

# Jiaqiang Xu

## List of Publications by Year in descending order

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141  
papers

7,475  
citations

46918

47  
h-index

60497

81  
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142  
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142  
docs citations

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times ranked

8967  
citing authors

#	ARTICLE	IF	CITATIONS
1	Brush-Like Hierarchical ZnO Nanostructures: Synthesis, Photoluminescence and Gas Sensor Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3430-3435.	1.5	343
2	Studies on alcohol sensing mechanism of ZnO based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 334-339.	4.0	300
3	Bimetal PdAu decorated SnO <sub>2</sub> nanosheets based gas sensor with temperature-dependent dual selectivity for detecting formaldehyde and acetone. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 590-601.	4.0	300
4	Recent progress in advanced electrode materials, separators and electrolytes for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20564-20620.	5.2	295
5	Recent Progresses in Electrocatalysts for Water Electrolysis. <i>Electrochemical Energy Reviews</i> , 2018, 1, 483-530.	13.1	285
6	Facile Hydrothermal Synthesis of VS <sub>2</sub> /Graphene Nanocomposites with Superior High-Rate Capability as Lithium-Ion Battery Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13044-13052.	4.0	210
7	Facile synthesis of reduced graphene oxide/hexagonal WO <sub>3</sub> nanosheets composites with enhanced H <sub>2</sub> S sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 736-745.	4.0	200
8	The crystal facet-dependent gas sensing properties of ZnO nanosheets: Experimental and computational study. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 148-157.	4.0	199
9	One-step synthesis of zinc-cobalt layered double hydroxide (Zn-Co-LDH) nanosheets for high-efficiency oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6878-6883.	5.2	177
10	A low temperature formaldehyde gas sensor based on hierarchical SnO/SnO <sub>2</sub> nano-flowers assembled from ultrathin nanosheets: Synthesis, sensing performance and mechanism. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 106-115.	4.0	173
11	Advanced metal-organic frameworks (MOFs) and their derived electrode materials for supercapacitors. <i>Journal of Power Sources</i> , 2018, 402, 281-295.	4.0	160
12	Self-assemblies of Pd nanoparticles on the surfaces of single crystal ZnO nanowires for chemical sensors with enhanced performances. <i>Journal of Materials Chemistry</i> , 2009, 19, 4701.	6.7	157
13	Porous corundum-type In <sub>2</sub> O <sub>3</sub> nanosheets: Synthesis and NO <sub>2</sub> sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 436-443.	4.0	143
14	Valence band engineering and thermoelectric performance optimization in SnTe by Mn-alloying via a zone-melting method. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19974-19979.	5.2	141
15	PdPt Bimetal-Functionalized SnO <sub>2</sub> Nanosheets: Controllable Synthesis and its Dual Selectivity for Detection of Carbon Monoxide and Methane. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26116-26126.	4.0	131
16	Hydrothermal synthesis of hierarchical SnO <sub>2</sub> microspheres for gas sensing and lithium-ion batteries applications: Fluoride-mediated formation of solid and hollow structures. <i>Journal of Materials Chemistry</i> , 2012, 22, 2140-2148.	6.7	112
17	Porous corundum-type In <sub>2</sub> O <sub>3</sub> nanoflowers: controllable synthesis, enhanced ethanol-sensing properties and response mechanism. <i>CrystEngComm</i> , 2015, 17, 3268-3276.	1.3	111
18	Engineering of Facets, Band Structure, and Gas Sensing Properties of Hierarchical Sn <sub>2</sub> -Doped SnO <sub>2</sub> Nanostructures. <i>Advanced Functional Materials</i> , 2013, 23, 4847-4853.	7.8	108

