

Yuan Gao

List of Publications by Year in descending order

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68
papers

5,216
citations

81839

39
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95218

68
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all docs

68
docs citations

68
times ranked

6206
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption and removal of tetracycline antibiotics from aqueous solution by graphene oxide. Journal of Colloid and Interface Science, 2012, 368, 540-546.	5.0	1,180
2	Humidity-Sensing Properties of Urchinlike CuO Nanostructures Modified by Reduced Graphene Oxide. ACS Applied Materials & Interfaces, 2014, 6, 3888-3895.	4.0	184
3	Acetone gas sensor based on NiO/ZnO hollow spheres: Fast response and recovery, and low (ppb) detection limit. Journal of Colloid and Interface Science, 2017, 495, 207-215.	5.0	182
4	NH ₃ gas sensing performance enhanced by Pt-loaded on mesoporous WO ₃ . Sensors and Actuators B: Chemical, 2017, 238, 473-481.	4.0	181
5	Dual functional N- and S-co-doped carbon dots as the sensor for temperature and Fe ³⁺ ions. Sensors and Actuators B: Chemical, 2017, 242, 1272-1280.	4.0	177
6	Room temperature NO ₂ gas sensor based on porous Co ₃ O ₄ slices/reduced graphene oxide hybrid. Sensors and Actuators B: Chemical, 2018, 263, 387-399.	4.0	159
7	The room temperature gas sensor based on Polyaniline@flower-like WO ₃ nanocomposites and flexible PET substrate for NH ₃ detection. Sensors and Actuators B: Chemical, 2018, 259, 505-513.	4.0	159
8	Preparation of Ag-loaded mesoporous WO ₃ and its enhanced NO ₂ sensing performance. Sensors and Actuators B: Chemical, 2016, 225, 544-552.	4.0	127
9	Enhanced gas sensing properties to acetone vapor achieved by γ -Fe ₂ O ₃ particles ameliorated with reduced graphene oxide sheets. Sensors and Actuators B: Chemical, 2017, 241, 904-914.	4.0	124
10	Flower-like In ₂ O ₃ modified by reduced graphene oxide sheets serving as a highly sensitive gas sensor for trace NO ₂ detection. Journal of Colloid and Interface Science, 2017, 504, 206-213.	5.0	113
11	Ultrasensitive and low detection limit of nitrogen dioxide gas sensor based on flower-like ZnO hierarchical nanostructure modified by reduced graphene oxide. Sensors and Actuators B: Chemical, 2017, 249, 715-724.	4.0	107
12	Improvement of NO ₂ gas sensing performance based on discoid tin oxide modified by reduced graphene oxide. Sensors and Actuators B: Chemical, 2016, 227, 419-426.	4.0	102
13	Enhanced sensitive and selective xylene sensors using W-doped NiO nanotubes. Sensors and Actuators B: Chemical, 2015, 221, 1475-1482.	4.0	101
14	Au-loaded mesoporous WO ₃ : Preparation and n-butanol sensing performances. Sensors and Actuators B: Chemical, 2016, 236, 67-76.	4.0	92
15	Ultra-sensitive sensing platform based on Pt-ZnO-In ₂ O ₃ nanofibers for detection of acetone. Sensors and Actuators B: Chemical, 2018, 272, 185-194.	4.0	90
16	A fluorescent biosensor based on molybdenum disulfide nanosheets and protein aptamer for sensitive detection of carcinoembryonic antigen. Sensors and Actuators B: Chemical, 2018, 273, 185-190.	4.0	88
17	The preparation of reduced graphene oxide-encapsulated γ -Fe ₂ O ₃ hybrid and its outstanding NO ₂ gas sensing properties at room temperature. Sensors and Actuators B: Chemical, 2018, 261, 252-263.	4.0	87
18	Flower-like WO ₃ architectures synthesized via a microwave-assisted method and their gas sensing properties. Sensors and Actuators B: Chemical, 2013, 186, 734-740.	4.0	76

