

# 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	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
2	Nucleic Acid-Based Nanobiosensor (NAB) Used for Salmonella Detection in Foods: A Systematic Review. Nanomaterials, 2022, 12, 821.	4.1	20
3	MoS <sub>2</sub> nanoflowers-activated peroxydisulfate oxidation for rapid and efficient water disinfection. Water Cycle, 2022, 3, 44-49.	4.0	10
4	Functional graphitic carbon (IV) nitride: A versatile sensing material. Coordination Chemistry Reviews, 2022, 466, 214611.	18.8	22
5	Metal Oxides and Sulfide-Based Biosensors for Monitoring and Health Control. Environmental Chemistry for A Sustainable World, 2021, , 169-208.	0.5	3
6	Electrochemical sensors based on metal oxide-boron nitride nanocomposites in the detection of biomolecules and toxic chemicals. , 2021, , 293-311.		5
7	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
8	Smart materials for electrochemical flexible nanosensors: Advances and applications. , 2021, , 347-371.		5
9	Self-powered environmental monitoring gas sensors: Piezoelectric and triboelectric approaches. , 2021, , 463-489.		5
10	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
11	Green Synthesis and Applications of ZnO and TiO <sub>2</sub> Nanostructures. Molecules, 2021, 26, 2236.	3.8	60
12	Insights into nano-heterostructured materials for gas sensing: a review. Multifunctional Materials, 2021, 4, 032002.	3.7	40
13	Magnetic nanoparticles in biomedical applications: A review. Applied Surface Science Advances, 2021, 6, 100163.	6.8	141
14	Advances in the designs and mechanisms of MoO <sub>3</sub> nanostructures for gas sensors: a holistic review. Materials Advances, 2021, 2, 4190-4227.	5.4	52
15	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
16	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
17	Highly sensitive and selective acute myocardial infarction detection using aptamer-ethered MoS <sub>2</sub> nanoflower and screen-printed electrodes. Biotechnology and Applied Biochemistry, 2020, , .	3.1	20
18	NO <sub>2</sub> gas sensors based on CVD tungsten diselenide monolayer. Applied Surface Science, 2020, 529, 147110.	6.1	61

#	ARTICLE	IF	CITATIONS
19	Nanosensors for monitoring indoor pollution in smart cities. , 2020, , 251-266.		9
20	Two-Dimensional Transition Metal Dichalcogenides for Gas Sensing Applications. Environmental Chemistry for A Sustainable World, 2020, , 131-155.	0.5	9
21	Analytical Detection of Pesticides, Pollutants, and Pharmaceutical Waste in the Environment. Environmental Chemistry for A Sustainable World, 2020, , 87-129.	0.5	6
22	Hybridized Graphitic Carbon Nitride (g-CN) as High Performance VOCs Sensor. Materials Horizons, 2020, , 285-302.	0.6	7
23	Recent Advances on UV-Enhanced Oxide Nanostructures Gas Sensors. Materials Horizons, 2020, , 143-159.	0.6	3
24	Label-Free AC Sensing by a Graphene Transistor for 100-ppb Formaldehyde in Air. , 2019, , .		7
25	UV-assisted chemiresistors made with gold-modified ZnO nanorods to detect ozone gas at room temperature. Mikrochimica Acta, 2019, 186, 418.	5.0	109
26	<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
27	All-Carbon Based Flexible Humidity Sensor. Journal of Nanoscience and Nanotechnology, 2019, 19, 5310-5316.	0.9	27
28	Dew Point Measurement Using a Carbon-Based Capacitive Sensor with Active Temperature Control. ACS Applied Materials & Interfaces, 2019, 11, 1699-1705.	8.0	37
29	Graphene-Containing Microfluidic and Chip-Based Sensor Devices for Biomolecules. , 2019, , 321-336.		14
30	<i>A Special Issue</i> on Functional Nanomaterials for Sensor Applications. Sensor Letters, 2019, 17, 177-179.	0.4	1
31	A review on chemiresistive room temperature gas sensors based on metal oxide nanostructures, graphene and 2D transition metal dichalcogenides. Mikrochimica Acta, 2018, 185, 213.	5.0	502
32	AC phase sensing of graphene FETs for chemical vapors with fast recovery and minimal baseline drift. Sensors and Actuators B: Chemical, 2018, 263, 94-102.	7.8	51
33	Yolk-shelled ZnCo <sub>2</sub> O <sub>4</sub> microspheres: Surface properties and gas sensing application. Sensors and Actuators B: Chemical, 2018, 257, 906-915.	7.8	197
34	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. ACS Applied Materials & Interfaces, 2018, 10, 34087-34097.	8.0	132
35	Selective sensing of chemical vapors using phase spectra detection on CVD graphene fet. , 2018, , .		14
36	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). Sensors and Actuators B: Chemical, 2017, 239, 734-745.		94

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37	Wide-Angle X-ray Diffraction (WXR D). , 2017, , 313-337.		50
38	Ozone sensing properties of nickel phthalocyanine:ZnO nanorod heterostructures. , 2016, , .		12
39	Synthesis and Characterization of Polyurea Resin for Dielectric Coating Applications. Polymer-Plastics Technology and Engineering, 2016, 55, 1683-1692.	1.9	9
40	One-step approach for preparing ozone gas sensors based on hierarchical NiCo <sub>2</sub> O <sub>4</sub> structures. RSC Advances, 2016, 6, 92655-92662.	3.6	114
41	Room temperature detection of H <sub>2</sub> S by flexible gold-cobalt phthalocyanine heterojunction thin films. Sensors and Actuators B: Chemical, 2015, 206, 653-662.	7.8	59
42	Flexible H <sub>2</sub> S sensor based on gold modified polycarbazole films. Sensors and Actuators B: Chemical, 2014, 200, 227-234.	7.8	78
43	H <sub>2</sub> S sensing using in situ photo-polymerized polyaniline-silver nanocomposite films on flexible substrates. Organic Electronics, 2014, 15, 71-81.	2.6	102
44	Influence of Metal Doping on Electrical Properties of Nano Barium Titanate. Advanced Electrochemistry, 2014, 2, 3-8.	0.1	2
45	One step synthesis of highly ordered free standing flexible polypyrrole-silver nanocomposite films at air-water interface by photopolymerization. RSC Advances, 2013, 3, 13329.	3.6	56
46	Bending stress induced improved chemiresistive gas sensing characteristics of flexible cobalt-phthalocyanine thin films. Applied Physics Letters, 2013, 102, .	3.3	38
47	DIELECTRIC BEHAVIOR OF NANO BARIUM TITANATE FILLED POLYMERIC COMPOSITES. International Journal of Modern Physics Conference Series, 2013, 22, 1-10.	0.7	14
48	Electrochemical investigation of free-standing polypyrrole-silver nanocomposite films: a substrate free electrode material for supercapacitors. RSC Advances, 2013, 3, 24567.	3.6	55
49	Photo-induced synthesis of polypyrrole-silver nanocomposite films on N-(3-trimethoxysilylpropyl)pyrrole-modified biaxially oriented polyethylene terephthalate flexible substrates. RSC Advances, 2013, 3, 5506.	3.6	76
50	Temperature dependence dielectric properties of modified barium titanate-PVB composites. AIP Conference Proceedings, 2013, , .	0.4	4
51	Synthesis and dielectric behavior of nano-scale barium titanate. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 83-90.	2.9	20
52	Synthesis and Characterization of Nano-Barium Titanate Prepared by Hydrothermal Process. Integrated Ferroelectrics, 2010, 115, 142-148.	0.7	17