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19	Amine-Functionalized SBA-15 with Uniform Morphology and Well-Defined Mesostructure for Highly Sensitive Chemosensors To Detect Formaldehyde Vapor. <i>Langmuir</i> , 2012, 28, 7843-7850.	1.6	107
20	Three Dimensional PtRh Alloy Porous Nanostructures: Tuning the Atomic Composition and Controlling the Morphology for the Application of Direct Methanol Fuel Cells. <i>Advanced Functional Materials</i> , 2012, 22, 3570-3575.	7.8	103
21	Controllable Evolution of Dual Defect Zn <sub>i</sub> and V <sub>O</sub> Associate-Rich ZnO Nanodishes with (0001) Exposed Facet and Its Multiple Sensitization Effect for Ethanol Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 41559-41567.	4.0	102
22	Polydopamine nanotubes: bio-inspired synthesis, formaldehyde sensing properties and thermodynamic investigation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3487-3493.	5.2	99
23	PtW/MoS <sub>2</sub> hybrid nanocomposite for electrochemical sensing of H <sub>2</sub> O <sub>2</sub> released from living cells. <i>Biosensors and Bioelectronics</i> , 2016, 80, 601-606.	5.3	96
24	Evolution of ZnO microstructures from hexagonal disk to prismoid, prism and pyramid and their crystal facet-dependent gas sensing properties. <i>CrystEngComm</i> , 2014, 16, 7062.	1.3	95
25	Porous $\pm$ -MoO <sub>3</sub> /MWCNT Nanocomposite Synthesized via a Surfactant-Assisted Solvothermal Route as a Lithium-Ion-Battery High-Capacity Anode Material with Excellent Rate Capability and Cyclability. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 15531-15541.	4.0	95
26	Indium Oxide with Novel Morphology: Synthesis and Application in C <sub>2</sub> H <sub>5</sub> OH Gas Sensing. <i>Crystal Growth and Design</i> , 2009, 9, 2146-2151.	1.4	93
27	Synthesis of mesoporous SnO <sub>2</sub> @SiO <sub>2</sub> composites and their application as quartz crystal microbalance humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 320-325.	4.0	83
28	A MnO <sub>2</sub> /Graphene Oxide/Multi-Walled Carbon Nanotubes-Sulfur Composite with Dual-Efficient Polysulfide Adsorption for Improving Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 28566-28573.	4.0	77
29	A review of carbon dots and their composite materials for electrochemical energy technologies. , 2021, 3, 795-826.		77
30	The fabrication and triethylamine sensing performance of In-MIL-68 derived In <sub>2</sub> O <sub>3</sub> with porous lacunaris structure. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128791.	4.0	76
31	High performance formaldehyde detection based on a novel copper (II) complex functionalized QCM gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 820-828.	4.0	75
32	Highly stable and sensitive humidity sensors based on quartz crystal microbalance coated with hexagonal lamelliform monodisperse mesoporous silica SBA-15 thin film. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 164-169.	4.0	72
33	Enhanced thermopower in rock-salt SnTe@CdTe from band convergence. <i>RSC Advances</i> , 2016, 6, 32189-32192.	1.7	72
34	Electrochemistry of Nitrogen-Doped Carbon Nanotubes (CN <sub>x</sub> ) with Different Nitrogen Content and Its Application in Simultaneous Determination of Dihydroxybenzene Isomers. <i>Electroanalysis</i> , 2008, 20, 1981-1986.	1.5	71
35	Metal organic framework of MOF-5 with hierarchical nanopores as micro-gravimetric sensing material for aniline detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 639-647.	4.0	67
36	QCM formaldehyde sensing materials: Design and sensing mechanism. <i>Sensors and Actuators B: Chemical</i> , 2019, 293, 71-82.	4.0	63

