

Bhat Lakshmeshri Ramachandra

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

4,442
citations

126901

33
h-index

114455

63
g-index

108
all docs

108
docs citations

108
times ranked

5079
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Development of a Non-Enzymatic Electrochemical Biosensor for the Detection of Glutathione. <i>Electroanalysis</i> , 2023, 35, .	2.9	3
2	Development of an Electrodeposited Graphene Quantum Dot Electrode for the Electrochemical Detection of C-reactive Protein (CRP) Biomarker. <i>ChemistrySelect</i> , 2022, 7, .	1.5	4
3	Genetic and chaotic signatures in offspring – an encrypted generation of image family. <i>Multimedia Tools and Applications</i> , 2021, 80, 8581-8609.	3.9	1
4	Room-temperature acetaldehyde-sensing properties of SILAR-deposited ZnO thin films: role of tungsten doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17700-17715.	2.2	3
5	Electrochemical Probing of H ₂ O ₂ Using TiO ₂ -ZrO ₂ -HfO ₂ Modified Glassy Carbon Electrode: A Promoted Sacrificial Behavior of Hf ⁴⁺ ions. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	2
6	Fabrication of GQD-Electrodeposited Screen-Printed Carbon Electrodes for the Detection of the CRP Biomarker. <i>ACS Omega</i> , 2021, 6, 32528-32536.	3.5	14
7	Investigations on room temperature dual sensitization of ZnO nanostructures towards fish quality biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127082.	7.8	23
8	Room-temperature gas sensing of laser-modified anatase TiO ₂ decorated with Au nanoparticles. <i>Applied Surface Science</i> , 2020, 507, 145169.	6.1	72
9	S, N-GQDs Enzyme Mimicked Electrochemical Sensor to Detect the Hazardous Level of Monocrotophos in Water. <i>Electroanalysis</i> , 2020, 32, 971-977.	2.9	8
10	Fabrication of a Nano-Interfaced Electrochemical Triglyceride Biosensor and its Potential Application towards Distinguishing Cancer and Normal Cells. <i>ChemistrySelect</i> , 2020, 5, 13492-13501.	1.5	1
11	Growth of ±-MoO ₃ Golf Ball Architectures with Interlocking Loops for Selective Probing of Trimethylamine at Room Temperature. <i>Materials Research Bulletin</i> , 2020, 130, 110944.	5.2	12
12	Influence of calcination temperature on the growth of electrospun multi-junction ZnO nanowires: A room temperature ammonia sensor. <i>Materials Science in Semiconductor Processing</i> , 2020, 112, 105006.	4.0	25
13	Room temperature chemiresistive gas sensors: challenges and strategies – a mini review. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15825-15847.	2.2	73
14	A facile microwave synthesis of rGO, ZrO ₂ and rGO-ZrO ₂ nanocomposite and their room temperature gas sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17094-17105.	2.2	12
15	Indicator-based lightweight steganography on 32-bit RISC architectures for IoT security. <i>Multimedia Tools and Applications</i> , 2019, 78, 31485-31513.	3.9	6
16	Methylglyoxal – An emerging biomarker for diabetes mellitus diagnosis and its detection methods. <i>Biosensors and Bioelectronics</i> , 2019, 133, 107-124.	10.1	56
17	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
18	Encrypted Biography of Biomedical Image - a Pentlayer Cryptosystem on FPGA. <i>Journal of Signal Processing Systems</i> , 2019, 91, 475-501.	2.1	27

