

Ganesh Kumar Mani

List of Publications by Year in descending order

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69
papers

3,093
citations

172457

29
h-index

155660

55
g-index

70
all docs

70
docs citations

70
times ranked

3943
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic noses for food quality: A review. <i>Journal of Food Engineering</i> , 2015, 144, 103-111.	5.2	589
2	A highly selective room temperature ammonia sensor using spray deposited zinc oxide thin film. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 459-466.	7.8	223
3	Influence of Al doping on the structural, morphological, optical, and gas sensing properties of ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2017, 698, 555-564.	5.5	162
4	A highly selective and wide range ammonia sensor Nanostructured ZnO:Co thin film. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 191, 41-50.	3.5	138
5	Effective Ammonia Detection Using n-ZnO/p-NiO Heterostructured Nanofibers. <i>IEEE Sensors Journal</i> , 2016, 16, 2477-2483.	4.7	129
6	Selective detection of ammonia using spray pyrolysis deposited pure and nickel doped ZnO thin films. <i>Applied Surface Science</i> , 2014, 311, 405-412.	6.1	116
7	Novel and facile synthesis of randomly interconnected ZnO nanoplatelets using spray pyrolysis and their room temperature sensing characteristics. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 125-133.	7.8	103
8	Room temperature ammonia sensing properties of ZnO thin films grown by spray pyrolysis: Effect of Mg doping. <i>Journal of Alloys and Compounds</i> , 2016, 688, 422-429.	5.5	85
9	Influence of copper doping on structural, optical and sensing properties of spray deposited zinc oxide thin films. <i>Journal of Alloys and Compounds</i> , 2014, 582, 414-419.	5.5	78
10	ZnO nanoarchitectures: Ultrahigh sensitive room temperature acetaldehyde sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 343-351.	7.8	78
11	Nanostructured ZnO on cotton fabrics A novel flexible gas sensor & UV filter. <i>Journal of Cleaner Production</i> , 2018, 194, 372-382.	9.3	62
12	Template-free synthesis of vanadium sesquioxide (V_2O_3) nanosheets and their room-temperature sensing performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6402-6413.	10.3	61
13	Growth and influence of Gd doping on ZnO nanostructures for enhanced optical, structural properties and gas sensing applications. <i>Applied Surface Science</i> , 2020, 499, 143857.	6.1	60
14	Vanadium oxide nanostructures for chemiresistive gas and vapour sensing: a review on state of the art. <i>Mikrochimica Acta</i> , 2020, 187, 253.	5.0	60
15	Growth and characterization of spray pyrolysis deposited copper oxide thin films: Influence of substrate and annealing temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 111, 272-277.	5.5	59
16	Nanostructured Cerium-doped ZnO thin film A breath sensor. <i>Ceramics International</i> , 2016, 42, 18289-18295.	4.8	57
17	Microneedle pH Sensor: Direct, Label-Free, Real-Time Detection of Cerebrospinal Fluid and Bladder pH. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21651-21659.	8.0	55
18	ZnO-Based Microfluidic pH Sensor: A Versatile Approach for Quick Recognition of Circulating Tumor Cells in Blood. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5193-5203.	8.0	53

