

# Niravkumar Joshi

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

2,500  
citations

279798

23  
h-index

254184

43  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2663  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on chemiresistive room temperature gas sensors based on metal oxide nanostructures, graphene and 2D transition metal dichalcogenides. <i>Mikrochimica Acta</i> , 2018, 185, 213.	5.0	502
2	Yolk-shelled ZnCo <sub>2</sub> O <sub>4</sub> microspheres: Surface properties and gas sensing application. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 906-915.	7.8	197
3	Magnetic nanoparticles in biomedical applications: A review. <i>Applied Surface Science Advances</i> , 2021, 6, 100163.	6.8	141
4	Au@TiO <sub>2</sub> -Loaded Cubic g-C <sub>3</sub> N <sub>4</sub> Nanohybrids for Photocatalytic and Volatile Organic Amine Sensing Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 34087-34097.	8.0	132
5	One-step approach for preparing ozone gas sensors based on hierarchical NiCo <sub>2</sub> O <sub>4</sub> structures. <i>RSC Advances</i> , 2016, 6, 92655-92662.	3.6	114
6	UV-assisted chemiresistors made with gold-modified ZnO nanorods to detect ozone gas at room temperature. <i>Mikrochimica Acta</i> , 2019, 186, 418.	5.0	109
7	H <sub>2</sub> S sensing using in situ photo-polymerized polyaniline@silver nanocomposite films on flexible substrates. <i>Organic Electronics</i> , 2014, 15, 71-81.	2.6	102
8	Flexible NO gas sensor based on conducting polymer poly[ N -9-heptadecanyl-2,7-carbazole-alt-5,5-(4,7-di-2-thienyl-2,1,3-benzothiadiazole)] (PCDTBT). <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 734-745.	4.0	94
9	Flexible H <sub>2</sub> S sensor based on gold modified polycarbazole films. <i>Sensors and Actuators B: Chemical</i> , 2014, 200, 227-234.	7.8	78
10	Photo-induced synthesis of polypyrrole-silver nanocomposite films on N-(3-trimethoxysilylpropyl)pyrrole-modified biaxially oriented polyethylene terephthalate flexible substrates. <i>RSC Advances</i> , 2013, 3, 5506.	3.6	76
11	NO <sub>2</sub> gas sensors based on CVD tungsten diselenide monolayer. <i>Applied Surface Science</i> , 2020, 529, 147110.	6.1	61
12	Green Synthesis and Applications of ZnO and TiO <sub>2</sub> Nanostructures. <i>Molecules</i> , 2021, 26, 2236.	3.8	60
13	Room temperature detection of H <sub>2</sub> S by flexible gold@cobalt phthalocyanine heterojunction thin films. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 653-662.	7.8	59
14	One step synthesis of highly ordered free standing flexible polypyrrole-silver nanocomposite films at air-water interface by photopolymerization. <i>RSC Advances</i> , 2013, 3, 13329.	3.6	56
15	Electrochemical investigation of free-standing polypyrrole@silver nanocomposite films: a substrate free electrode material for supercapacitors. <i>RSC Advances</i> , 2013, 3, 24567.	3.6	55
16	Advances in the designs and mechanisms of MoO <sub>3</sub> nanostructures for gas sensors: a holistic review. <i>Materials Advances</i> , 2021, 2, 4190-4227.	5.4	52
17	AC phase sensing of graphene FETs for chemical vapors with fast recovery and minimal baseline drift. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 94-102.	7.8	51
18	Wide-Angle X-ray Diffraction (WXR). , 2017, , 313-337.		50

