

Chemical and biological sensors based on metal oxide n

Chemical Communications

48, 10369

DOI: [10.1039/c2cc34706g](https://doi.org/10.1039/c2cc34706g)

Citation Report

#	ARTICLE	IF	CITATIONS
2	Hierarchical Cu@Co/Ni nanostructures electrodeposited on carbon nanofiber modified glassy carbon electrode: application to glucose detection. <i>Analytical Methods</i> , 2013, 5, 6360.	1.3	42
3	Alumina decorated TiO ₂ nanotubes with ordered mesoporous walls as high sensitivity NO _x gas sensors at room temperature. <i>Nanoscale</i> , 2013, 5, 8569.	2.8	94
4	Eu-doped γ -Fe ₂ O ₃ nanoparticles with modified magnetic properties. <i>Journal of Solid State Chemistry</i> , 2013, 201, 302-311.	1.4	39
5	Wide Linear-Range Detecting Nonenzymatic Glucose Biosensor Based on CuO Nanoparticles Inkjet-Printed on Electrodes. <i>Analytical Chemistry</i> , 2013, 85, 10448-10454.	3.2	180
6	A comprehensive in vitro and in vivo study of ZnO nanoparticles toxicity. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2985.	2.9	103
7	ZnO nanostructures directly grown on paper and bacterial cellulose substrates without any surface modification layer. <i>Chemical Communications</i> , 2013, 49, 8096.	2.2	52
8	Materials-Based Receptors: Design Principle and Applications. <i>Chemistry - A European Journal</i> , 2013, 19, 6914-6936.	1.7	19
9	Cerium oxide-triggered "one-to-many" catalytic cycling strategy for in situ amplified electronic signal of low-abundance protein. <i>Analyst</i> , 2013, 138, 4327.	1.7	10
10	Spruce branched γ -Fe ₂ O ₃ nanostructures as potential scaffolds for a highly sensitive and selective glucose biosensor. <i>New Journal of Chemistry</i> , 2014, 38, 5873-5879.	1.4	23
11	Carboxyl-directed hydrothermal synthesis of WO ₃ nanostructures and their morphology-dependent gas-sensing properties. <i>CrystEngComm</i> , 2014, 16, 10210-10217.	1.3	47
12	High performance cholesterol sensor based on ZnO nanotubes grown on Si/Ag electrodes. <i>Electrochemistry Communications</i> , 2014, 38, 4-7.	2.3	77
13	Polythiophene-WO ₃ hybrid architectures for low-temperature H ₂ S detection. <i>Sensors and Actuators B: Chemical</i> , 2014, 197, 142-148.	4.0	111
14	A review of recent advances in nonenzymatic glucose sensors. <i>Materials Science and Engineering C</i> , 2014, 41, 100-118.	3.8	469
15	Dispersed CuO Nanoparticles on a Silicon Nanowire for Improved Performance of Nonenzymatic H ₂ O ₂ Detection. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7055-7062.	4.0	123
16	CuO nanostructures: Synthesis, characterization, growth mechanisms, fundamental properties, and applications. <i>Progress in Materials Science</i> , 2014, 60, 208-337.	16.0	1,086
17	Highly stable urea sensor based on ZnO nanorods directly grown on Ag/glass electrodes. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 290-295.	4.0	76
18	A simple and template free synthesis of branched ZnO nanoarchitectures for sensor applications. <i>RSC Advances</i> , 2014, 4, 64075-64084.	1.7	32
19	An amperometric cholesterol biosensor with excellent sensitivity and limit of detection based on an enzyme-immobilized microtubular ZnO@ZnS heterostructure. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16997-17004.	5.2	40