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19	Effect of nickel doping on structural, optical, electrical and ethanol sensing properties of spray deposited nanostructured ZnO thin films. <i>Ceramics International</i> , 2014, 40, 7993-8001.	4.8	49
20	Nanostructured flower like V ₂ O ₅ thin films and its room temperature sensing characteristics. <i>Ceramics International</i> , 2015, 41, 2221-2227.	4.8	49
21	Facile synthesis of ZnO nanostructures by spray pyrolysis technique and its application as highly selective H ₂ S sensor. <i>Materials Letters</i> , 2015, 158, 373-376.	2.6	47
22	Development of an acetone sensor using nanostructured Co ₃ O ₄ thin films for exhaled breath analysis. <i>RSC Advances</i> , 2019, 9, 30226-30239.	3.6	47
23	Investigation on CH ₄ sensing characteristics of hierarchical V ₂ O ₅ nanoflowers operated at relatively low temperature using chemiresistive approach. <i>Analytica Chimica Acta</i> , 2020, 1106, 148-160.	5.4	41
24	Advanced TiO ₂ @SiO ₂ @Sulfur (Ti@Si@S) Nanohybrid Materials: Potential Adsorbent for the Remediation of Contaminated Wastewater. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30247-30258.	8.0	39
25	Tuning selectivity through cobalt doping in spray pyrolysis deposited ZnO thin films. <i>Ceramics International</i> , 2016, 42, 1408-1415.	4.8	33
26	A simple and template free synthesis of branched ZnO nanoarchitectures for sensor applications. <i>RSC Advances</i> , 2014, 4, 64075-64084.	3.6	32
27	ZnO hierarchical 3D-flower like architectures and their gas sensing properties at room temperature. <i>Applied Surface Science</i> , 2018, 449, 314-321.	6.1	32
28	Electrocatalytic nanocauliflower structured fluorine doped CdO thin film as a potential arsenic sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 426-434.	7.8	30
29	Selective recognition of hydrogen sulfide using template and catalyst free grown ZnO nanorods. <i>RSC Advances</i> , 2015, 5, 54952-54962.	3.6	29
30	V ₂ O ₅ nanofibers: Potential contestant for high performance xylene sensor. <i>Journal of Alloys and Compounds</i> , 2018, 731, 805-812.	5.5	29
31	Synthesis and functional properties of nanostructured Gd-doped WO ₃ /TiO ₂ composites for sensing applications. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104732.	4.0	28
32	Solvent volume driven ZnO nanopetals thin films: Spray pyrolysis. <i>Materials Letters</i> , 2014, 134, 47-50.	2.6	27
33	MWCNTs-ZnO-SiO ₂ mesoporous nano-hybrid materials for CO ₂ capture. <i>Journal of Alloys and Compounds</i> , 2019, 800, 279-285.	5.5	27
34	Fluorine doped ZnO thin film as acetaldehyde sensor. <i>Semiconductor Science and Technology</i> , 2018, 33, 095005.	2.0	25
35	Impact of annealing duration on spray pyrolysis deposited nanostructured zinc oxide thin films. <i>Superlattices and Microstructures</i> , 2014, 67, 82-87.	3.1	23
36	Zinc oxide surface: a versatile nanoplatform for solvent-free synthesis of diverse isatin derivatives. <i>Tetrahedron Letters</i> , 2016, 57, 3472-3475.	1.4	23