#	ARTICLE	IF	CITATIONS
19	Insights into nano-heterostructured materials for gas sensing: a review. Multifunctional Materials, 2021, 4, 032002.	3.7	40
20	Bending stress induced improved chemiresistive gas sensing characteristics of flexible cobalt-phthalocyanine thin films. Applied Physics Letters, 2013, 102, .	3.3	38
21	Dew Point Measurement Using a Carbon-Based Capacitive Sensor with Active Temperature Control. ACS Applied Materials & Interfaces, 2019, 11, 1699-1705.	8.0	37
22	Cellulose acetate-MoS <sub>2</sub> nanopetal hybrid: A highly sensitive and selective electrochemical aptasensor of Troponin I for the early diagnosis of Acute Myocardial Infarction. Journal of the Taiwan Institute of Chemical Engineers, 2021, 118, 245-253.	5.3	32
23	All-Carbon Based Flexible Humidity Sensor. Journal of Nanoscience and Nanotechnology, 2019, 19, 5310-5316.	0.9	27
24	Combining 3D printing and screen-printing in miniaturized, disposable sensors with carbon paste electrodes. Journal of Materials Chemistry C, 2021, 9, 5633-5642.	5.5	25
25	Functional graphitic carbon (IV) nitride: A versatile sensing material. Coordination Chemistry Reviews, 2022, 466, 214611.	18.8	22
26	Determination of p53 biomarker using an electrochemical immunoassay based on layer-by-layer films with NiFe <sub>2</sub> O <sub>4</sub> nanoparticles. Mikrochimica Acta, 2020, 187, 619.	5.0	21
27	Synthesis and dielectric behavior of nano-scale barium titanate. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 83-90.	2.9	20
28	Highly sensitive and selective acute myocardial infarction detection using aptamer- $\epsilon$ -tethered MoS <sub>2</sub> nanoflower and screen-printed electrodes. Biotechnology and Applied Biochemistry, 2020, , .	3.1	20
29	Nucleic Acid-Based Nanobiosensor (NAB) Used for Salmonella Detection in Foods: A Systematic Review. Nanomaterials, 2022, 12, 821.	4.1	20
30	<i>A Special Section on</i> Applications of 2D/3D Materials in Sensing and Photocatalysis. Journal of Nanoscience and Nanotechnology, 2019, 19, 5052-5053.	0.9	18
31	Synthesis and Characterization of Nano-Barium Titanate Prepared by Hydrothermal Process. Integrated Ferroelectrics, 2010, 115, 142-148.	0.7	17
32	DIELECTRIC BEHAVIOR OF NANO BARIUM TITANATE FILLED POLYMERIC COMPOSITES. International Journal of Modern Physics Conference Series, 2013, 22, 1-10.	0.7	14
33	Selective sensing of chemical vapors using phase spectra detection on CVD graphene fet. , 2018, , .		14
34	Graphene-Containing Microfluidic and Chip-Based Sensor Devices for Biomolecules. , 2019, , 321-336.		14
35	3D nanoporous hybrid nanoflower for enhanced non-faradaic redox-free electrochemical impedimetric biodetermination. Journal of the Taiwan Institute of Chemical Engineers, 2020, 116, 26-35.	5.3	14
36	Ozone sensing properties of nickel phthalocyanine:ZnO nanorod heterostructures. , 2016, , .		12

#	ARTICLE	IF	CITATIONS
37	Critical review and recent advances of 2D materials-Based gas sensors for food spoilage detection. Critical Reviews in Food Science and Nutrition, 2023, 63, 10536-10559.	10.3	11
38	MoS2 nanoflowers-activated peroxydisulfate oxidation for rapid and efficient water disinfection. Water Cycle, 2022, 3, 44-49.	4.0	10
39	Synthesis and Characterization of Polyurea Resin for Dielectric Coating Applications. Polymer-Plastics Technology and Engineering, 2016, 55, 1683-1692.	1.9	9
40	Nanosensors for monitoring indoor pollution in smart cities. , 2020, , 251-266.		9
41	Two-Dimensional Transition Metal Dichalcogenides for Gas Sensing Applications. Environmental Chemistry for A Sustainable World, 2020, , 131-155.	0.5	9
42	Label-Free AC Sensing by a Graphene Transistor for 100-ppb Formaldehyde in Air. , 2019, , .		7
43	Hybridized Graphitic Carbon Nitride (g-CN) as High Performance VOCs Sensor. Materials Horizons, 2020, , 285-302.	0.6	7
44	Analytical Detection of Pesticides, Pollutants, and Pharmaceutical Waste in the Environment. Environmental Chemistry for A Sustainable World, 2020, , 87-129.	0.5	6
45	Electrochemical sensors based on metal oxide-boron nitride nanocomposites in the detection of biomolecules and toxic chemicals. , 2021, , 293-311.		5
46	Smart materials for electrochemical flexible nanosensors: Advances and applications. , 2021, , 347-371.		5
47	Self-powered environmental monitoring gas sensors: Piezoelectric and triboelectric approaches. , 2021, , 463-489.		5
48	Temperature dependence dielectric properties of modified barium titanate-PVB composites. AIP Conference Proceedings, 2013, , .	0.4	4
49	Metal Oxides and Sulfide-Based Biosensors for Monitoring and Health Control. Environmental Chemistry for A Sustainable World, 2021, , 169-208.	0.5	3
50	Recent Advances on UV-Enhanced Oxide Nanostructures Gas Sensors. Materials Horizons, 2020, , 143-159.	0.6	3
51	Influence of Metal Doping on Electrical Properties of Nano Barium Titanate. Advanced Electrochemistry, 2014, 2, 3-8.	0.1	2
52	<i>A Special Issue</i> on Functional Nanomaterials for Sensor Applications. Sensor Letters, 2019, 17, 177-179.	0.4	1