#	ARTICLE	IF	CITATIONS
20	Cholesterol biosensing based on highly immobilized ChOx on ZnO hollow nanospheres. RSC Advances, 2014, 4, 46049-46053.	1.7	13
21	Lateral growth of ZnO nanorod arrays in polyhedral structures for high on-current field-effect transistors. Chemical Communications, 2014, 50, 10502.	2.2	6
22	Tailored lysozyme@ZnO nanoparticle conjugates as nanoantibiotics. Chemical Communications, 2014, 50, 9298-9301.	2.2	55
23	Highly sensitive hydrazine chemical sensor based on ZnO nanorods field-effect transistor. Chemical Communications, 2014, 50, 1890.	2.2	102
24	Microwave-assisted nonaqueous sol-gel synthesis of highly crystalline magnetite nanocrystals. Materials Chemistry and Physics, 2014, 148, 117-124.	2.0	26
25	Photocatalytic degradation of methyl orange dye by ZnO nanoneedle under UV irradiation. Materials Letters, 2014, 136, 171-174.	1.3	95
26	Self-assembled growth of vertically aligned ZnO nanorods for light sensing applications. Materials Letters, 2014, 137, 45-48.	1.3	34
27	A surface functionalized nanoporous titania integrated microfluidic biochip. Nanoscale, 2014, 6, 13958-13969.	2.8	31
28	Glucose-assisted synthesis of Cu ₂ O shuriken-like nanostructures and their application as nonenzymatic glucose biosensors. Sensors and Actuators B: Chemical, 2014, 203, 471-476.	4.0	98
29	Microgravimetric Thermodynamic Modeling for Optimization of Chemical Sensing Nanomaterials. Analytical Chemistry, 2014, 86, 4178-4187.	3.2	66
30	Porous ZnO and ZnO@NiO composite nano/microspheres: synthesis, catalytic and biosensor properties. RSC Advances, 2014, 4, 51098-51104.	1.7	14
31	Synthesis of one-dimensional porous Co ₃ O ₄ nanobelts and their ethanol gas sensing properties. Materials Research Bulletin, 2014, 59, 69-76.	2.7	18
32	Development of Highly Sensitive and Selective Cholesterol Biosensor Based on Cholesterol Oxidase Co-Immobilized with γ -Fe ₂ O ₃ Micro-Pine Shaped Hierarchical Structures. Electrochimica Acta, 2014, 135, 396-403.	2.6	44
33	Effect of ZnO nanoparticles aggregation on the toxicity in RAW 264.7 murine macrophage. Journal of Hazardous Materials, 2014, 270, 110-117.	6.5	79
34	A robust enzymeless glucose sensor based on CuO nanoseed modified electrodes. Dalton Transactions, 2015, 44, 12488-12492.	1.6	50
35	Crystallization behavior of 3D-structured OMS-2 under hydrothermal conditions. CrystEngComm, 2015, 17, 3636-3644.	1.3	11
36	Synthesis of magnetite films on copper substrate by hydrothermal method. Surface Engineering, 2015, 31, 481-485.	1.1	2
37	A Green Strategy to Prepare Metal Oxide Superstructure from Metal-Organic Frameworks. Scientific Reports, 2015, 5, 8401.	1.6	54

#	ARTICLE	IF	CITATIONS
38	Enhanced anticancer potency using an acid-responsive ZnO-incorporated liposomal drug-delivery system. <i>Nanoscale</i> , 2015, 7, 4088-4096.	2.8	63
39	Multi-synergetic ZnO platform for high performance cancer therapy. <i>Chemical Communications</i> , 2015, 51, 2585-2588.	2.2	16
40	Facile synthesis of CeO ₂ -decorated Ni(OH) ₂ -hierarchical composites for enhanced electrocatalytic sensing of H ₂ O ₂ . <i>RSC Advances</i> , 2015, 5, 24101-24109.	1.7	15
41	ZnO nanostructures in enzyme biosensors. <i>Science China Materials</i> , 2015, 58, 60-76.	3.5	70
42	A comprehensive biosensor integrated with a ZnO nanorod FET array for selective detection of glucose, cholesterol and urea. <i>Chemical Communications</i> , 2015, 51, 11968-11971.	2.2	89
43	Size-controlled synthesis of SnO ₂ quantum dots and their gas-sensing performance. <i>Applied Surface Science</i> , 2015, 346, 256-262.	3.1	56
44	3-D periodic mesoporous nickel oxide for nonenzymatic uric acid sensors with improved sensitivity. <i>Applied Surface Science</i> , 2015, 359, 221-226.	3.1	16
45	Highly sensitive ethanol chemical sensor based on nanostructured SnO ₂ doped ZnO modified glassy carbon electrode. <i>Chemical Physics Letters</i> , 2015, 639, 238-242.	1.2	22
46	Noble metal@metal oxide semiconductor core@shell nano-architectures as a new platform for gas sensor applications. <i>RSC Advances</i> , 2015, 5, 76229-76248.	1.7	185
47	Hierarchical Assembly of γ -Fe ₂ O ₃ Nanosheets on SnO ₂ Hollow Nanospheres with Enhanced Ethanol Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19119-19125.	4.0	91
48	Fabrication of highly sensitive uric acid biosensor based on directly grown ZnO nanosheets on electrode surface. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 146-151.	4.0	112
49	Large Scale Synthesis of ZnO Nanostructures of Different Morphologies through Solvent-free Mechanochemical Synthesis and their Application in Photocatalytic Dye Degradation. <i>American Journal of Engineering and Applied Sciences</i> , 2016, 9, 41-52.	0.3	10
50	Electrochemical Sensor for Detection of Glucose Based on Ni@Pt Core@shell Nanoparticles Supported on Carbon. <i>Electroanalysis</i> , 2016, 28, 671-678.	1.5	9
51	Zinc oxide thin film based nonenzymatic electrochemical sensor for the detection of trace level catechol. <i>RSC Advances</i> , 2016, 6, 64611-64616.	1.7	24
52	Reduced graphene oxide/ZnO nanocomposite for application in chemical gas sensors. <i>RSC Advances</i> , 2016, 6, 34225-34232.	1.7	101
53	Hierarchically assembled ZnO nanosheets microspheres for enhanced glucose sensing performances. <i>Ceramics International</i> , 2016, 42, 13464-13469.	2.3	17
54	Highly sensitive amperometric hydrazine sensor based on novel γ -Fe ₂ O ₃ /crosslinked polyaniline nanocomposite modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 573-582.	4.0	96
55	Cyano-bridged coordination polymer hydrogel-derived Sn ^{II} /Fe binary oxide nano hybrids with structural diversity: from 3D, 2D, to 2D/1D and enhanced lithium-storage performance. <i>Nanoscale</i> , 2016, 8, 9828-9836.	2.8	35