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19	Horseshoe-shaped SnO ₂ with annulus-like mesoporous for ethanol gas sensing application. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 1321-1329.	4.0	76
20	Room temperature gas sensor based on tin dioxide@ polyaniline nanocomposite assembled on flexible substrate: ppb-level detection of NH ₃ . <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126970.	4.0	75
21	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
22	Highly sensitive sensors based on quasi-2D rGO/SnS ₂ hybrid for rapid detection of NO ₂ gas. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 216-225.	4.0	73
23	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
24	Enhanced NO ₂ gas sensing properties by Ag-doped hollow urchin-like In ₂ O ₃ hierarchical nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 418-427.	4.0	65
25	Fluorometric method for the determination of hydrogen peroxide and glucose with Fe ₃ O ₄ as catalyst. <i>Talanta</i> , 2011, 85, 1075-1080.	2.9	62
26	Enhanced sensing response towards NO ₂ based on ordered mesoporous Zr-doped In ₂ O ₃ with low operating temperature. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 806-813.	4.0	62
27	Hydrothermal synthesis and gas-sensing properties of flower-like Sn ₃ O ₄ . <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 128-133.	4.0	60
28	Lower coordination Co ₃ O ₄ mesoporous hierarchical microspheres for comprehensive sensitization of triethylamine vapor sensor. <i>Journal of Hazardous Materials</i> , 2022, 430, 128469.	6.5	59
29	Graphene oxide-based magnetic fluorescent hybrids for drug delivery and cellular imaging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 128-133.	2.5	55
30	Carbon dots decorated hierarchical litchi-like In ₂ O ₃ nanospheres for highly sensitive and selective NO ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127272.	4.0	54
31	Protein-Integrated Inorganic Hybrid Nanoflower-Rooted Agarose Hydrogel Platform for Point-of-Care Detection of Acetylcholine. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11857-11864.	4.0	53
32	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
33	Electrically Conductive Coordination Polymer for Highly Selective Chemiresistive Sensing of Volatile Amines. <i>Inorganic Chemistry</i> , 2018, 57, 541-544.	1.9	51
34	A pulse-driven sensor based on ordered mesoporous Ag ₂ O/SnO ₂ with improved H ₂ S-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 529-538.	4.0	48
35	Solvothermal synthesis of porous CuFe ₂ O ₄ nanospheres for high performance acetone sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 538-544.	4.0	45
36	Highly sensitive and selective detection of biothiols using graphene oxide-based ðœmolecular beacon-like fluorescent probe. <i>Analytica Chimica Acta</i> , 2012, 731, 68-74.	2.6	44

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37	Vitamin C-assisted synthesis and gas sensing properties of coaxial In ₂ O ₃ nanorod bundles. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 68-74.	4.0	44
38	Mesoporous ZnFe ₂ O ₄ prepared through hard template and its acetone sensing properties. <i>Materials Letters</i> , 2016, 183, 378-381.	1.3	44
39	Highly sensitive and humidity-independent ethanol sensors based on In ₂ O ₃ /SnO ₂ nanoparticle composites. <i>RSC Advances</i> , 2015, 5, 52252-52258.	1.7	42
40	Metal-organic frameworks derived tin-doped cobalt oxide yolk-shell nanostructures and their gas sensing properties. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 53-62.	5.0	42
41	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
42	Template-free synthesis of novel In ₂ O ₃ nanostructures and their application to gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 32-38.	4.0	39
43	Highly enhanced NO ₂ sensing performances of Cu-doped In ₂ O ₃ hierarchical flowers. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 297-304.	4.0	38
44	A low temperature operating gas sensor with high response to NO ₂ based on ordered mesoporous Ni-doped In ₂ O ₃ . <i>New Journal of Chemistry</i> , 2016, 40, 2376-2382.	1.4	38
45	Interface interaction of MoS ₂ nanosheets with DNA based aptameric biosensor for carbohydrate antigen 15 ⁺ detection. <i>Microchemical Journal</i> , 2020, 155, 104675.	2.3	38
46	Gas sensor based on samarium oxide loaded mulberry-shaped tin oxide for highly selective and sub ppm-level acetone detection. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 74-82.	5.0	35
47	Fluorescent hydrogel test kit coordination with smartphone: Robust performance for on-site dimethoate analysis. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111706.	5.3	35
48	High-response and low-temperature nitrogen dioxide gas sensor based on gold-loaded mesoporous indium trioxide. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 368-378.	5.0	34
49	Preparation of silver-loaded titanium dioxide hedgehog-like architecture composed of hundreds of nanorods and its fast response to xylene. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 215-223.	5.0	33
50	Bifunctional Thiourea ⁺ Ammonium Salt Catalysts Derived from Cinchona Alkaloids: Cooperative Phase-Transfer Catalysts in the Enantioselective Aza-Henry Reaction of Ketimines. <i>Journal of Organic Chemistry</i> , 2018, 83, 1486-1492.	1.7	32
51	Hierarchical core/shell ZnO/NiO nanoheterojunctions synthesized by ultrasonic spray pyrolysis and their gas-sensing performance. <i>CrystEngComm</i> , 2016, 18, 8101-8107.	1.3	31
52	Facile synthesis of nitrogen and sulfur co-doped carbon dots for multiple sensing capacities: alkaline fluorescence enhancement effect, temperature sensing, and selective detection of Fe ³⁺ ions. <i>New Journal of Chemistry</i> , 2018, 42, 13147-13156.	1.4	26
53	Controlled synthesis of hierarchical Sn-doped γ -Fe ₂ O ₃ with novel sheaf-like architectures and their gas sensing properties. <i>RSC Advances</i> , 2013, 3, 7112.	1.7	23
54	STED Nanoscopy Imaging of Cellular Lipid Droplets Employing a Superior Organic Fluorescent Probe. <i>Analytical Chemistry</i> , 2021, 93, 14784-14791.	3.2	23

