

Yuvaraj Sivalingam

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

830
citations

567281

15
h-index

526287

27
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59
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59
docs citations

59
times ranked

771
citing authors

#	ARTICLE	IF	CITATIONS
1	VOCs adsorption induced surface potential changes on phthalocyanines: A combined experimental and theoretical approach towards food freshness monitoring. <i>Materials Letters</i> , 2022, 306, 130945.	2.6	12
2	Photo-enhanced acetone adsorption on γ -MnO ₂ nanoparticles: A step towards non-invasive detection of diabetes mellitus. <i>Materials Letters</i> , 2022, 306, 130944.	2.6	8
3	Recent Progress in Graphene Derivatives/Metal Oxides Binary Nanocomposites Based Chemi-resistive Sensors for Disease Diagnosis by Breath Analysis. <i>Current Analytical Chemistry</i> , 2022, 18, 563-576.	1.2	13
4	Investigation of UV light enhanced gas adsorption properties of CeO ₂ Nanoparticles by Scanning Kelvin Probe system. <i>Journal of Molecular Structure</i> , 2022, 1250, 131831.	3.6	3
5	Combinatorial selectivity with an array of phthalocyanines functionalized TiO ₂ /ZnO heterojunction thin film sensors. <i>Nanotechnology</i> , 2022, 33, 075503.	2.6	10
6	CeO ₂ nanoparticles based extended gate field effect transistor for enzyme free detection of glucose. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9483-9489.	2.2	1
7	Ferroelectric-semiconductor BaTiO ₃ -Ag ₂ O nanohybrid as an efficient piezo-photocatalytic material. <i>Chemosphere</i> , 2022, 292, 133398.	8.2	12
8	Surface photovoltage measurement of PM ₁₀ atmospheric aerosols collected over SRMIST-Kattankulathur campus (12.81°N & 80.03°E): a step towards utilization of atmospheric aerosols in optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9590-9598.	2.2	1
9	Electrocatalytic Oxygen Reduction Reaction at Silver Nanoparticles (AgNPs) Electrode in Neutral Solution: 5-amino-2-naphthalene-sulfonic acid (ANS) as a Reducing Agent for AgNPs. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 023010.	1.8	1
10	Graphene Oxide based Gas Sensor for Triethylamine Detection at Room Temperature. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1219, 012031.	0.6	2
11	A ZIF-67 derived Co ₃ O ₄ dodecahedron shaped microparticle electrode based extended gate field-effect transistor for non-enzymatic glucose detection towards the diagnosis of diabetes mellitus. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5345-5355.	5.5	16
12	Enzyme Free Detection of Glucose Using MgO Nanocubes Based Extended Gate N-channel MOSFET. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1219, 012030.	0.6	2
13	Post-deposition annealing influences of gas adsorption on semi-vertical γ -FeOOH nanorods at room temperature: A scanning kelvin probe analysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 280, 115694.	3.5	5
14	Self-assembly induced tunable multiple fluorescence output from a white light-emitting functionalized single π -conjugated molecule and implication in VOC sensing applications. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1421-1436.	5.9	7
15	Elucidation of sensing mechanism through VOCs induced surface potential changes on graphene oxide/tin oxide nanocomposites. <i>Ceramics International</i> , 2022, 48, 29152-29157.	4.8	5
16	Tuning the π -Conjugation of 2-Thiohydantoins toward a Rigorously Defined Detection of Volatile Organic Compounds by Surface Photovoltage. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2313-2325.	4.3	8
17	Influence of gas adsorption on the surface photovoltage of Au nanorods embedded polymer coated ZnO nanorods under visible light irradiation. <i>Ceramics International</i> , 2022, 48, 29158-29164.	4.8	2
18	Electron transfer behaviour of green synthesized carbon quantum dot sensor towards VOC and heavy metal ion sensing. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 282, 115792.	3.5	7