#	ARTICLE	IF	CITATIONS
56	Hydrothermal synthesis and photoluminescence properties of Fe ₃ O ₄ /ZnO heterostructures. <i>Materials Research Innovations</i> , 2016, 20, 165-169.	1.0	3
57	pH-Sensitive ZnO Quantum Dots@Doxorubicin Nanoparticles for Lung Cancer Targeted Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22442-22450.	4.0	259
58	High-performance glucose biosensor based on chitosan-glucose oxidase immobilized polypyrrole/Nafion/functionalized multi-walled carbon nanotubes bio-nanohybrid film. <i>Journal of Colloid and Interface Science</i> , 2016, 482, 39-47.	5.0	116
59	Flexible contact stamp for electrical conductivity measurements of a soft matter. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 92, 224-229.	2.5	2
60	Biomedical Applications of Functionalized ZnO Nanomaterials: from Biosensors to Bioimaging. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500494.	1.9	138
61	Covalent immobilization of glucose oxidase on amino MOFs via post-synthetic modification. <i>RSC Advances</i> , 2016, 6, 108051-108055.	1.7	39
62	Coral-like MoS ₂ /Cu ₂ O Porous Nanohybrid with Dual Electro-catalyst Performances. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600658.	1.9	34
63	Synthesis of flower-like CuO hierarchical nanostructures as an electrochemical platform for glucose sensing. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2419-2426.	1.2	11
64	Rapid methyl orange degradation using porous ZnO spheres photocatalyst. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 161, 312-317.	1.7	56
65	Ammonium ion detection in solution using vertically grown ZnO nanorod based field-effect transistor. <i>RSC Advances</i> , 2016, 6, 54836-54840.	1.7	60
66	Two-dimensional layered nanomaterials for gas-sensing applications. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 433-451.	3.0	306
67	Phase and composition selective superior cholesterol sensing performance of ZnO@ZnS nano-heterostructure and ZnS nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 14-24.	4.0	21
68	Electrochemical biosensors based on nanofibres for cardiac biomarker detection: A comprehensive review. <i>Biosensors and Bioelectronics</i> , 2016, 78, 513-523.	5.3	94
69	An On-Column Enzyme Mediated Fluorescence-Amplification Method for Plasma Total Cholesterol Measurement by Capillary Electrophoresis with LIF Detection. <i>Chromatographia</i> , 2016, 79, 319-325.	0.7	11
70	Ordered La _{0.7} Sr _{0.3} MnO ₃ nanohole arrays fabricated on a nanoporous alumina template by pulsed laser ablation. <i>Nanotechnology</i> , 2016, 27, 125303.	1.3	1
71	One-pot synthesis of mesoporous spherical SnO ₂ @graphene for high-sensitivity formaldehyde gas sensors. <i>RSC Advances</i> , 2016, 6, 25198-25202.	1.7	53
72	Mesoporous ZnO nanoclusters as an ultra-active photocatalyst. <i>Ceramics International</i> , 2016, 42, 9519-9526.	2.3	46
73	Facile synthesis of CuO micro-sheets over Cu foil in oxalic acid solution and their sensing properties towards n-butanol. <i>Journal of Materials Chemistry C</i> , 2016, 4, 985-990.	2.7	14