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19	Chemically synthesized butein and butin: Optical, structure and electrochemical redox functionality at electrode interface. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 182, 122-129.	3.8	12
20	Networked hardware assisted key image and chaotic attractors for secure RGB image communication. <i>Multimedia Tools and Applications</i> , 2018, 77, 23449-23482.	3.9	26
21	Wavelet based spectral approach for solving surface coverage model in an electrochemical arsenic sensor - An operational matrix approach. <i>Electrochimica Acta</i> , 2018, 266, 27-33.	5.2	5
22	A non-enzymatic two step catalytic reduction of methylglyoxal by nanostructured V ₂ O ₅ modified electrode. <i>Biosensors and Bioelectronics</i> , 2018, 103, 143-150.	10.1	18
23	A non-linear analytical model to estimate the response and recovery times of gaseous ammonia nanosensor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 125, 176-181.	5.0	2
24	Fabrication of Electrochemical Biosensor with ZnO-PVA Nanocomposite Interface for the Detection of Hydrogen Peroxide. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 4371-4379.	0.9	11
25	Transreceiving of encrypted medical image – a cognitive approach. <i>Multimedia Tools and Applications</i> , 2018, 77, 8393-8418.	3.9	25
26	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
27	Fabrication of an electrochemical biosensor with ZnO nanoflakes interface for methylglyoxal quantification in food samples. <i>Food Science and Biotechnology</i> , 2018, 27, 9-17.	2.6	8
28	Growth of Eshelby twisted ZnO nanowires through nanoflakes & nanoflowers: A room temperature ammonia sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 129-143.	7.8	57
29	Significance of Nanoparticles and the Role of Amino Acids in Structuring Them – A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5222-5233.	0.9	14
30	Fluorine doped ZnO thin film as acetaldehyde sensor. <i>Semiconductor Science and Technology</i> , 2018, 33, 095005.	2.0	25
31	PANI – CdO Nanocomposite Thin Films as a Room Temperature Methanol Sensor. <i>Journal of Electronic Materials</i> , 2018, 47, 6000-6006.	2.2	11
32	Chaos triggered image encryption - a reconfigurable security solution. <i>Multimedia Tools and Applications</i> , 2018, 77, 11669-11692.	3.9	22
33	Zinc oxide nanoparticles-based electrochemical sensor for the detection of nitrate ions in water with a low detection limit – a chemometric approach. <i>Journal of Analytical Chemistry</i> , 2017, 72, 316-326.	0.9	17
34	Fabrication of electrochemical biosensor with vanadium pentoxide nano-interface for the detection of methylglyoxal in rice. <i>Analytical Biochemistry</i> , 2017, 528, 19-25.	2.4	11
35	Design and development of amperometric biosensor for the detection of lead and mercury ions in water matrix – a permeability approach. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4257-4266.	3.7	26
36	Simultaneous voltammetric determination of captan, carbosulfan, 2,3,7,8-tetrachlorodibenzodioxin and pentachlorophenol in groundwater by ceria nanospheres decorated platinum electrode and chemometrics. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 109, 130-136.	5.0	6

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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	Design and Development of Acetylthiocholine Electrochemical Biosensor Based on Zinc Oxideâ€Cerium Oxide Nanohybrid Modified Platinum Electrode. Bulletin of Environmental Contamination and Toxicology, 2017, 98, 662-671.	2.7	5
39	Monomer: Design of ZnO Nanostructures (Nanobush and Nanowire) and Their Room-Temperature Ethanol Vapor Sensing Signatures. ACS Applied Materials & Interfaces, 2017, 9, 38135-38145.	8.0	56
40	Tamper Proofing Identification and Authenticated DICOM Image Transmission Using Wireless Channels and CR Network. Wireless Personal Communications, 2017, 97, 5573-5595.	2.7	5
41	Room temperature ethanol sensing properties of ZnO nanorods prepared using an electrospinning technique. Journal of Materials Chemistry C, 2017, 5, 10869-10880.	5.5	62
42	Non-enzymatic detection of glucose in fruits using TiO2â€Mn3O4 hybrid nano interface. Applied Nanoscience (Switzerland), 2017, 7, 309-316.	3.1	8
43	Implementation of extended Kalman filter-based simultaneous localization and mapping: a point feature approach. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1495-1504.	1.3	4
44	A low power ammonia sensor node embedded with a light weight non-linear analytics. Sensors and Actuators A: Physical, 2017, 263, 357-362.	4.1	6
45	Simultaneous electrochemical detection of Cd(II), Pb(II), As(III) and Hg(II) ions using ruthenium(II)-textured graphene oxide nanocomposite. Talanta, 2017, 162, 574-582.	5.5	107
46	Fusion of confusion and diffusion: a novel image encryption approach. Telecommunication Systems, 2017, 65, 65-78.	2.5	22
47	Design and development of electrochemical biosensor for the simultaneous detection of melamine and urea in adulterated milk samples. Sensors and Actuators B: Chemical, 2017, 238, 1283-1292.	7.8	69
48	Fabrication of mediator-free hybrid nano-interfaced electrochemical biosensor for monitoring cancer cell proliferation. Biosensors and Bioelectronics, 2017, 87, 832-841.	10.1	32
49	Room temperature ammonia sensing properties of ZnO thin films grown by spray pyrolysis: Effect of Mg doping. Journal of Alloys and Compounds, 2016, 688, 422-429.	5.5	85
50	Electrocatalytic nanocauliflower structured fluorine doped CdO thin film as a potential arsenic sensor. Sensors and Actuators B: Chemical, 2016, 234, 426-434.	7.8	30
51	Calcium carbide in mangoes: an electrochemical way for detection. Analytical Methods, 2016, 8, 4590-4599.	2.7	11
52	Nanostructured Cerium-doped ZnO thin film â€ A breath sensor. Ceramics International, 2016, 42, 18289-18295.	4.8	57
53	Racetrack Effect on the Dissimilar Sensing Response of ZnO Thin Filmâ€An Anisotropy of Isotropy. ACS Applied Materials & Interfaces, 2016, 8, 24924-24932.	8.0	36
54	Zinc oxide surface: a versatile nanoplatform for solvent-free synthesis of diverse isatin derivatives. Tetrahedron Letters, 2016, 57, 3472-3475.	1.4	23

