

John Bosco Balaguru Rayappan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

279
papers

6,334
citations

41
h-index

67
g-index

301
ext. papers

7,490
ext. citations

3.7
avg, IF

6.66
L-index

#	Paper	IF	Citations
279	Boron induced c-axis growth and ammonia sensing signatures of spray pyrolysis deposited ZnO thin films [Relation between crystallinity and sensing. <i>Thin Solid Films</i> , 2022 , 746, 139126	2.2	0
278	Room temperature ZnO/NiO heterostructure sensing response: A breath biomarker sensor. <i>Journal of Alloys and Compounds</i> , 2022 , 165224	5.7	1
277	Ru quantum dots decorated graphitic carbon nitride (Ru-QDs@g-CN) for chemi-resistive sensing of 3-methyl-1-butanol at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022 , 368, 132060	8.5	0
276	Biosensors for the Detection of Spoilage Levels and Excess Preservatives in Seafood 2022 , 287-315		
275	Fabrication of GQD-Electrodeposited Screen-Printed Carbon Electrodes for the Detection of the CRP Biomarker.. <i>ACS Omega</i> , 2021 , 6, 32528-32536	3.9	3
274	Photoluminescence-Based Bioassay With Cysteamine-Capped TiO Nanoparticles for the Selective Recognition of -Acyl Homoserine Lactones.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 750933	5.8	1
273	Principles and Recent Advances in Biosensors for Pathogens Detection. <i>ChemistrySelect</i> , 2021 , 6, 10063-10091	10.3	3
272	NiOx modified cellulose cloth for the removal of U(VI) from water. <i>Advanced Powder Technology</i> , 2021 , 32, 4343-4355	4.6	0
271	Uncover the cover to recover the hidden secret - A separable reversible data hiding framework. <i>Multimedia Tools and Applications</i> , 2021 , 80, 19695-19714	2.5	5
270	MUX induced Ring oscillators for encrypted Nano communication via Quantum Dot Cellular Automata. <i>Nano Communication Networks</i> , 2021 , 27, 100338	2.9	0
269	Metal Organic Framework Functionalized Textiles as Protective Clothing for the Detection and Detoxification of Chemical Warfare Agents—A Review. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4218-4239	3.9	14
268	ROI-based medical image watermarking for accurate tamper detection, localisation and recovery. <i>Medical and Biological Engineering and Computing</i> , 2021 , 59, 1355-1372	3.1	3
267	Hierarchically connected electrospun WO ₃ nanowires [An acetaldehyde sensor. <i>Journal of Alloys and Compounds</i> , 2021 , 863, 158407	5.7	7
266	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	2.1	0
265	SILAR-deposited nanostructured ZnO thin films: effect of deposition cycles on surface properties. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	1
264	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	2.6	2
263	Microwave-assisted in-situ incorporation of nanostructured H WO on cotton cellulose for enhanced ultraviolet shielding applications. <i>Applied Surface Science</i> , 2021 , 541, 148378	6.7	1

262	Neural-assisted image-dependent encryption scheme for medical image cloud storage. <i>Neural Computing and Applications</i> , 2021 , 33, 6671-6684	4.8	8
261	Genetic and chaotic signatures in offspring of an encrypted generation of image family. <i>Multimedia Tools and Applications</i> , 2021 , 80, 8581-8609	2.5	1
260	Insights into g-C3N4 as a chemi-resistive gas sensor for VOCs and humidity: a review of the state of the art and recent advancements. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10612-10651	13	20
259	Fabrication of screen-printed electrodes: opportunities and challenges. <i>Journal of Materials Science</i> , 2021 , 56, 8951-9006	4.3	17
258	Mutated Cleavages of Images for Stealth Disclosure: A Hopfield Neural Network Attractor (HNNA) Approach. <i>Neural Processing Letters</i> , 2021 , 53, 907-928	2.4	2
257	Influence of PVA templates on the synthesis of interconnected and long-winded electrospun V2O5 nanowires: an acetone sensor. <i>Materials Research Bulletin</i> , 2021 , 139, 111276	5.1	5
256	A Metal-free Mesoporous g-C3N4 Nanosheets for Selective and Sensitive Recognition of Ethanol at Room Temperature. <i>Sensors and Actuators B: Chemical</i> , 2021 , 130828	8.5	3
255	Chemi-resistive sensing of methylamine species using twinned TiMoO_3 nanorods: Role of grain features, activation energy and surface defects. <i>Sensors and Actuators B: Chemical</i> , 2021 , 349, 130759	8.5	6
254	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	1.8	
253	"Nano": An Emerging Avenue in Electrochemical Detection of Neurotransmitters. <i>ACS Chemical Neuroscience</i> , 2020 , 11, 4024-4047	5.7	8
252	Reversible data hiding method based on pixel expansion and homomorphic encryption. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 39, 2977-2990	1.6	4
251	Electroactive Manganese Oxide/Reduced Graphene Oxide Interfaced Electrochemical Detection of Urea. <i>Water, Air, and Soil Pollution</i> , 2020 , 231, 1	2.6	3
250	Development of electronic nose (Shrimp-Nose) for the determination of perishable quality and shelf-life of cultured Pacific white shrimp (<i>Litopenaeus Vannamei</i>). <i>Sensors and Actuators B: Chemical</i> , 2020 , 317, 128192	8.5	11
249	Growth of TiMoO_3 Golf Ball Architectures with Interlocking Loops for Selective Probing of Trimethylamine at Room Temperature. <i>Materials Research Bulletin</i> , 2020 , 130, 110944	5.1	7
248	Hybrid Random Number Generation Architecture for Mobile Registration Controller: A Reconfigurable Hardware Realization. <i>Wireless Personal Communications</i> , 2020 , 115, 239-266	1.9	
247	Activation of edge plane pyrolytic graphite in screen printed carbon electrodes on OHP sheet, Whatman paper and textile substrates. <i>Journal of Applied Electrochemistry</i> , 2020 , 50, 559-567	2.6	2
246	Electrochemical Detection of Imidacloprid Using Cu-rGO Composite Nanofibers Modified Glassy Carbon Electrode. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020 , 104, 449-454	2.7	7
245	A Multiple Approach Combined with Portable Electronic Nose for Assessment of Post-harvest Sapota Contamination by Foodborne Pathogens. <i>Food and Bioprocess Technology</i> , 2020 , 13, 1193-1205	5.1	5