#	ARTICLE	IF	CITATIONS
74	Synthesis of porous NiO/CeO ₂ hybrid nanoflake arrays as a platform for electrochemical biosensing. <i>Nanoscale</i> , 2016, 8, 770-774.	2.8	41
75	Template-free synthesis of hierarchical ZnFe ₂ O ₄ yolk-shell microspheres for high-sensitivity acetone sensors. <i>Nanoscale</i> , 2016, 8, 5446-5453.	2.8	125
76	Chemi-resistive response of rutile titania nano-particles towards isopropanol and formaldehyde: a correlation with the volatility and chemical reactivity of vapors. <i>Materials Research Express</i> , 2017, 4, 015503.	0.8	8
77	pH-Responsive ZnO Nanocluster for Lung Cancer Chemotherapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5739-5747.	4.0	40
78	Fabrication of a non-enzymatic glucose sensor field-effect transistor based on vertically-oriented ZnO nanorods modified with Fe ₂ O ₃ . <i>Electrochemistry Communications</i> , 2017, 77, 107-111.	2.3	94
79	Development of highly-stable binder-free chemical sensor electrodes for p-nitroaniline detection. <i>Journal of Colloid and Interface Science</i> , 2017, 494, 300-306.	5.0	28
80	Polyol-Mediated Synthesis, Microstructure and Magnetic Properties of Hierarchical Sphere, Rod, and Polyhedral γ -Fe ₂ O ₃ Oxide Particles. <i>Journal of Electronic Materials</i> , 2017, 46, 3615-3621.	1.0	8
81	High performance metal oxide based sensing device using an electrode with a solid/liquid/air triphase interface. <i>Nano Research</i> , 2017, 10, 2998-3004.	5.8	10
82	Solution Process Synthesis of High Aspect Ratio ZnO Nanorods on Electrode Surface for Sensitive Electrochemical Detection of Uric Acid. <i>Scientific Reports</i> , 2017, 7, 46475.	1.6	64
83	Perovskite-type calcium titanate nanoparticles as novel matrix for designing sensitive electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2017, 96, 220-226.	5.3	45
84	Glucose Biosensor Based on Mesoporous Pt Nanotubes. <i>Journal of the Electrochemical Society</i> , 2017, 164, B230-B233.	1.3	8
85	Electrically Transduced Sensors Based on Nanomaterials (2012-2016). <i>Analytical Chemistry</i> , 2017, 89, 249-275.	3.2	71
86	Two-dimensional ytterbium oxide nanodisks based biosensor for selective detection of urea. <i>Biosensors and Bioelectronics</i> , 2017, 98, 254-260.	5.3	59
87	In situ synthesis of cylindrical spongy polypyrrole doped protonated graphitic carbon nitride for cholesterol sensing application. <i>Biosensors and Bioelectronics</i> , 2017, 94, 686-693.	5.3	87
88	Thermally Controlled Bonding of Adenine to Cerium Oxide: Effect of Substrate Stoichiometry, Morphology, Composition, and Molecular Deposition Technique. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25118-25131.	1.5	7
89	Nozzle-jet printed flexible field-effect transistor biosensor for high performance glucose detection. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 188-196.	5.0	42
90	Highly Efficient Non-Enzymatic Glucose Sensor Based on CuO Modified Vertically-Grown ZnO Nanorods on Electrode. <i>Scientific Reports</i> , 2017, 7, 5715.	1.6	234
91	Controlled growth and DNA sensing property of HKUST-1@GrO nanocomposites. <i>Materials Letters</i> , 2017, 209, 142-145.	1.3	2

#	ARTICLE	IF	CITATIONS
92	Porous Au/ZnO nanoparticles synthesised through a metal organic framework (MOF) route for enhanced acetone gas-sensing. RSC Advances, 2017, 7, 38444-38451.	1.7	56
93	Surface Complexed ZnO Quantum Dot for White Light Emission with Controllable Chromaticity and Color Temperature. Langmuir, 2017, 33, 14627-14633.	1.6	24
94	Highly Sensitive, Fast-Responding, and Stable Photodetector Based on ALD-Developed Monolayer TiO ₂ . IEEE Nanotechnology Magazine, 2017, 16, 880-887.	1.1	13
95	Facile One Pot Synthesis of CuO Nanostructures and Their Effect on Nonenzymatic Glucose Biosensing. Electroanalysis, 2017, 8, 27-35.	1.5	32
96	Ceria Nanostructures as Biosensing Platform for Glucose Sensing. ECS Transactions, 2017, 80, 1269-1275.	0.3	0
97	Development of a Sensitive Electrochemical Enzymatic Reaction-Based Cholesterol Biosensor Using Nano-Sized Carbon Interdigitated Electrodes Decorated with Gold Nanoparticles. Sensors, 2017, 17, 2128.	2.1	48
98	Fabrication of a solution-gated transistor based on valinomycin modified iron oxide nanoparticles decorated zinc oxide nanorods for potassium detection. Journal of Colloid and Interface Science, 2018, 518, 277-283.	5.0	34
99	Highly selective FET-type glucose sensor based on shape-controlled palladium nanoflower-decorated graphene. Sensors and Actuators B: Chemical, 2018, 264, 216-223.	4.0	37
100	Rapid detection of nutrients with electronic sensors: a review. Environmental Science: Nano, 2018, 5, 837-862.	2.2	41
101	Incorporation of carbon nanotube and graphene in ZnO nanorods-based hydrogen gas sensor. Ceramics International, 2018, 44, 12308-12314.	2.3	30
102	Synthesis of manganese oxide nanorods and its application for potassium ion sensing in water. Journal of Colloid and Interface Science, 2018, 516, 364-370.	5.0	28
103	Fabrication of sensitive non-enzymatic nitrite sensor using silver-reduced graphene oxide nanocomposite. Journal of Colloid and Interface Science, 2018, 516, 67-75.	5.0	59
104	Microwave-assisted synthesis of graphene modified CuO nanoparticles for voltammetric enzyme-free sensing of glucose at biological pH values. Mikrochimica Acta, 2018, 185, 57.	2.5	56
105	A Combined Electrochemical-Microfluidic Strategy for the Microscale-Sized Selective Modification of Transparent Conductive Oxides. Advanced Materials Interfaces, 2018, 5, 1701222.	1.9	1
106	Cuprous oxide (Cu ₂ O) crystals with tailored architectures: A comprehensive review on synthesis, fundamental properties, functional modifications and applications. Progress in Materials Science, 2018, 96, 111-173.	16.0	183
107	Preparation of a Highly Conductive Seed Layer for Calcium Sensor Fabrication with Enhanced Sensing Performance. ACS Sensors, 2018, 3, 772-778.	4.0	39
108	Fully nozzle-jet printed non-enzymatic electrode for biosensing application. Journal of Colloid and Interface Science, 2018, 512, 480-488.	5.0	36
109	Ultrasensitive and low detection limit of toluene gas sensor based on SnO ₂ -decorated NiO nanostructure. Sensors and Actuators B: Chemical, 2018, 255, 3505-3515.	4.0	92

