

# Geyu Lu

## List of Publications by Year in descending order

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66  
papers

4,629  
citations

76294

40  
h-index

102432

66  
g-index

66  
all docs

66  
docs citations

66  
times ranked

4199  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas sensor based on cobalt-doped 3D inverse opal SnO <sub>2</sub> for air quality monitoring. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130807.	4.0	40
2	Revealing the correlation between gas selectivity and semiconductor energy band structure derived from off-stoichiometric spinel CdGa <sub>2</sub> O <sub>4</sub> . <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131039.	4.0	8
3	Interfacial Stress-Modulated Mechanosensitive Upconversion Luminescence of NaErF <sub>4</sub> -Based Heteroepitaxial Core-Shell Nanoparticles. <i>Advanced Optical Materials</i> , 2022, 10, 2101702.	3.6	8
4	Bioinspired spike-like double yolk-shell structured TiO <sub>2</sub> @ZnIn <sub>2</sub> S <sub>4</sub> for efficient photocatalytic CO <sub>2</sub> reduction. <i>Catalysis Science and Technology</i> , 2022, 12, 1092-1099.	2.1	9
5	Mixed potential type YSZ-based NO <sub>2</sub> sensors with efficient three-dimensional three-phase boundary processed by electrospinning. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131219.	4.0	14
6	A multi-platform sensor for selective and sensitive H <sub>2</sub> S monitoring: Three-dimensional macroporous ZnO encapsulated by MOFs with small Pt nanoparticles. <i>Journal of Hazardous Materials</i> , 2022, 426, 128075.	6.5	41
7	3-Aminopropyltriethoxysilane functionalized ZnO materials for improving the gas sensitivity to 2-butanone. <i>Sensors and Actuators B: Chemical</i> , 2022, 363, 131845.	4.0	19
8	Photonic Crystal Effects on Upconversion Enhancement of LiErF <sub>4</sub> :0.5%Tm <sup>3+</sup> @LiYF <sub>4</sub> for Noncontact Cholesterol Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 428-438.	4.0	8
9	Ti <sub>3</sub> C <sub>2</sub> MXene Nanosheets Functionalized with NaErF <sub>4</sub> :0.5%Tm@NaLuF <sub>4</sub> Nanoparticles for Dual-Modal Near-Infrared IIb/Magnetic Resonance Imaging-Guided Tumor Hyperthermia. <i>ACS Applied Nano Materials</i> , 2022, 5, 8142-8153.	2.4	15
10	Highly selective and sensitive optosensing of glutathione based on energy level strongly correlated upconversion nanoprobe. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132355.	4.0	1
11	A TPA-DCPP organic semiconductor film-based room temperature NH <sub>3</sub> sensor for insight into the sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128940.	4.0	25
12	Biosensors based on fluorescence carbon nanomaterials for detection of pesticides. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 134, 116126.	5.8	121
13	Er <sup>3+</sup> self-sensitized nanoprobe with enhanced 1525 nm downshifting emission for NIR-IIb <i>in vivo</i> bio-imaging. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2899-2908.	2.9	32
14	Recent advances in carbon dots for bioimaging applications. <i>Nanoscale Horizons</i> , 2020, 5, 218-234.	4.1	192
15	Revealing the relationship between the Au decoration method and the enhanced acetone sensing performance of a mesoporous In <sub>2</sub> O <sub>3</sub> -based gas sensor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 78-88.	2.7	53
16	Insight into the effect of the continuous testing and aging on the SO <sub>2</sub> sensing characteristics of a YSZ (Yttria-stabilized Zirconia)-based sensor utilizing ZnGa <sub>2</sub> O <sub>4</sub> and Pt electrodes. <i>Journal of Hazardous Materials</i> , 2020, 388, 121772.	6.5	17
17	UV-activated ultrasensitive and fast reversible ppb NO <sub>2</sub> sensing based on ZnO nanorod modified by constructing interfacial electric field with In <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127498.	4.0	70
18	Mixed potential type H <sub>2</sub> S sensor based on stabilized zirconia and a Co <sub>2</sub> SnO <sub>4</sub> sensing electrode for halitosis monitoring. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128587.	4.0	23