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55	Solvent-controlled synthesis of full-color carbon dots and its application as a fluorescent food-tasting sensor for specific recognition of jujube species. <i>Sensors and Actuators B: Chemical</i> , 2021, 342, 129963.	4.0	21
56	Detection of low concentration acetone utilizing semiconductor gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5478-5484.	1.1	20
57	Monodisperse WO ₃ hierarchical spheres synthesized via a microwave assisted hydrothermal method: time dependent morphologies and gas sensing characterization. <i>RSC Advances</i> , 2014, 4, 23281.	1.7	17
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	Room-Temperature Mixed-Potential Type ppb-Level NO Sensors Based on K ₂ Fe ₄ O ₇ Electrolyte and Ni/Fe-MOF Sensing Electrodes. <i>ACS Sensors</i> , 2021, 6, 4435-4442.	4.0	16
60	Enhanced resistive acetone sensing by using hollow spherical composites prepared from MoO ₃ and In ₂ O ₃ . <i>Mikrochimica Acta</i> , 2019, 186, 359.	2.5	15
61	Amperometric H ₂ S sensor based on a Pt-Ni alloy electrode and a proton conducting membrane. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127900.	4.0	13
62	An enantioselective aza-Henry reaction of trifluoromethyl ketimines catalyzed by phase-transfer catalysts. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3269-3273.	2.3	12
63	Asymmetric synthesis of spirooxindole-pyranoindole products via Friedel-Crafts alkylation/cyclization of the indole carbocyclic ring. <i>New Journal of Chemistry</i> , 2020, 44, 9788-9792.	1.4	12
64	Cadmium sulfide in-situ derived heterostructure hybrids with tunable component ratio for highly sensitive and selective detection of ppb-level H ₂ S. <i>Journal of Colloid and Interface Science</i> , 2022, 627, 332-342.	5.0	8
65	Highly Selective Solid-Phase Extraction of Pb(II) by Ion-Imprinted Superparamagnetic Mesoporous Silica. <i>ChemistrySelect</i> , 2019, 4, 259-264.	0.7	7
66	Enantioselective addition of thiols to trifluoromethyl ketimines: synthesis of N-, S-ketals. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 7431-7436.	1.5	6
67	Highly sensitive mixed-potential type ethanol sensors based on stabilized zirconia and ZnNb ₂ O ₆ sensing electrode. <i>RSC Advances</i> , 2016, 6, 27197-27204.	1.7	5
68	One-step synthesis and gas sensing properties of hierarchical SnO ₂ materials. <i>Chemical Research in Chinese Universities</i> , 2013, 29, 837-840.	1.3	4