#	ARTICLE	IF	CITATIONS
110	Nonenzymatic flexible field-effect transistor based glucose sensor fabricated using NiO quantum dots modified ZnO nanorods. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 21-28.	5.0	99
111	Graphene as biomedical sensing element: State of art review and potential engineering applications. <i>Composites Part B: Engineering</i> , 2018, 134, 193-206.	5.9	113
112	Enhancing the anti-gastric cancer activity of curcumin with biocompatible and pH sensitive PMMA-AA/ZnO nanoparticles. <i>Materials Science and Engineering C</i> , 2018, 82, 182-189.	3.8	54
113	Deposition of nanomaterials: A crucial step in biosensor fabrication. <i>Materials Today Communications</i> , 2018, 17, 289-321.	0.9	140
114	Metal oxide modified ZnO nanomaterials for biosensor applications. <i>Nano Convergence</i> , 2018, 5, 27.	6.3	119
115	Pentacene Coated Atop of Ultrathin InN Gas Sensor Device for the Selective Sensing of Ammonia Gas for Liver Malfunction Application. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q3208-Q3214.	0.9	4
116	Highly Sensitive Ethanol Chemical Sensor Based on Novel Ag-Doped Mesoporous γ -Fe ₂ O ₃ Prepared by Modified Sol-Gel Process. <i>Nanoscale Research Letters</i> , 2018, 13, 157.	3.1	26
117	Nanocubic magnesium oxide: Towards hydrazine sensing. <i>Vacuum</i> , 2018, 155, 682-688.	1.6	14
118	MOFs-derived porous nanomaterials for gas sensing. <i>Polyhedron</i> , 2018, 152, 155-163.	1.0	67
119	Ratiometric fluorescence sensor based on cholesterol oxidase-functionalized mesoporous silica nanoparticle@ZIF-8 core-shell nanocomposites for detection of cholesterol. <i>Talanta</i> , 2018, 188, 708-713.	2.9	50
120	Enhanced sensing performance and mechanism of CuO nanoparticle-loaded ZnO nanowires: Comparison with ZnO-CuO core-shell nanowires. <i>Applied Surface Science</i> , 2018, 459, 630-638.	3.1	40
121	Sonochemical One-Step Synthesis of Polymer-Capped Metal Oxide Nanocolloids: Antibacterial Activity and Cytotoxicity. <i>ACS Omega</i> , 2019, 4, 13631-13639.	1.6	15
122	Efficient photo catalysts based on silver doped ZnO nanorods for the photo degradation of methyl orange. <i>Ceramics International</i> , 2019, 45, 23289-23297.	2.3	46
123	Homophase structure for promoting electron transfer in gas-sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126940.	4.0	4
125	Recent advances in functionalized MnO ₂ nanosheets for biosensing and biomedicine applications. <i>Nanoscale Horizons</i> , 2019, 4, 321-338.	4.1	185
126	One-step synthesis and decoration of nickel oxide nanosheets with gold nanoparticles by reduction method for hydrazine sensing application. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 139-147.	4.0	38
127	Electrochemical activity of the polycrystalline cerium oxide films for hydrogen peroxide detection. <i>Applied Surface Science</i> , 2019, 488, 351-359.	3.1	30
128	Facile synthesis of ZnO QDs@GO-CS hydrogel for synergetic antibacterial applications and enhanced wound healing. <i>Chemical Engineering Journal</i> , 2019, 378, 122043.	6.6	98

