

Geyu Lu

List of Publications by Year in descending order

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66
papers

4,629
citations

76294

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102432

66
g-index

66
all docs

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docs citations

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times ranked

4199
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical $\text{Fe}_2\text{O}_3/\text{NiO}$ Composites with a Hollow Structure for a Gas Sensor. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12031-12037.	4.0	255
2	UV-enhanced room temperature NO_2 sensor using ZnO nanorods modified with SnO_2 nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2012, 162, 82-88.	4.0	251
3	Recent advances in carbon dots for bioimaging applications. <i>Nanoscale Horizons</i> , 2020, 5, 218-234.	4.1	192
4	NH_3 gas sensing performance enhanced by Pt-loaded on mesoporous WO_3 . <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 473-481.	4.0	181
5	The room temperature gas sensor based on Polyaniline@flower-like WO_3 nanocomposites and flexible PET substrate for NH_3 detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 505-513.	4.0	159
6	Enhancement of NO_2 gas sensing response based on ordered mesoporous Fe-doped In_2O_3 . <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 806-812.	4.0	141
7	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
8	High-temperature sensors for NO and NO_2 based on stabilized zirconia and spinel-type oxide electrodes. <i>Journal of Materials Chemistry</i> , 1997, 7, 1445-1449.	6.7	130
9	A highly sensitive and moisture-resistant gas sensor for diabetes diagnosis with Pt@ In_2O_3 nanowires and a molecular sieve for protection. <i>NPG Asia Materials</i> , 2018, 10, 293-308.	3.8	129
10	Preparation of Ag-loaded mesoporous WO_3 and its enhanced NO_2 sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 544-552.	4.0	127
11	One-step synthesis and gas sensing properties of hierarchical Cd-doped SnO_2 nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 32-39.	4.0	122
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	Cu-doped Fe_2O_3 hierarchical microcubes: Synthesis and gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 616-622.	4.0	115
14	Hierarchical flower-like WO_3 nanostructures and their gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 224-230.	4.0	111
15	APTES-functionalized thin-walled porous WO_3 nanotubes for highly selective sensing of NO_2 in a polluted environment. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10976-10989.	5.2	100
16	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
17	Mixed-potential type NH_3 sensor based on stabilized zirconia and $\text{Ni}_3\text{V}_2\text{O}_8$ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 795-802.	4.0	96
18	Ultrasensitive gas sensor based on hollow tungsten trioxide-nickel oxide ($\text{WO}_3\text{-NiO}$) nanoflowers for fast and selective xylene detection. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 458-468.	5.0	90

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19	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
20	Yellow-Emissive Carbon Dot-Based Optical Sensing Platforms: Cell Imaging and Analytical Applications for Biocatalytic Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7737-7744.	4.0	87
21	Preparation and gas sensing properties of hierarchical flower-like In ₂ O ₃ microspheres. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 405-412.	4.0	84
22	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
23	Realizing the Control of Electronic Energy Level Structure and Gas-Sensing Selectivity over Heteroatom-Doped In ₂ O ₃ Spheres with an Inverse Opal Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9600-9611.	4.0	76
24	The effects of sintering temperature of MnCr ₂ O ₄ nanocomposite on the NO ₂ sensing property for YSZ-based potentiometric sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 397-403.	4.0	73
25	The facile synthesis of MoO ₃ 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
26	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
27	UV-activated ultrasensitive and fast reversible ppb NO ₂ sensing based on ZnO nanorod modified by constructing interfacial electric field with In ₂ O ₃ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127498.	4.0	70
28	Understanding the noble metal modifying effect on In ₂ O ₃ 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
29	Ammonia sensor based on NASICON and Cr ₂ O ₃ electrode. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 479-483.	4.0	65
30	Rational design of 3D inverse opal heterogeneous composite microspheres as excellent visible-light-induced NO ₂ sensors at room temperature. <i>Nanoscale</i> , 2018, 10, 4841-4851.	2.8	63
31	Highly Enhanced Sensing Properties for ZnO Nanoparticle-Decorated Round-Edged γ -Fe ₂ O ₃ Hexahedrons. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8743-8749.	4.0	62
32	Improved NH ₃ , C ₂ H ₅ OH, and CH ₃ COCH ₃ sensing properties of SnO ₂ nanofibers by adding block copolymer P123. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 174-178.	4.0	59
33	Mixed-potential-type NO ₂ sensor using stabilized zirconia and Cr ₂ O ₃ –WO ₃ nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2013, 180, 90-95.	4.0	59
34	Revealing the relationship between the Au decoration method and the enhanced acetone sensing performance of a mesoporous In ₂ O ₃ -based gas sensor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 78-88.	2.7	53
35	High-temperature NO ₂ gas sensor based on stabilized zirconia and CoTa ₂ O ₆ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 148-157.	4.0	52
36	The DNA controllable peroxidase mimetic activity of MoS ₂ nanosheets for constructing a robust colorimetric biosensor. <i>Nanoscale</i> , 2020, 12, 19420-19428.	2.8	52