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37	Fast-response MEMS xylene gas sensor based on CuO/WO <sub>3</sub> hierarchical structure. Journal of Hazardous Materials, 2022, 429, 127471.	6.5	63
38	Biotemplate fabrication of SnO <sub>2</sub> nanotubular materials by a sonochemical method for gas sensors. Journal of Nanoparticle Research, 2010, 12, 1389-1400.	0.8	60
39	Ultrafine Tungsten Oxide Nanowires: Synthesis and Highly Selective Acetone Sensing and Mechanism Analysis. ACS Applied Materials & Interfaces, 2020, 12, 3755-3763.	4.0	58
40	A benzene vapor sensor based on a metal-organic framework-modified quartz crystal microbalance. Sensors and Actuators B: Chemical, 2020, 311, 127365.	4.0	58
41	Selective BTEX sensor based on a SnO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> composite. Sensors and Actuators B: Chemical, 2013, 186, 126-131.	4.0	57
42	Nano-SnO <sub>2</sub> /Carbon Nanotube Hairball Composite as a High-Capacity Anode Material for Lithium Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 4195-4203.	3.2	55
43	Direct electrodeposition of cable-like CuO@Cu nanowires array for non-enzymatic sensing. Talanta, 2015, 132, 719-726.	2.9	54
44	Superhydrophilic ZnO nanoneedle array: Controllable in situ growth on QCM transducer and enhanced humidity sensing properties and mechanism. Sensors and Actuators B: Chemical, 2018, 263, 436-444.	4.0	54
45	Highly sensitive BTEX sensors based on hexagonal WO <sub>3</sub> nanosheets. Sensors and Actuators B: Chemical, 2019, 293, 23-30.	4.0	54
46	Facile preparation of N-rich functional polymer with porous framework as QCM sensing material for rapid humidity detection. Sensors and Actuators B: Chemical, 2019, 288, 289-297.	4.0	54
47	Biomimetic synthesis of zeolitic imidazolate frameworks and their application in high performance acetone gas sensors. Sensors and Actuators B: Chemical, 2020, 302, 127187.	4.0	54
48	Air Vortices and Nano-Vibration of Aerostatic Bearings. Tribology Letters, 2011, 42, 179-183.	1.2	50
49	High-Sensitive MEMS Hydrogen Sulfide Sensor made from PdRh Bimetal Hollow Nanoframe Decorated Metal Oxides and Sensitization Mechanism Study. ACS Applied Materials & Interfaces, 2020, 12, 56203-56215.	4.0	50
50	Monodisperse AuM (M=Pd, Rh, Pt) bimetallic nanocrystals for enhanced electrochemical detection of H <sub>2</sub> O <sub>2</sub> . Sensors and Actuators B: Chemical, 2015, 207, 404-412.	4.0	44
51	Enhanced CO sensing properties of Pd modified ZnO porous nanosheets. Chinese Chemical Letters, 2020, 31, 2033-2036.	4.8	44
52	Ultralow detection limit MEMS hydrogen sensor based on SnO <sub>2</sub> with oxygen vacancies. Sensors and Actuators B: Chemical, 2022, 354, 130982.	4.0	44
53	Fluoroalcohol and fluorinated-phenol derivatives functionalized mesoporous SBA-15 hybrids: high-performance gas sensing toward nerve agent. Journal of Materials Chemistry, 2012, 22, 2263-2270.	6.7	41
54	Highly sensitive ethanol gas sensor based on ultrathin nanosheets assembled Bi <sub>2</sub> WO <sub>6</sub> with composite phase. Science Bulletin, 2019, 64, 595-602.	4.3	40