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19	The DNA controllable peroxidase mimetic activity of MoS <sub>2</sub> nanosheets for constructing a robust colorimetric biosensor. <i>Nanoscale</i> , 2020, 12, 19420-19428.	2.8	52
20	Understanding the noble metal modifying effect on In <sub>2</sub> O <sub>3</sub> nanowires: highly sensitive and selective gas sensors for potential early screening of multiple diseases. <i>Nanoscale Horizons</i> , 2019, 4, 1361-1371.	4.1	69
21	Sensitive colorimetric sensor for point-of-care detection of acetylcholinesterase using cobalt oxyhydroxide nanoflakes. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1230-1237.	2.9	50
22	A rapid-response room-temperature planar type gas sensor based on DPA-Ph-DBPzDCN for the sensitive detection of NH <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , 2019, 7, 4744-4750.	5.2	37
23	Graphene quantum dot-functionalized three-dimensional ordered mesoporous ZnO for acetone detection toward diagnosis of diabetes. <i>Nanoscale</i> , 2019, 11, 11496-11504.	2.8	71
24	Realizing the Control of Electronic Energy Level Structure and Gas-Sensing Selectivity over Heteroatom-Doped In <sub>2</sub> O <sub>3</sub> Spheres with an Inverse Opal Microstructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9600-9611.	4.0	76
25	High-activity Mo, S co-doped carbon quantum dot nanozyme-based cascade colorimetric biosensor for sensitive detection of cholesterol. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7042-7051.	2.9	98
26	Ultrasensitive gas sensor based on hollow tungsten trioxide-nickel oxide (WO <sub>3</sub> -NiO) nanoflowers for fast and selective xylene detection. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 458-468.	5.0	90
27	A highly sensitive and moisture-resistant gas sensor for diabetes diagnosis with Pt@In <sub>2</sub> O <sub>3</sub> nanowires and a molecular sieve for protection. <i>NPG Asia Materials</i> , 2018, 10, 293-308.	3.8	129
28	Yellow-Emissive Carbon Dot-Based Optical Sensing Platforms: Cell Imaging and Analytical Applications for Biocatalytic Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7737-7744.	4.0	87
29	Rational design of 3D inverse opal heterogeneous composite microspheres as excellent visible-light-induced NO <sub>2</sub> sensors at room temperature. <i>Nanoscale</i> , 2018, 10, 4841-4851.	2.8	63
30	Humidity sensor based on solution processible microporous silica nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 131-138.	4.0	34
31	The room temperature gas sensor based on Polyaniline@flower-like WO <sub>3</sub> nanocomposites and flexible PET substrate for NH <sub>3</sub> detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 505-513.	4.0	159
32	Novel Self-Assembly Route Assisted Ultra-Fast Trace Volatile Organic Compounds Gas Sensing Based on Three-Dimensional Opal Microspheres Composites for Diabetes Diagnosis. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32913-32921.	4.0	40
33	APTES-functionalized thin-walled porous WO <sub>3</sub> nanotubes for highly selective sensing of NO <sub>2</sub> in a polluted environment. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10976-10989.	5.2	100
34	The facile synthesis of MoO <sub>3</sub> microsheets and their excellent gas-sensing performance toward triethylamine: high selectivity, excellent stability and superior repeatability. <i>New Journal of Chemistry</i> , 2018, 42, 15111-15120.	1.4	73
35	A fluorescent biosensor based on molybdenum disulfide nanosheets and protein aptamer for sensitive detection of carcinoembryonic antigen. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 185-190.	4.0	88
36	Flower-like ZnO hollow microspheres loaded with CdO nanoparticles as high performance sensing material for gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 692-702.	4.0	84