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55	Multiplexed stego path on reconfigurable hardware: A novel random approach. Computers and Electrical Engineering, 2016, 55, 153-163.	4.8	7
56	Chaos based crossover and mutation for securing DICOM image. Computers in Biology and Medicine, 2016, 72, 170-184.	7.0	171
57	Estimation of methylglyoxal in cow milk – an accurate electrochemical response time based approach. Analytical Methods, 2016, 8, 2207-2217.	2.7	11
58	Simultaneous detection of monocrotophos and dichlorvos in orange samples using acetylcholinesterase–zinc oxide modified platinum electrode with linear regression calibration. Sensors and Actuators B: Chemical, 2016, 230, 306-313.	7.8	29
59	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
60	Electrochemical acetylcholinesterase biosensor based on ZnO nanocuboids modified platinum electrode for the detection of carbosulfan in rice. Biosensors and Bioelectronics, 2016, 77, 1070-1077.	10.1	73
61	Evaluation of Inhibition Efficiency for the Detection of Captan, 2,3,7,8-Tetrachlorodibenzodioxin, Pentachlorophenol and Carbosulfan in Water: An Electrochemical Approach. Bulletin of Environmental Contamination and Toxicology, 2016, 96, 217-223.	2.7	8
62	ZnO nanoarchitectures: Ultrahigh sensitive room temperature acetaldehyde sensor. Sensors and Actuators B: Chemical, 2016, 223, 343-351.	7.8	78
63	Nano interfaced biosensor for detection of choline in triple negative breast cancer cells. Journal of Colloid and Interface Science, 2016, 462, 334-340.	9.4	34
64	Tuning selectivity through cobalt doping in spray pyrolysis deposited ZnO thin films. Ceramics International, 2016, 42, 1408-1415.	4.8	33
65	Cyclic voltammetric acetylcholinesterase biosensor for the detection of captan in apple samples with the aid of chemometrics. Analytical and Bioanalytical Chemistry, 2015, 407, 4863-4868.	3.7	16
66	Facile synthesis of ZnO nanostructures by spray pyrolysis technique and its application as highly selective H ₂ S sensor. Materials Letters, 2015, 158, 373-376.	2.6	47
67	Selective recognition of hydrogen sulfide using template and catalyst free grown ZnO nanorods. RSC Advances, 2015, 5, 54952-54962.	3.6	29
68	Triple chaotic image scrambling on RGB – a random image encryption approach. Security and Communication Networks, 2015, 8, 3335-3345.	1.5	37
69	Highly selective acetaldehyde sensor using sol–gel dip coated nano crystalline TiO ₂ thin film. Journal of Materials Science: Materials in Electronics, 2015, 26, 5135-5139.	2.2	18
70	Medical data sheet in safe havens – A tri-layer cryptic solution. Computers in Biology and Medicine, 2015, 62, 264-276.	7.0	53
71	A review on detection of heavy metal ions in water – An electrochemical approach. Sensors and Actuators B: Chemical, 2015, 213, 515-533.	7.8	785
72	Electrospun tailored ZnO nanostructures – role of chloride ions. RSC Advances, 2015, 5, 85363-85372.	3.6	21