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55	3D flower-like Ni doped CeO <sub>2</sub> based gas sensor for H <sub>2</sub> S detection and its sensitive mechanism. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131227.	4.0	40
56	Co~Ni Binary~Metal Oxide Coated with Porous Carbon Derived from Metal~Organic Framework as Host of Nano~Sulfur for Lithium~Sulfur Batteries. <i>Batteries and Supercaps</i> , 2020, 3, 108-116.	2.4	38
57	One novel humidity-resistance formaldehyde molecular probe based hydrophobic diphenyl sulfone urea dry-gel: Synthesis, sensing performance and mechanism. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 590-600.	4.0	37
58	Synthesis of functionalized mesoporous TiO <sub>2</sub> -SiO <sub>2</sub> with organic fluoroalcohol as high performance DMMP gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 785-792.	4.0	36
59	Light enhanced room temperature resistive NO <sub>2</sub> sensor based on a gold-loaded organic~inorganic hybrid perovskite incorporating tin dioxide. <i>Mikrochimica Acta</i> , 2019, 186, 47.	2.5	35
60	Multishell SnO <sub>2</sub> Hollow Microspheres Loaded with Bimetal PdPt Nanoparticles for Ultrasensitive and Rapid Formaldehyde MEMS Sensors. <i>ACS Sensors</i> , 2022, 7, 1484-1494.	4.0	35
61	Lead-free organic~inorganic hybrid perovskite heterojunction composites for photocatalytic applications. <i>Catalysis Science and Technology</i> , 2017, 7, 2753-2762.	2.1	33
62	IrNi nanoparticle-decorated flower-shaped NiCo <sub>2</sub> O <sub>4</sub> nanostructures: controllable synthesis and enhanced electrochemical activity for oxygen evolution reaction. <i>Science China Materials</i> , 2017, 60, 119-130.	3.5	32
63	Monodispersed mesoporous SBA-15 with novel morphologies: controllable synthesis and morphology dependence of humidity sensing. <i>CrystEngComm</i> , 2011, 13, 402-405.	1.3	31
64	Improvement of Amperometric Biosensor Performance for H <sub>2</sub> O <sub>2</sub> Detection based on Bimetallic PtM (M = Ru, Au, and Ir) Nanoparticles. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-8.	2.4	31
65	CuO nanoparticles incorporated in hierarchical MFI zeolite as highly active electrocatalyst for non-enzymatic glucose sensing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 206-212.	2.5	31
66	A 3D Calcium Spirobifluorene Metal~Organic Framework: Single-Crystal-to-Single-Crystal Transformation and Toluene Detection by a Quartz Crystal Microbalance Sensor. <i>Inorganic Chemistry</i> , 2018, 57, 1689-1692.	1.9	31
67	Morphology and size effect of Pd nanocrystals on formaldehyde and hydrogen sensing performance of SnO <sub>2</sub> based gas sensor. <i>Journal of Alloys and Compounds</i> , 2022, 906, 163765.	2.8	31
68	Bimetallic Nanocrystals: Structure, Controllable Synthesis and Applications in Catalysis, Energy and Sensing. <i>Nanomaterials</i> , 2021, 11, 1926.	1.9	30
69	A metal~organic framework constructed using a flexible tripodal ligand and tetranuclear copper cluster for sensing small molecules. <i>Dalton Transactions</i> , 2015, 44, 7770-7773.	1.6	29
70	Rational design and <i>in situ</i> growth of SnO <sub>2</sub> /CMF composites: insightful understanding of the formaldehyde gas sensing mechanism and enhanced gas sensing properties. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12418-12426.	2.7	29
71	Integrated Pt <sub>2</sub> Ni alloy@Pt core~shell nanoarchitectures with high electrocatalytic activity for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11400.	5.2	28
72	Selenium/pomelo peel-derived carbon nanocomposite as advanced cathode for lithium-selenium batteries. <i>Ionics</i> , 2015, 21, 2477-2484.	1.2	27