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37	Fabrication of well-ordered porous array mounted with gold nanoparticles and enhanced sensing properties for mixed potential-type zirconia-based NH <sub>3</sub> sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1083-1091.	4.0	37
38	NH <sub>3</sub> gas sensing performance enhanced by Pt-loaded on mesoporous WO <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 473-481.	4.0	181
39	High-temperature NO <sub>2</sub> gas sensor based on stabilized zirconia and CoTa <sub>2</sub> O <sub>6</sub> sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 148-157.	4.0	52
40	Improvement of NO <sub>2</sub> sensing characteristic for mixed potential type gas sensor based on YSZ and Rh/Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> sensing electrode. <i>RSC Advances</i> , 2017, 7, 49440-49445.	1.7	11
41	High-temperature stabilized zirconia-based sensors utilizing MNb <sub>2</sub> O <sub>6</sub> (M: Co, Ni and Zn) sensing electrodes for detection of NO <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 523-530.	4.0	35
42	Fabrication of Well-Ordered Three-Phase Boundary with Nanostructure Pore Array for Mixed Potential-Type Zirconia-Based NO <sub>2</sub> Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16752-16760.	4.0	41
43	Mixed-potential type NO sensor using stabilized zirconia and MoO <sub>3</sub> /In <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Ceramics International</i> , 2016, 42, 12503-12507.	2.3	37
44	Preparation of Ag-loaded mesoporous WO <sub>3</sub> and its enhanced NO <sub>2</sub> sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 544-552.	4.0	127
45	YSZ-based NO <sub>2</sub> sensor utilizing hierarchical In <sub>2</sub> O <sub>3</sub> electrode. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 698-706.	4.0	40
46	Ultrasensitive and low detection limit of acetone gas sensor based on W-doped NiO hierarchical nanostructure. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 59-67.	4.0	133
47	High performance mixed-potential type NO <sub>2</sub> sensors based on three-dimensional TPB and Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 121-127.	4.0	40
48	Mixed-potential type NH <sub>3</sub> sensor based on stabilized zirconia and Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 795-802.	4.0	96
49	Highly Enhanced Sensing Properties for ZnO Nanoparticle-Decorated Round-Edged $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> Hexahedrons. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8743-8749.	4.0	62
50	Enhancement of NO <sub>2</sub> gas sensing response based on ordered mesoporous Fe-doped In <sub>2</sub> O <sub>3</sub> . <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 806-812.	4.0	141
51	Cu-doped $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> hierarchical microcubes: Synthesis and gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 616-622.	4.0	115
52	High Performance Mixed-Potential Type NO <sub>x</sub> Sensor Based On Stabilized Zirconia and Oxide Electrode. <i>Solid State Ionics</i> , 2014, 262, 292-297.	1.3	51
53	Microwave hydrothermal synthesis and gas sensing application of porous ZnO core-shell microstructures. <i>RSC Advances</i> , 2014, 4, 32538.	1.7	36
54	Hydrothermally growth of novel hierarchical structures titanium dioxide for high efficiency dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014, 268, 19-24.	4.0	20

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55	Hierarchical $\text{Fe}_2\text{O}_3/\text{NiO}$ Composites with a Hollow Structure for a Gas Sensor. ACS Applied Materials & Interfaces, 2014, 6, 12031-12037.	4.0	255
56	Hierarchical flower-like $\text{WO}_3$ nanostructures and their gas sensing properties. Sensors and Actuators B: Chemical, 2014, 204, 224-230.	4.0	111
57	One-step synthesis and gas sensing properties of hierarchical Cd-doped $\text{SnO}_2$ nanostructures. Sensors and Actuators B: Chemical, 2014, 190, 32-39.	4.0	122
58	The effects of sintering temperature of $\text{MnCr}_2\text{O}_4$ nanocomposite on the $\text{NO}_2$ sensing property for YSZ-based potentiometric sensor. Sensors and Actuators B: Chemical, 2013, 177, 397-403.	4.0	73
59	Mixed-potential-type $\text{NO}_2$ sensor using stabilized zirconia and $\text{Cr}_2\text{O}_3/\text{WO}_3$ nanocomposites. Sensors and Actuators B: Chemical, 2013, 180, 90-95.	4.0	59
60	Preparation and gas sensing properties of hierarchical flower-like $\text{In}_2\text{O}_3$ microspheres. Sensors and Actuators B: Chemical, 2013, 176, 405-412.	4.0	84
61	One-step synthesis and gas sensing characteristics of urchin-like $\text{In}_2\text{O}_3$ . Sensors and Actuators B: Chemical, 2013, 186, 61-66.	4.0	31
62	Gas sensing with hollow $\text{Fe}_2\text{O}_3$ urchin-like spheres prepared via template-free hydrothermal synthesis. CrystEngComm, 2012, 14, 8335.	1.3	38
63	UV-enhanced room temperature $\text{NO}_2$ sensor using $\text{ZnO}$ nanorods modified with $\text{SnO}_2$ nanoparticles. Sensors and Actuators B: Chemical, 2012, 162, 82-88.	4.0	251
64	Ammonia sensor based on NASICON and $\text{Cr}_2\text{O}_3$ electrode. Sensors and Actuators B: Chemical, 2009, 136, 479-483.	4.0	65
65	Improved $\text{NH}_3$ , $\text{C}_2\text{H}_5\text{OH}$ , and $\text{CH}_3\text{COCH}_3$ sensing properties of $\text{SnO}_2$ nanofibers by adding block copolymer P123. Sensors and Actuators B: Chemical, 2009, 141, 174-178.	4.0	59
66	High-temperature sensors for $\text{NO}$ and $\text{NO}_2$ based on stabilized zirconia and spinel-type oxide electrodes. Journal of Materials Chemistry, 1997, 7, 1445-1449.	6.7	130