#	ARTICLE	IF	CITATIONS
129	In situ laser-induced synthesis of copper-silver microcomposite for enzyme-free d-glucose and l-alanine sensing. <i>Applied Surface Science</i> , 2019, 488, 531-536.	3.1	26
130	Recent progress and perspectives of gas sensors based on vertically oriented ZnO nanomaterials. <i>Advances in Colloid and Interface Science</i> , 2019, 270, 1-27.	7.0	141
131	Nanomedicine in Gastric Cancer. <i>Current Clinical Pathology</i> , 2019, , 213-247.	0.0	0
132	In situ fabrication of Ni(OH) ₂ nanoflakes/K-Ti-O nanowires on NiTi foil for high performance non-enzymatic hydrogen peroxide sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 107-114.	1.9	5
133	Highly-sensitivity acetone sensors based on spinel-type oxide (NiFe ₂ O ₄) through optimization of porous structure. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 266-274.	4.0	94
134	Nanomaterials as an Immobilizing Platform for Enzymatic Glucose Biosensors. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 229-251.	0.3	1
135	Discrimination of 1- and 2-Propanol by Using the Transient Current Change of a Semiconducting ZnFe ₂ O ₄ Chemiresistor. <i>ChemPlusChem</i> , 2019, 84, 387-391.	1.3	1
136	Fabrication of an ultra-sensitive hydrazine sensor based on nano-chips shaped nickel hydroxide modified electrodes. <i>Microsystem Technologies</i> , 2022, 28, 279-286.	1.2	5
137	Three-Dimensional CeO ₂ Woodpile Nanostructures To Enhance Performance of Enzymatic Glucose Biosensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1821-1828.	4.0	24
138	Electrochemical amperometric biosensor applications of nanostructured metal oxides: a review. <i>Materials Research Express</i> , 2019, 6, 042003.	0.8	37
139	Electrically-Transduced Chemical Sensors Based on Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , 2019, 119, 478-598.	23.0	521
140	Flexible and stretchable metal oxide gas sensors for healthcare. <i>Science China Technological Sciences</i> , 2019, 62, 209-223.	2.0	44
141	Serological and molecular rapid diagnostic tests for Toxoplasma infection in humans and animals. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2020, 39, 19-30.	1.3	24
142	Metabolic Syndrome—An Emerging Constellation of Risk Factors: Electrochemical Detection Strategies. <i>Sensors</i> , 2020, 20, 103.	2.1	6
143	Improved Sensing of Capsaicin with TiO ₂ Nanoparticles Modified Epoxy Graphite Electrode. <i>Electroanalysis</i> , 2020, 32, 230-237.	1.5	17
144	Multiwalled carbon nanotubes coated with cobalt(II) sulfide nanoparticles for electrochemical sensing of glucose via direct electron transfer to glucose oxidase. <i>Mikrochimica Acta</i> , 2020, 187, 80.	2.5	42
145	Anti-biofouling NH ₃ gas sensor based on reentrant thorny ZnO/graphene hybrid nanowalls. <i>Microsystems and Nanoengineering</i> , 2020, 6, 41.	3.4	19
146	From Passive Inorganic Oxides to Active Matters of Micro/Nanomotors. <i>Advanced Functional Materials</i> , 2020, 30, 2003195.	7.8	33