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37	Fabrication of PANIâ€ZnO nanocomposite thin film for room temperature methanol sensor. Journal of Materials Science: Materials in Electronics, 2017, 28, 10799-10805.	2.2	23
38	Network mixed metal oxide (V^{4+} and Ti^{4+}) nanostructures as potential material for the detection of trimethylamine. New Journal of Chemistry, 2019, 43, 11069-11081.	2.8	23
39	Surfactant free controllable synthesis of 2D â€ 1D ZnO hierarchical nanostructure and its gas sensing properties. Applied Surface Science, 2018, 449, 838-845.	6.1	22
40	Synthesis and Characterization of Kapok Fibers and its Composites. Journal of Applied Sciences, 2012, 12, 1661-1665.	0.3	22
41	Nano ceria as xylene sensor â€ Role of cerium precursor. Journal of Alloys and Compounds, 2018, 753, 771-780.	5.5	21
42	Synthesis, Characterization and Adsorption Capability of MOF-5. Asian Journal of Scientific Research, 2012, 5, 247-254.	0.1	20
43	ZnO Nanospheres to Nanorods â€ Morphology Transition via Fe-doping. Superlattices and Microstructures, 2013, 62, 39-46.	3.1	18
44	A Room Temperature Methanol Vapour Sensor Based on Polyaniline Nanoparticles. Journal of Nanoscience and Nanotechnology, 2016, 16, 8315-8321.	0.9	17
45	Sub-ppm level detection of trimethylamine using V_2O_3 - Cu_2O mixed oxide thin films. Ceramics International, 2019, 45, 19528-19533.	4.8	17
46	Nanoimprint assisted free standing porous vanadium oxide nanosheet based ammonia sensor. Applied Surface Science, 2021, 541, 148271.	6.1	15
47	Metal Organic Framework (MOF-5) For Sensing of Volatile Organic Compounds. Journal of Applied Sciences, 2012, 12, 1681-1685.	0.3	15
48	Cadmium metavanadate mixed oxide nanorods for the chemiresistive detection of methane molecules. New Journal of Chemistry, 2020, 44, 12473-12485.	2.8	13
49	PANIâ€CdO Nanocomposite Thin Films as a Room Temperature Methanol Sensor. Journal of Electronic Materials, 2018, 47, 6000-6006.	2.2	11
50	Advanced Artificial Electronic Skin Based pH Sensing System for Heatstroke Detection. ACS Sensors, 2020, 5, 911-916.	7.8	11
51	Non-mutually exclusive dual role of hexamethylenetetramine on the growth of ZnO nanostructures and their sensing footprints. Materials Chemistry and Physics, 2018, 212, 394-402.	4.0	10
52	Thickness Dependent Room Temperature Sensing Properties of Spray Pyrolysis Deposited Nanostructured ZnO Thin Films. Nanoscience and Nanotechnology Letters, 2015, 7, 885-891.	0.4	8
53	Boron induced c-axis growth and ammonia sensing signatures of spray pyrolysis deposited ZnO thin films â€ Relation between crystallinity and sensing. Thin Solid Films, 2022, 746, 139126.	1.8	8
54	Spray Pyrolysis Deposited ZnO Nanopebbles as Room Temperature Ammonia Sensor. Sensor Letters, 2014, 12, 1451-1456.	0.4	7

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55	Substrate Temperature Effects on Room Temperature Sensing Properties of Nanostructured ZnO Thin Films. Journal of Nanoscience and Nanotechnology, 2016, 16, 489-496.	0.9	6
56	A Simple and Novel Room Temperature Ethanolamine ZnO Nanosensor. Nanoscience and Nanotechnology Letters, 2014, 6, 1046-1052.	0.4	6
57	Vanadium Oxide Nanoparticles For Dimethylamine Vapour Detection. , 2018, , .		5
58	Modulation of ZnO film thickness and formation of water-hyacinth nanostructure. EPJ Applied Physics, 2014, 67, 20301.	0.7	4
59	Preparation of free-standing V ₂ O ₅ nanosheets for ammonia sensing application: A potential candidate for flexible sensors. Journal of Science: Advanced Materials and Devices, 2022, 7, 100415.	3.1	4
60	Fabrication and Analysis of Energy Efficient Low-Cost Wireless Gas Sensor Based on ZnO Thin Films. Journal of Nanoscience and Nanotechnology, 2021, 21, 2132-2138.	0.9	3
61	Role of Thermal Energy Sources in Chemical Solution Process to Synthesize V ₂ O ₅ Nanostructures. Journal of Nanoscience and Nanotechnology, 2018, 18, 7923-7926.	0.9	1
62	A novel electrolyte free solid state pH sensor for Bio-MEMS applications. , 2016, , .		0
63	Microneedles based biosensor for living cells: A novel approach. , 2017, , .		0
64	Development of Pasted Sheet Sensor Using P(VDF-TrFE). , 2018, , .		0
65	Intraoral pH Measurement: A Cool Way to Recognize Stress. , 2018, , .		0
66	Development of Intranasal Sensor for Lung Cancer Detection. , 2018, , .		0
67	Cleanroom and Template Free Fabrication of Single Polygonal Shaped Microneedle. Journal of Nanoscience and Nanotechnology, 2021, 21, 4861-4864.	0.9	0
68	Oxygen Sensing Characteristics of Milled Metal Oxide Materials. Journal of Applied Sciences, 2012, 12, 1666-1670.	0.3	0
69	Effect of Precursor Volume on Spray Pyrolysis Deposited Nanostructured ZnO Thin Films. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 529-533.	0.5	0