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37	High Performance Mixed-Potential Type NO _x Sensor Based On Stabilized Zirconia and Oxide Electrode. <i>Solid State Ionics</i> , 2014, 262, 292-297.	1.3	51
38	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
39	Fabrication of Well-Ordered Three-Phase Boundary with Nanostructure Pore Array for Mixed Potential-Type Zirconia-Based NO ₂ Sensor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16752-16760.	4.0	41
40	A multi-platform sensor for selective and sensitive H ₂ 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
41	High performance mixed-potential type NO ₂ sensors based on three-dimensional TPB and Co ₃ V ₂ O ₈ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 121-127.	4.0	40
42	YSZ-based NO ₂ sensor utilizing hierarchical In ₂ O ₃ electrode. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 698-706.	4.0	40
43	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 & Interfaces</i> , 2018, 10, 32913-32921.	4.0	40
44	Gas sensor based on cobalt-doped 3D inverse opal SnO ₂ for air quality monitoring. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130807.	4.0	40
45	Gas sensing with hollow γ -Fe ₂ O ₃ urchin-like spheres prepared via template-free hydrothermal synthesis. <i>CrystEngComm</i> , 2012, 14, 8335.	1.3	38
46	Mixed-potential type NO sensor using stabilized zirconia and MoO ₃ @In ₂ O ₃ nanocomposites. <i>Ceramics International</i> , 2016, 42, 12503-12507.	2.3	37
47	Fabrication of well-ordered porous array mounted with gold nanoparticles and enhanced sensing properties for mixed potential-type zirconia-based NH ₃ sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1083-1091.	4.0	37
48	A rapid-response room-temperature planar type gas sensor based on DPA-Ph-DBPzDCN for the sensitive detection of NH ₃ . <i>Journal of Materials Chemistry A</i> , 2019, 7, 4744-4750.	5.2	37
49	Microwave hydrothermal synthesis and gas sensing application of porous ZnO core@shell microstructures. <i>RSC Advances</i> , 2014, 4, 32538.	1.7	36
50	High-temperature stabilized zirconia-based sensors utilizing MNb ₂ O ₆ (M: Co, Ni and Zn) sensing electrodes for detection of NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 523-530.	4.0	35
51	Humidity sensor based on solution processible microporous silica nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 131-138.	4.0	34
52	Er ³⁺ 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
53	One-step synthesis and gas sensing characteristics of urchin-like In ₂ O ₃ . <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 61-66.	4.0	31
54	A TPA-DCPP organic semiconductor film-based room temperature NH ₃ sensor for insight into the sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128940.	4.0	25

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55	Mixed potential type H ₂ S sensor based on stabilized zirconia and a Co ₂ SnO ₄ sensing electrode for halitosis monitoring. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128587.	4.0	23
56	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
57	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
58	Insight into the effect of the continuous testing and aging on the SO ₂ sensing characteristics of a YSZ (Yttria-stabilized Zirconia)-based sensor utilizing ZnGa ₂ O ₄ and Pt electrodes. <i>Journal of Hazardous Materials</i> , 2020, 388, 121772.	6.5	17
59	Ti ₃ C ₂ MXene Nanosheets Functionalized with NaErF ₄ :0.5%Tm@NaLuF ₄ 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
60	Mixed potential type YSZ-based NO ₂ sensors with efficient three-dimensional three-phase boundary processed by electrospinning. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131219.	4.0	14
61	Improvement of NO ₂ sensing characteristic for mixed potential type gas sensor based on YSZ and Rh/Co ₃ V ₂ O ₈ sensing electrode. <i>RSC Advances</i> , 2017, 7, 49440-49445.	1.7	11
62	Bioinspired spike-like double yolk-shell structured TiO ₂ @ZnIn ₂ S ₄ for efficient photocatalytic CO ₂ reduction. <i>Catalysis Science and Technology</i> , 2022, 12, 1092-1099.	2.1	9
63	Revealing the correlation between gas selectivity and semiconductor energy band structure derived from off-stoichiometric spinel CdGa ₂ O ₄ . <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131039.	4.0	8
64	Interfacial Stress-Modulated Mechanosensitive Upconversion Luminescence of NaErF ₄ Based Heteroepitaxial Core-Shell Nanoparticles. <i>Advanced Optical Materials</i> , 2022, 10, 2101702.	3.6	8
65	Photonic Crystal Effects on Upconversion Enhancement of LiErF ₄ :0.5%Tm ³⁺ @LiYF ₄ for Noncontact Cholesterol Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 428-438.	4.0	8
66	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