#	ARTICLE	IF	CITATIONS
147	Review on Sensing Applications of Perovskite Nanomaterials. <i>Chemosensors</i> , 2020, 8, 55.	1.8	105
148	Core-shell Ag-ZnO/Curcumin nanocomposite having optically active, thermally stable, hydrophilic surfaces for self cleaning applications. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	5
149	3D ordered porous SnO ₂ with a controllable pore diameter for enhanced formaldehyde sensing performance. <i>Functional Materials Letters</i> , 2020, 13, 2051044.	0.7	2
150	Multifunctional carbon nanotubes and their derived nano-constructs for enzyme immobilization – A paradigm shift in biocatalyst design. <i>Coordination Chemistry Reviews</i> , 2020, 422, 213475.	9.5	105
151	Laser-Induced Synthesis of Composite Materials Based on Iridium, Gold and Platinum for Non-Enzymatic Glucose Sensing. <i>Materials</i> , 2020, 13, 3359.	1.3	14
152	Smart Responsive Nanoformulation for Targeted Delivery of Active Compounds From Traditional Chinese Medicine. <i>Frontiers in Chemistry</i> , 2020, 8, 559159.	1.8	6
153	Printed paper-based (bio)sensors: Design, fabrication and applications. <i>Comprehensive Analytical Chemistry</i> , 2020, 89, 63-89.	0.7	2
154	Nanofibrous MgO composites: structures, properties, and applications. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 1522-1551.	0.6	6
155	Modulating physicochemical properties in Gd ³⁺ @Yb ₂ O ₃ nanospheres for efficient electrochemical monitoring of H ₂ O ₂ . <i>Materials Science and Engineering C</i> , 2020, 114, 111059.	3.8	10
156	Hydrothermally Synthesized Nickel Oxide Nanosheets for Non-Enzymatic Electrochemical Glucose Detection. <i>Journal of the Electrochemical Society</i> , 2020, 167, 107504.	1.3	56
157	On the alignment of ZnO nanowires by Langmuir-Blodgett technique for sensing application. <i>Applied Surface Science</i> , 2020, 528, 146959.	3.1	12
158	Light-addressable Electrodes for Dynamic and Flexible Addressing of Biological Systems and Electrochemical Reactions. <i>Sensors</i> , 2020, 20, 1680.	2.1	8
159	Recent developments in nanostructured metal oxide-based electrochemical sensors. , 2020, , 123-134.		2
160	The role of anions and cations in the gas sensing mechanisms of graphene decorated with lead halide perovskite nanocrystals. <i>Chemical Communications</i> , 2020, 56, 8956-8959.	2.2	23
161	Nanoscale dynamic chemical, biological sensor material designs for control monitoring and early detection of advanced diseases. <i>Materials Today Bio</i> , 2020, 5, 100044.	2.6	18
162	Nano-donuts shaped nickel oxide nanostructures for sensitive non-enzymatic electrochemical detection of glucose. <i>Microsystem Technologies</i> , 2022, 28, 313-318.	1.2	7
163	Xylene gas sensing properties of hydrothermal synthesized SnO ₂ -Co ₃ O ₄ microstructure. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127780.	4.0	66
164	Nanostructured Metal-Oxide Electrode Materials for Water Purification. <i>Engineering Materials</i> , 2020, , .	0.3	1

#	ARTICLE	IF	CITATIONS
165	Ni-Doped ZrO ₂ nanoparticles decorated MW-CNT nanocomposite for the highly sensitive electrochemical detection of 5-amino salicylic acid. <i>Analyst</i> , The, 2021, 146, 664-673.	1.7	20
166	Effect of composition and calcination on the enzymeless glucose detection of Cu-Ag bimetallic nanocomposites. <i>Materials Today Communications</i> , 2021, 26, 101815.	0.9	8
167	Drug Delivery Towards Cancer. <i>Nanotechnology in the Life Sciences</i> , 2021, , 225-240.	0.4	0
168	A review on application of ZnO nano particles as biosensors. <i>Journal of Physics: Conference Series</i> , 2021, 1797, 012044.	0.3	2
169	Influence of concentration and annealing temperature on spin-coated metal oxide thin films for optoelectronic devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10028-10048.	1.1	7
170	Study of induced amplification of antibacterial activity of ciprofloxacin on coupling with ZnO nanoparticles (ZnONp). <i>Materials Today: Proceedings</i> , 2022, 49, 632-637.	0.9	2
171	Hierarchical assembly of SnO ₂ nanorod on spindle-like γ -Fe ₂ O ₃ for enhanced acetone gas-sensing performance. <i>Ceramics International</i> , 2021, 47, 12181-12188.	2.3	16
172	Engineered CuO Nanofibers with Boosted Non-Enzymatic Glucose Sensing Performance. <i>Journal of the Electrochemical Society</i> , 2021, 168, 067507.	1.3	37
173	Rapid phytochemical microwave-assisted synthesis of zinc oxide nano flakes with excellent electrocatalytic activity for non-enzymatic electrochemical sensing of uric acid. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 21406-21424.	1.1	7
174	Emerging nanomaterials for improved biosensing. <i>Measurement: Sensors</i> , 2021, 16, 100050.	1.3	41
175	Copper Oxide Decorated Zinc Oxide Nanostructures for the Production of a Non-Enzymatic Glucose Sensor. <i>Coatings</i> , 2021, 11, 936.	1.2	11
176	Progressions in chemical and biological analytes sensing technology based on nanostructured materials: A comprehensive review. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 271, 115307.	1.7	7
177	Electrochemical immunosensor using artificial enzyme-induced metallization for the ultra-sensitive detection of alpha fetoprotein. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130258.	4.0	19
178	A highly sensitive uric acid biosensor based on vertically arranged ZnO nanorods on a ZnO nanoparticle-seeded electrode. <i>New Journal of Chemistry</i> , 2021, 45, 18863-18870.	1.4	16
179	Nanotechnology-Enabled Management of Chemical, Biological, Radiological, and Nuclear Threats. , 2019, , 117-153.		2
180	Glucose Sensors Based on Core@Shell Magnetic Nanomaterials and Their Application in Diabetes Management: A Review. <i>Current Pharmaceutical Design</i> , 2015, 21, 5359-5368.	0.9	9
181	Field-Effect Transistors Based on Organic and Carbon-Based Materials for Chemical and Biological Sensors. <i>Current Organic Chemistry</i> , 2015, 19, 1176-1190.	0.9	4
182	ZnO nanonails for photocatalytic degradation of crystal violet dye under UV irradiation. <i>AIMS Materials Science</i> , 2017, 4, 267-276.	0.7	14