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73	Controllable preparation of ultrathin MXene nanosheets and their excellent QCM humidity sensing properties enhanced by fluoride doping. <i>Mikrochimica Acta</i> , 2021, 188, 81.	2.5	27
74	PdPt Nanoparticle-Functionalized $\text{Fe}_2\text{O}_3$ Hollow Nanorods for Triethylamine Sensing. <i>ACS Applied Nano Materials</i> , 2021, 4, 10921-10930.	2.4	27
75	CdSnO <sub>3</sub> micro-cubes with porous architecture: synthesis and gas-sensing properties. <i>CrystEngComm</i> , 2009, 11, 2615.	1.3	26
76	Superhydrophobic Polymerized $\gamma$ -Octadecylsilane Surface for BTEX Sensing and Stable Toluene/Water Selective Detection Based on QCM Sensor. <i>ACS Omega</i> , 2018, 3, 2437-2443.	1.6	26
77	Three-dimensional Porous TiNb <sub>2</sub> O <sub>7</sub> /CNT Composite Microspheres as Lithium-ion Battery Anode Material. <i>ChemElectroChem</i> , 2019, 6, 3959-3965.	1.7	25
78	Facile Synthesis of Ordered Mesoporous Zirconia for Electrochemical Enrichment and Detection of Organophosphorus Pesticides. <i>Electroanalysis</i> , 2018, 30, 2121-2130.	1.5	24
79	Hydrogen peroxide biosensor based on direct electrochemistry of hemoglobin immobilized on gold nanoparticles in a hierarchically porous zeolite. <i>Mikrochimica Acta</i> , 2013, 180, 1333-1340.	2.5	23
80	4,4'-Diaminodiphenyl Sulfone Functionalized SBA-15: Toluene Sensing Properties and Improved Proton Conductivity. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1879-1886.	1.5	23
81	Electrochemical sensor based on EDTA intercalated into layered double hydroxides of magnesium and aluminum for ultra trace level detection of lead (II). <i>Mikrochimica Acta</i> , 2015, 182, 653-659.	2.5	23
82	Coal mine gases sensors with dual selectivity at variable temperatures based on a W18O49 ultra-fine nanowires/Pd@Au bimetallic nanoparticles composite. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131004.	4.0	23
83	A review of sodium chloride-based electrolytes and materials for electrochemical energy technology. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2637-2671.	5.2	23
84	Reagentless amperometric glucose biosensor based on the immobilization of glucose oxidase on a ferrocene@NaY zeolite composite. <i>Mikrochimica Acta</i> , 2011, 174, 281-288.	2.5	22
85	Direct electrodeposition of highly ordered gold nanotube arrays for use in non-enzymatic amperometric sensing of glucose. <i>Mikrochimica Acta</i> , 2016, 183, 1925-1932.	2.5	22
86	NH <sub>3</sub> Sensing Mechanism Investigation of CuBr: Different Complex Interactions of the Cu <sup>+</sup> Ion with NH <sub>3</sub> and O <sub>2</sub> Molecules. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2014-2019.	1.5	21
87	Rational design and synthesis of aldehyde-functionalized mesoporous SBA-15 for high-performance ammonia sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 888-895.	4.0	21
88	Facile Chemical Bath Synthesis of SnS Nanosheets and Their Ethanol Sensing Properties. <i>Sensors</i> , 2019, 19, 2581.	2.1	21
89	High-rate performance aqueous-based supercapacitors at $\sim 30^\circ\text{C}$ driven by novel 1D Ni(OH) <sub>2</sub> nanorods and a two-solute electrolyte. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23860-23872.	5.2	21
90	Highly effective and specific way for the trace analysis of carbaryl insecticides based on Au <sub>42</sub> Rh <sub>58</sub> alloy nanocrystals. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7064-7071.	5.2	19

