

Sachin T Navale

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,702
citations

331670

21
h-index

501196

28
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28
all docs

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docs citations

28
times ranked

1934
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly selective and sensitive room temperature NO ₂ gas sensor based on polypyrrole thin films. <i>Synthetic Metals</i> , 2014, 189, 94-99.	3.9	150
2	Synthesis of Fe ₂ O ₃ nanoparticles for nitrogen dioxide gas sensing applications. <i>Ceramics International</i> , 2013, 39, 6453-6460.	4.8	140
3	Ethanol sensing behavior of Pd-nanoparticles decorated ZnO-nanorod based chemiresistive gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126850.	7.8	136
4	Hybrid polyaniline-WO ₃ flexible sensor: A room temperature competence towards NH ₃ gas. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 279-288.	7.8	135
5	Zinc oxide hierarchical nanostructures as potential NO ₂ sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 551-563.	7.8	115
6	Enhanced acetone sensing properties of titanium dioxide nanoparticles with a sub-ppm detection limit. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1701-1710.	7.8	110
7	NO ₂ sensing properties of nanostructured tungsten oxide thin films. <i>Ceramics International</i> , 2014, 40, 16495-16502.	4.8	79
8	Nanostructured SnO ₂ thin films for NO ₂ gas sensing applications. <i>Ceramics International</i> , 2013, 39, 8673-8679.	4.8	76
9	Room temperature NO ₂ sensing properties of polythiophene films. <i>Synthetic Metals</i> , 2014, 195, 228-233.	3.9	74
10	Solution-processed rapid synthesis strategy of Co ₃ O ₄ for the sensitive and selective detection of H ₂ S. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 524-532.	7.8	71
11	Solid-state synthesis strategy of ZnO nanoparticles for the rapid detection of hazardous Cl ₂ . <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1102-1110.	7.8	71
12	Rapid synthesis strategy of CuO nanocubes for sensitive and selective detection of NO ₂ . <i>Journal of Alloys and Compounds</i> , 2017, 708, 456-463.	5.5	62
13	Novel route for fabrication of nanostructured In_2O_3 -Fe ₂ O ₃ gas sensor. <i>Materials Science in Semiconductor Processing</i> , 2014, 17, 67-73.	4.0	57
14	Ethanol gas sensing properties of hydrothermally grown In_2O_3 -MnO ₂ nanorods. <i>Journal of Alloys and Compounds</i> , 2017, 727, 362-369.	5.5	54
15	Nanostructured tin oxide films: Physical synthesis, characterization, and gas sensing properties. <i>Journal of Colloid and Interface Science</i> , 2017, 493, 162-170.	9.4	49
16	Flexible camphor sulfonic acid-doped PANi/ In_2O_3 -Fe ₂ O ₃ nanocomposite films and their room temperature ammonia sensing activity. <i>Materials Chemistry and Physics</i> , 2017, 189, 191-197.	4.0	45
17	Solution-processed nickel oxide films and their liquefied petroleum gas sensing activity. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2008-2015.	5.5	41
18	Thermally evaporated copper oxide films: A view of annealing effect on physical and gas sensing properties. <i>Ceramics International</i> , 2017, 43, 7057-7064.	4.8	40

#	ARTICLE	IF	CITATIONS
19	Integration of mesoporous ZnO and Au@ZnO nanospheres into sensing device for the ultrasensitive CH ₃ COCH ₃ detection down to ppb levels. <i>Applied Surface Science</i> , 2020, 518, 146223.	6.1	31
20	Design of flower-like V ₂ O ₅ hierarchical nanostructures by hydrothermal strategy for the selective and sensitive detection of xylene. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152378.	5.5	30
21	Low-temperature wet chemical synthesis strategy of In ₂ O ₃ for selective detection of NO ₂ down to ppb levels. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2102-2110.	5.5	26
22	High-performance dual cavity-interferometric volatile gas sensor utilizing Graphene/PMMA nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2020, 312, 127921.	7.8	21
23	Solid-state synthesis strategy of hierarchically-structured BiOCl desert-roses for the selective detection of C ₂ H ₅ OH. <i>Journal of Alloys and Compounds</i> , 2019, 778, 532-541.	5.5	19
24	Impact of electrolyte concentration on the supercapacitive properties of spray pyrolyzed CdO thin film electrode. <i>Solid State Ionics</i> , 2019, 334, 56-64.	2.7	17
25	Room temperature solid-state synthesis of mesoporous BiOI nanoflakes for the application of chemiresistive gas sensors. <i>Materials Chemistry and Physics</i> , 2020, 241, 122293.	4.0	15
26	Novel amine-functionalized zinc-based metal-organic framework for low-temperature chemiresistive hydrogen sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132120.	7.8	14
27	Hexamethylenetetramine-mediated TiO ₂ films: Facile chemical synthesis strategy and their use in nitrogen dioxide detection. <i>Materials Letters</i> , 2016, 173, 9-12.	2.6	13
28	C ₂ H ₅ OH sensing properties of solid-state mediated BiOBr nanoplates. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 126987.	7.8	11