#	ARTICLE	IF	CITATIONS
183	Design, preparation, and characterization of CS/PVA/SA hydrogels modified with mesoporous Ag ₂ O/SiO ₂ and curcumin nanoparticles for green, biocompatible, and antibacterial biopolymer film. RSC Advances, 2021, 11, 32775-32791.	1.7	25
184	Recent advances in carbon nanotubes-based biocatalysts and their applications. Advances in Colloid and Interface Science, 2021, 297, 102542.	7.0	32
185	Size- and Shape-Controlled ZnO Nanostructures for Multifunctional Devices. Advances in Materials Science and Engineering, 2016, , 39-94.	0.4	1
187	Application of Metal Oxides Electrodes. Engineering Materials, 2020, , 127-149.	0.3	0
188	Effect of the Substrate Crystallinity on Morphological and Magnetic Properties of Fe ₇₀ Pd ₃₀ Nanoparticles Obtained by the Solid-State Dewetting. Sensors, 2021, 21, 7420.	2.1	4
189	Advanced Binder-Free Electrode Based on CuCo ₂ O ₄ Nanowires Coated with Polypyrrole Layer as a High-Performance Nonenzymatic Glucose Sensing Platform. Coatings, 2021, 11, 1462.	1.2	1
190	Effect of light activation on chemical gas sensors based on aligned nanowires. , 2020, , .		0
191	Exploring the potential of metal oxides for biomedical applications. , 2022, , 183-203.		2
192	Biomedical application of ZnO nanoscale materials. , 2022, , 407-435.		2
193	Urchin-like PtNPs@Bi ₂ S ₃ : synthesis and application in electrochemical biosensor. Analyst, The, 2022, 147, 430-435.	1.7	11
194	Structurally identified curcumin-Ag/ZnO nanocomposite having antibacterial effect: an investigation. International Nano Letters, 0, , 1.	2.3	1
195	Moderate molecular recognitions on ZnO <i>m</i> -plane and their selective capture/release of bio-related phosphoric acids. Nanoscale Advances, 2022, 4, 1649-1658.	2.2	1
196	Cytotoxicity of zinc oxide nanoparticles coupled with folic acid and polyethylene glycol. Digest Journal of Nanomaterials and Biostructures, 2022, 17, 73-79.	0.3	4
197	Nanomaterial-Based Biosensors using Field-Effect Transistors: A Review. Journal of Electronic Materials, 2022, 51, 1950-1973.	1.0	27
199	Reverse Electrochemical Sensing of FLT3-ITD Mutations in Acute Myeloid Leukemia Using Gold Sputtered ZnO-Nanorod Configured DNA Biosensors. Biosensors, 2022, 12, 170.	2.3	2
200	High sensitivity and low detection limit of acetone sensor based on Ru-doped Co ₃ O ₄ flower-like hollow microspheres. Sensors and Actuators B: Chemical, 2022, 363, 131839.	4.0	26
202	Electrochemical detection of acute renal disease biomarker by Galinstan nanoparticles interfaced to bilayer polymeric structured dirhenium heptoxide film. Bioelectrochemistry, 2022, 147, 108194.	2.4	0
203	Argentivorous molecules with chromophores: dependence of their fluorescence intensities on the distance between a donor and an acceptor. Dalton Transactions, 0, , .	1.6	0

#	ARTICLE	IF	CITATIONS
204	Electrospun N-halamine/ZnO-based platform eradicates bacteria through multimodal antimicrobial mechanism of action. <i>Rare Metals</i> , 2023, 42, 222-233.	3.6	6
205	Biosensor-based therapy powered by synthetic biology. <i>Smart Materials in Medicine</i> , 2023, 4, 212-224.	3.7	6
206	Zinc oxide based gas sensors and their derivatives: a critical review. <i>Journal of Materials Chemistry C</i> , 2023, 11, 3906-3925.	2.7	18
207	Functional nanomaterials in flexible gas sensors: recent progress and future prospects. <i>Materials Today Chemistry</i> , 2023, 29, 101428.	1.7	18
208	Perovskite-based electrochemical sensing of ion and gas molecules: An overview. , 2023, , 549-575.		0
209	Perovskite metal oxide-based composite materials: Potential candidates for electronics and optoelectronics. , 2023, , 203-229.		0
213	Graphene-based Nanocomposites for Sensing. , 2023, , 47-79.		0
216	Metal Oxide Nanostructure for Biomedical Applications. , 2024, , 43-69.		0
223	Metal oxide and their sensing applications. , 2024, , 155-176.		0
224	Organometallic and biomass-derived nanostructured materials for biosensing applications. , 2024, , 57-75.		0