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91	Micro-spherical ZnSnO <sub>3</sub> material prepared by microwave-assisted method and its ethanol sensing properties. Chinese Chemical Letters, 2020, 31, 2087-2090.	4.8	19
92	Dipolar and catalytic effects of an Fe <sub>3</sub> O <sub>4</sub> based nitrogen-doped hollow carbon sphere framework for high performance lithium sulfur batteries. Inorganic Chemistry Frontiers, 2021, 8, 1771-1778.	3.0	19
93	Monodispersed gold nanoparticles entrapped in ordered mesoporous carbon/silica nanocomposites as xanthine oxidase mimic for electrochemical sensing of xanthine. Mikrochimica Acta, 2020, 187, 543.	2.5	18
94	The SnO <sub>2</sub> /MXene Composite Ethanol Sensor Based on MEMS Platform. Chemosensors, 2022, 10, 109.	1.8	18
95	Synthesis and gas sensing properties of perovskite CdSnO <sub>3</sub> nanoparticles. Applied Physics A: Materials Science and Processing, 2009, 94, 837-841.	1.1	16
96	Urea-functionalized SBA-15 hybrids: Post-grafting synthesis, high-performance organophosphorus sensing and their response mechanism. Sensors and Actuators B: Chemical, 2018, 273, 1162-1169.	4.0	16
97	Direct confirmation of confinement effects by NiO confined in helical SnO <sub>2</sub> nanocoils and its application in sensors. Journal of Materials Chemistry A, 2022, 10, 2786-2794.	5.2	16
98	Nanocomposite with Polypyrrole Encapsulated within SBA-15 Mesoporous Silica: Preparation and Its Electrochemical Application. Electroanalysis, 2009, 21, 1792-1798.	1.5	15
99	Effects of organotin halide perovskite and Pt nanoparticles in SnO <sub>2</sub> -based sensing materials on the detection of formaldehyde. Journal of Materials Science: Materials in Electronics, 2019, 30, 20624-20637.	1.1	15
100	Superhydrophobic hierarchical porous divinylbenzene polymer for BTEX sensing and toluene/water selective detection. Chinese Chemical Letters, 2020, 31, 2125-2128.	4.8	15
101	Weakened negative effect of Au/TiO <sub>2</sub> photocatalytic activity by CdS quantum dots deposited under UV-vis light illumination at different intensity ratios. Physical Chemistry Chemical Physics, 2016, 18, 29131-29138.	1.3	14
102	Optimizing Li <sub>2</sub> O-2B <sub>2</sub> O <sub>3</sub> coating layer on LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> (NCM811) cathode material for high-performance lithium-ion batteries. International Journal of Green Energy, 2020, 17, 447-455.	2.1	14
103	Enhanced power factor in the promising thermoelectric material SnPb <sub>x</sub> Te prepared via zone-melting. RSC Advances, 2015, 5, 59379-59383.	1.7	13
104	Design, synthesis and properties of a reactive chromophoric/fluorometric probe for hydrogen peroxide detection. New Journal of Chemistry, 2017, 41, 3790-3797.	1.4	13
105	Nuclease-free target recycling signal amplification for ultrasensitive multiplexing DNA biosensing. Biosensors and Bioelectronics, 2017, 94, 605-608.	5.3	13
106	An Electrochemical Sensor Based on Gold Nanoparticles Incorporated in Mesoporous MFI Zeolite for Determination of Purine Bases in DNA. Electroanalysis, 2017, 29, 1618-1625.	1.5	13
107	Honeycomb-like polyaniline for flexible and folding all-solid-state supercapacitors. Frontiers of Materials Science, 2019, 13, 133-144.	1.1	13
108	Materials design and sensing mechanism of novel calix[6]arene composite for sensitively detecting amine drugs. Chinese Chemical Letters, 2020, 31, 2129-2132.	4.8	13