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73	Investigation of Electron Transfer Properties of Nanoceria Based Acetylcholine Biosensor Using Chemometric Methods. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 1652-1660.	0.4	1
74	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
75	Thickness Dependent Room Temperature Sensing Properties of Spray Pyrolysis Deposited Nanostructured ZnO Thin Films. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 885-891.	0.4	8
76	Chemometric Analysis for the Determination of Methylglyoxal in Grilled Chicken Using ZnO Flakes Based Glyoxalase 1 Biosensor. <i>Sensor Letters</i> , 2015, 13, 245-253.	0.4	9
77	Theoretical Investigation of Surface Coverage in the Electrochemical Behaviour of Enzyme Modified Electrodes. <i>Sensor Letters</i> , 2015, 13, 344-348.	0.4	6
78	Optimization of Electrochemical Parameters for Specific Blood Methylglyoxal Determination Using ZnO Sepals Based Glyoxalase 1 Biosensor. <i>Sensor Letters</i> , 2015, 13, 328-337.	0.4	7
79	Modulation of ZnO film thickness and formation of water-hyacinth nanostructure. <i>EPL Applied Physics</i> , 2014, 67, 20301.	0.7	4
80	Stego on FPGA: An IWT Approach. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	15
81	Electrochemical enzymeless detection of superoxide employing naringin—copper decorated electrodes. <i>Biosensors and Bioelectronics</i> , 2014, 59, 134-139.	10.1	25
82	Electrochemical biosensor with ceria—polyaniline core shell nano-interface for the detection of carbonic acid in blood. <i>Journal of Colloid and Interface Science</i> , 2014, 425, 52-58.	9.4	31
83	Development of electrochemical biosensor with ceria—PANI core—shell nano-interface for the detection of histamine. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 330-338.	7.8	84
84	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
85	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
86	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
87	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
88	A simple and template free synthesis of branched ZnO nanoarchitectures for sensor applications. <i>RSC Advances</i> , 2014, 4, 64075-64084.	3.6	32
89	Solvent volume driven ZnO nanopetals thin films: Spray pyrolysis. <i>Materials Letters</i> , 2014, 134, 47-50.	2.6	27
90	CO ₂ gas sensing properties of DC reactive magnetron sputtered ZnO thin film. <i>Ceramics International</i> , 2014, 40, 13115-13122.	4.8	92

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91	An electrochemical biosensor with nanointerface for lactate detection based on lactate dehydrogenase immobilized on zinc oxide nanorods. Journal of Colloid and Interface Science, 2014, 414, 90-96.	9.4	51
92	Selective detection of ammonia using spray pyrolysis deposited pure and nickel doped ZnO thin films. Applied Surface Science, 2014, 311, 405-412.	6.1	116
93	ZnO Nanospheres to Nanorods " Morphology Transition via Fe-doping. Superlattices and Microstructures, 2013, 62, 39-46.	3.1	18
94	Fabrication of lactate biosensor based on lactate dehydrogenase immobilized on cerium oxide nanoparticles. Journal of Colloid and Interface Science, 2013, 410, 158-164.	9.4	83
95	A highly selective room temperature ammonia sensor using spray deposited zinc oxide thin film. Sensors and Actuators B: Chemical, 2013, 183, 459-466.	7.8	223
96	Lipase immobilized on nanostructured cerium oxide thin film coated on transparent conducting oxide electrode for butyryl sensing. Materials Chemistry and Physics, 2013, 137, 892-897.	4.0	20
97	Modulation of hiding intensity by channel intensity - Stego by pixel commando. , 2012, , .		7
98	Who decides hiding capacity? I, the pixel intensity. , 2012, , .		10
99	An intelligent chaotic embedding approach to enhance stego-image quality. Information Sciences, 2012, 193, 115-124.	6.9	121
100	Structural, morphological, electrical and vapour sensing properties of Mn doped nanostructured ZnO thin films. Sensors and Actuators B: Chemical, 2012, 166-167, 624-631.	7.8	78
101	Synthesis and Characterization of Cerium Oxide Nanoparticles by Hydroxide Mediated Approach. Journal of Applied Sciences, 2012, 12, 1734-1737.	0.3	96
102	Smart bit manipulation for K bit encoded hiding in K-1 pixel bits. , 2011, , .		2
103	Wave (let) decide choosy pixel embedding for stego. , 2011, , .		20
104	Steg-OFDM blend for highly secure multi-user communication. , 2011, , .		20
105	Covered CDMA multi-user writing on spatially divided image. , 2011, , .		16
106	ETHANOL AND TRIMETHYL AMINE SENSING BY ZnO-BASED NANOSTRUCTURED THIN FILMS. International Journal of Nanoscience, 2011, 10, 1161-1165.	0.7	10