance. Journal of Materials Chemistry C, 2022, 10, 6341-6347.	2.7	11
5	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
6	Unique and Excellent Paintable Liquid Metal for Fluorescent Displays. ACS Applied Materials & Interfaces, 2022, 14, 23951-23963.	4.0	4
7	In2O3 Hollow porous nanospheres loaded with Ag nanoparticles to achieve wide concentration range triethylamine detection. Materials Research Bulletin, 2022, 153, 111881.	2.7	7
8	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
9	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
10	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
11	Rich oxygen vacancies, mesoporous TiO₂ derived from MIL-125 for highly efficient photocatalytic hydrogen evolution. Chemical Communications, 2021, 57, 9704-9707.	2.2	36
12	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
13	Formaldehyde sensing performance of reduced graphene oxide-wrapped hollow SnO2 nanospheres composites. Sensors and Actuators B: Chemical, 2020, 307, 127584.	4.0	57
14	Efficient Bifacial Passivation Enables Printable Mesoscopic Perovskite Solar Cells with Improved Photovoltage and Fill Factor. Solar Rrl, 2020, 4, 2000288.	3.1	10
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	Morphology-dependent formaldehyde detection of porous copper oxide hierarchical microspheres at near-room temperature. Microporous and Mesoporous Materials, 2020, 302, 110232.	2.2	22
20	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
21	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
22	Band Alignment Strategy for Printable Triple Mesoscopic Perovskite Solar Cells with Enhanced Photovoltage. ACS Applied Energy Materials, 2019, 2, 2034-2042.	2.5	38
23	Covalent organic framework-supported Feâ€“TiO₂ nanoparticles as ambient-light-active photocatalysts. Journal of Materials Chemistry A, 2019, 7, 16364-16371.	5.2	103
24	Ag-LaFeO3/NCQDs p-n heterojunctions for superior methanol gas sensing performance. Materials Research Bulletin, 2019, 115, 55-64.	2.7	30
25	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
26	Molecular imprinting Ag-LaFeO3 spheres for highly sensitive acetone gas detection. Materials Research Bulletin, 2019, 109, 265-272.	2.7	24
27	Ag Nanoparticles Sensitized In2O3 Nanograin for the Ultrasensitive HCHO Detection at Room Temperature. Nanoscale Research Letters, 2019, 14, 365.	3.1	34
28	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
29	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
30	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
31	Design of ultrasensitive Ag-LaFeO3 methanol gas sensor based on quasi molecular imprinting technology. Scientific Reports, 2018, 8, 14220.	1.6	18
32	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
33	Ag-LaFeO3 nanoparticles using molecular imprinting technique for selective detection of xylene. Materials Research Bulletin, 2018, 107, 271-279.	2.7	10
34	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
35	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
36	A high selective methanol gas sensor based on molecular imprinted Ag-LaFeO3 fibers. Scientific Reports, 2017, 7, 12110.	1.6	30

#	Article	IF	Citations
37	A gas sensor array for the simultaneous detection of multiple VOCs. Scientific Reports, 2017, 7, 1960.	1.6	46
38	Fabrication of low operating temperature acetone sensor based on ag-lafeo<inf>3</inf> nanomaterials. , 2017, , .		0
39	Gas Sensors Based on Molecular Imprinting Technology. Sensors, 2017, 17, 1567.	2.1	35
40	Methanol Gas-Sensing Properties of SWCNT-MIP Composites. Nanoscale Research Letters, 2016, 11, 522.	3.1	12
41	Controllable preparation of copper phthalocyanine single crystal nano column and its chlorine gas sensing properties. AIP Advances, 2016, 6, 095303.	0.6	9
42	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