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19	Mechanism of analog bipolar resistive switching and work function in Au/Na _{0.5} Bi _{0.5} TiO ₃ /Pt heterostructure thin films. <i>Materials Chemistry and Physics</i> , 2021, 257, 123765.	4.0	3
20	Light-Activated Porphyrinoid-Capped Nanoparticles for Gas Sensing. <i>ACS Applied Nano Materials</i> , 2021, 4, 414-424.	5.0	19
21	Self-powered, rapid-response, and highly flexible nanosensors. , 2021, , 397-415.		2
22	Design and development of novel piezoelectric nanogenerator based on pH dependent ZnO nanostructures. <i>Materials Letters</i> , 2021, 294, 129798.	2.6	5
23	Polymorphism induced gas adsorption on naphthalic imide appended phenothiazine for the detection of volatile organic compounds. <i>Materials Letters</i> , 2021, 303, 130471.	2.6	5
24	Naphthalene appended diketopyrrolopyrrole derivatives functionalized on ZnO nanostructures: An investigation on gas adsorption induced surface potential changes at room temperature. <i>Materials Letters</i> , 2021, 304, 130724.	2.6	10
25	COVID-19: A review of newly formed viral clades, pathophysiology, therapeutic strategies and current vaccination tasks. <i>International Journal of Biological Macromolecules</i> , 2021, , .	7.5	14
26	Tunable visible light enhanced triethylamine adsorption on pH dependent ZnO nanostructures: An investigation by scanning Kelvin probe. <i>Surfaces and Interfaces</i> , 2021, 27, 101507.	3.0	8
27	Temperature-Dependent Electrical Transport Properties of Single-Walled Carbon Nanotube Thin Films Prepared by Electrohydrodynamic Atomization Technique. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000029.	1.8	1
28	Investigation on visible light assisted gas sensing ability of multi-walled carbon nanotubes coated with pyrene based organic molecules. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114232.	2.7	17
29	Tribological Behavior of NiMoAl-Based Self-Lubricating Composites. <i>ACS Omega</i> , 2020, 5, 14669-14678.	3.5	18
30	Electrical transport properties and impedance analysis of Au/ZnO nanorods/ITO heterojunction device. <i>Nano Express</i> , 2020, 1, 030020.	2.4	12
31	Aggregation behavior in naphthalene-appended diketopyrrolopyrrole derivatives and its gas adsorption impact on surface potential. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9954-9965.	5.5	34
32	Synthesis of BiVO ₄ quantum dots/reduced graphene oxide composites for CO ₂ reduction. <i>Materials Science in Semiconductor Processing</i> , 2019, 102, 104578.	4.0	34
33	Indium content dependent VOCs interactions in monolithic InGaN/GaN multi quantum well structures grown by MOCVD. <i>Materials Science in Semiconductor Processing</i> , 2019, 104, 104694.	4.0	14
34	Comparative Study on the Preparation and Gas Sensing Properties of Reduced Graphene Oxide/SnO ₂ Binary Nanocomposite for Detection of Acetone in Exhaled Breath. <i>Analytical Chemistry</i> , 2019, 91, 5116-5124.	6.5	75
35	Observation of anomalous transport characteristics in graphene-oxide thinfilm. <i>Materials Chemistry and Physics</i> , 2018, 213, 89-94.	4.0	6
36	Investigation of photocatalytic performances of sulfur based reduced graphene oxide-TiO ₂ nanohybrids. <i>Applied Surface Science</i> , 2018, 449, 712-718.	6.1	29

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37	A realization scheme of metamagnetic phase transition in FeRh films grown on glass substrates. Applied Surface Science, 2018, 449, 380-383.	6.1	3
38	Study of structural and electrochemical properties of La ₂ SrV ₂ O ₉ perovskites prepared using ball-milling. Applied Surface Science, 2018, 449, 468-473.	6.1	9
39	Facile one-pot synthesis of chain-like titanium dioxide nanostructure arrays for efficient ultraviolet sensing. Applied Surface Science, 2018, 449, 239-243.	6.1	10
40	A facile method to fabricated UV-Vis photodetectors based on TiO ₂ /Si heterojunction. Applied Surface Science, 2018, 449, 358-362.	6.1	19
41	An investigation of GO-SnO ₂ -TiO ₂ ternary nanocomposite for the detection of acetone in diabetes mellitus patient's breath. Applied Surface Science, 2018, 449, 677-684.	6.1	62
42	Development of Gas Sensor Array based on Phthalocyanines Functionalized TiO ₂ /ZnO Heterojunction Thin Films. Proceedings (mdpi), 2018, 2, 1042.	0.2	0
43	Electrical transport properties of two-dimensional MoS ₂ nanosheets synthesized by novel method. Materials Science in Semiconductor Processing, 2017, 66, 81-86.	4.0	18
44	Interaction of Pyrene Ligands with Neat and Defective Two Dimensional ZnO: A First Principles Study. MRS Advances, 2017, 2, 2799-2805.	0.9	0
45	Interaction of VOCs with pyrene tetra-topic ligands layered on ZnO nanorods under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 324, 62-69.	3.9	17
46	Structural and optical correlation of Ni doped ZnO nanorods. , 2015, , .		1
47	The light modulation of the interaction of l-cysteine with porphyrins coated ZnO nanorods. Sensors and Actuators B: Chemical, 2015, 209, 613-621.	7.8	14
48	The Gas Sensing Properties of Porphyrins-coated Laterally Grown ZnO Nanorods. Procedia Engineering, 2014, 87, 1039-1042.	1.2	3
49	Photo-assisted chemical sensors. Proceedings of SPIE, 2014, , .	0.8	0
50	The influence of film morphology and illumination conditions on the sensitivity of porphyrins-coated ZnO nanorods. Analytica Chimica Acta, 2014, 810, 86-93.	5.4	27
51	Low voltage electrolyte-gated organic transistors making use of high surface area activated carbon gate electrodes. Journal of Materials Chemistry C, 2014, 2, 5690-5694.	5.5	50
52	Drift Correction in a Porphyrin-coated ZnO Nanorods Gas Sensor. Procedia Engineering, 2014, 87, 608-611.	1.2	3
53	The light enhanced gas selectivity of one-pot grown porphyrins coated ZnO nanorods. Sensors and Actuators B: Chemical, 2013, 188, 475-481.	7.8	33
54	Gas Sensitivity of the Surface Potential of Hybrid Porphyrin-ZnO Nanorods. Procedia Engineering, 2012, 47, 446-449.	1.2	2

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55	The influence of gas adsorption on photovoltage in porphyrin coated ZnO nanorods. Journal of Materials Chemistry, 2012, 22, 20032.	6.7	40
56	Gas-Sensitive Photoconductivity of Porphyrin-Functionalized ZnO Nanorods. Journal of Physical Chemistry C, 2012, 116, 9151-9157.	3.1	90
57	Gas Effect On The Surface Photovoltage Of Porphyrin Functionalized ZnO Nanorods. Advanced Materials Letters, 2012, 3, 442-448.	0.6	5
58	Monocarboxy Tetraphenylporphyrin functionalized ZnO nanorods photoactivated gas sensor. Procedia Engineering, 2011, 25, 1333-1336.	1.2	3