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109	Enhanced H <sub>2</sub> S sensing performance of BiFeO <sub>3</sub> based MEMS gas sensor with corona poling. <i>Sensors and Actuators B: Chemical</i> , 2022, 358, 131477.	4.0	13
110	Bimetallic Pt-Ru Nanoparticle Catalyst for Hydrogen Peroxide Detection. <i>Journal of Nanotechnology</i> , 2011, 2011, 1-6.	1.5	12
111	In situ controlled growth of well-dispersed Au nanoparticles inside the channels of SBA-15 using a simple, bio-inspired method for surface-enhanced Raman spectroscopy. <i>RSC Advances</i> , 2013, 3, 10154.	1.7	12
112	A two-dimensional porous framework: solvent-induced structural transformation and selective adsorption towards malachite green. <i>Dalton Transactions</i> , 2017, 46, 8350-8353.	1.6	12
113	A SiOC anode material derived from PVA-modified polysiloxane with improved Li-storage cycling stability. <i>Ionics</i> , 2019, 25, 3051-3058.	1.2	12
114	Si doped Fe-N/C catalyst for oxygen reduction reaction directed by ordered mesoporous silica nanospheres template strategy. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 706-715.	5.0	12
115	NaCl-templated and Polyvinylpyrrolidone-Assisted Fabrication of a MnO/C- <i>GO</i> Composite as a High-Capacity Anode Material for Li-ion Batteries. <i>Energy Technology</i> , 2020, 8, 1901194.	1.8	9
116	Highly Selective Chloromethanes Detection Based on Quartz Crystal Microbalance Gas Sensors with Ba-MOFs. <i>Inorganic Chemistry</i> , 2021, 60, 16370-16377.	1.9	9
117	Stepping gating of ion channels on nanoelectrode via DNA hybridization for label-free DNA detection. <i>Biosensors and Bioelectronics</i> , 2019, 133, 141-146.	5.3	8
118	Low-temperature hydrogen detection sensor based on CeO <sub>2</sub> -DOPED SnO <sub>2</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 15785-15793.	1.1	8
119	Effect of Open Metal Sites in Cobalt-Based Bimetallic Metal-Organic Framework Nanoparticles-Coated Quartz Crystal Microbalance (QCM) for Humidity Detection. <i>ACS Applied Nano Materials</i> , 2022, 5, 2147-2155.	2.4	8
120	Materials Design, Sensing Performance and Mechanism of Anhydrous Hydrogen Fluoride Gas Sensor Based on Amino-Functionalized MIL-101(Cr) for New Energy Vehicles. <i>Coatings</i> , 2022, 12, 260.	1.2	8
121	Electrochemical behavior of olivine-type LiMnPO <sub>4</sub> -based material in a mild aqueous electrolyte. <i>Ionics</i> , 2012, 18, 635-641.	1.2	7
122	Preparation and electrochemical properties of core-shelled silicon-carbon composites as anode materials for lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 1123-1132.	1.5	7
123	Comparative analysis of electrochemical performances and capacity degrading behaviors in lithium-ion capacitors based on different anodic materials. <i>Ionics</i> , 2019, 25, 3277-3285.	1.2	7
124	FDU-12 Mesoporous Materials Detection Hg (II) Ions by QCM. <i>Nano</i> , 2016, 11, 1650094.	0.5	6
125	Ethanol sensor based on microrod-like La-doped barium stannate. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 17461-17473.	1.1	5
126	Investigation of Electrochemical Performance and Gas Swelling Behavior on Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /Activated Carbon Lithium-Ion Capacitor with Acetonitrile-Based and Ester-Based Electrolytes. <i>Electronics (Switzerland)</i> , 2021, 10, 2623.	1.8	5



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127	Efficient Synthesis of Yellow-Green Carbon Quantum Dots as a Sensitive Fluorescent Probe of Folic Acid. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	5
128	Graphene Quantum Dot Surface Coating for Improving the Electrochemical Performance of Li-Rich $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ . <i>Energy &amp; Fuels</i> , 2022, 36, 5502-5512.	2.5	5
129	Defective ZnO Nanoflowers Decorated by Ultra-Fine Pd Clusters for Low-Concentration CH <sub>4</sub> Sensing: Controllable Preparation and Sensing Mechanism Analysis. <i>Coatings</i> , 2022, 12, 677.	1.2	5
130	Enhanced lithium storage performance of a self-assembled hierarchical porous Co <sub>3</sub> O <sub>4</sub> /VGCF hybrid high-capacity anode material for lithium-ion batteries. <i>Ionics</i> , 2017, 23, 69-76.	1.2	4
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133	Space charge dynamics in electron beam-irradiated PMMA. <i>Frontiers of Materials Science in China</i> , 2007, 1, 109-113.	0.5	2
134	Remarkable Electrochemical Responses of Ferrocene/NaY Zeolite Composite modified Electrode Based on Hydrophobic Ionic Liquid. <i>Electroanalysis</i> , 2009, 21, 2597-2601.	1.5	2
135	Ultrathin PANI-Decorated, Highly Purified and Well Dispersed Array Cncs for Highly Sensitive HCHO Sensors. <i>Chemosensors</i> , 2021, 9, 276.	1.8	2
136	The preparation of CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> /SnO <sub>2</sub> /Pd/Au gas sensor material for detecting CO and the function of each component. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 7463-7476.	1.1	2
137	In <sub>2</sub> O <sub>3</sub> surface modification of a Li-rich layered cathode material for boosting electrochemical performance. <i>Materials Chemistry and Physics</i> , 2022, 286, 126228.	2.0	2
138	Nonadiabatic dynamics studies of the H( <sup>2</sup> S) + RbH(X <sup>1</sup> Î <sup>+</sup> ) reaction: based on new diabatic potential energy surfaces. <i>RSC Advances</i> , 2022, 12, 19751-19762.	1.7	2
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