244	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	4.3	16
243	Fabrication of Biobased Hydrophobic Hybrid Cotton Fabrics Using Molecular Self-Assembly: Applications in the Development of Gas Sensor Fabrics. <i>ACS Omega</i> , 2020 , 5, 3839-3848	3.9	3
242	Con(dif)fused voice to convey secret: a dual-domain approach. <i>Multimedia Systems</i> , 2020 , 26, 301-311	2.2	5
241	A photoluminescence biosensor for the detection of N-acyl homoserine lactone using cysteamine functionalized ZnO nanoparticles for the early diagnosis of urinary tract infections. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 4228-4236	7.3	9
240	A high payload separable reversible data hiding in cipher image with good decipher image quality. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 6403-6414	1.6	4
239	LFSR-Keyed MUX for Random Number Generation in Nano Communication Using QCA. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2020 , 70-83	0.3	
238	Surface Modification of Textiles with Nanomaterials for Flexible Electronics Applications 2020 , 1-42		
237	ALRC: A Novel Adaptive Linear Regression Based Classification for Grade based Student Learning using Radio Frequency Identification. <i>Wireless Personal Communications</i> , 2020 , 112, 2091-2107	1.9	2
236	Ring oscillator as confusion & diffusion agent: a complete TRNG drove image security. <i>IET Image Processing</i> , 2020 , 14, 2987-2997	1.7	32
235	Image encryption through RNA approach assisted with neural key sequences. <i>Multimedia Tools and Applications</i> , 2020 , 79, 12093-12124	2.5	4
234	Room-temperature gas sensing of laser-modified anatase TiO ₂ decorated with Au nanoparticles. <i>Applied Surface Science</i> , 2020 , 507, 145169	6.7	38
233	S,N-GQDs Enzyme Mimicked Electrochemical Sensor to Detect the Hazardous Level of Monocrotophos in Water. <i>Electroanalysis</i> , 2020 , 32, 971-977	3	1
232	Hopfield attractor-trusted neural network: an attack-resistant image encryption. <i>Neural Computing and Applications</i> , 2020 , 32, 11477-11489	4.8	30
231	Self-assembled sugar-based copper nanoparticles as trimethylamine sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 1594-1603	2.1	2
230	A non-enzymatic electrochemical biosensor for the detection of formalin levels in fishes: Realization of a novel comparator effect based on electrolyte. <i>Analytica Chimica Acta</i> , 2020 , 1139, 50-58	6.6	2
229	Green preparation of reduced graphene oxide by Bougainvillea glabra flower extract and sensing application. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 14345-14356	2.1	5
228	Investigations on room temperature dual sensitization of ZnO nanostructures towards fish quality biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127082	8.5	15
227	Electrochemical Biosensors with Nanointerface for Food, Water Quality, and Healthcare Applications 2019 , 431-468		2

226	Freshness Assessment of Broccoli using Electronic Nose. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 145, 735-743	4.6	23
225	Application of ATR-FTIR for a rapid evaluation of storage life of fresh dwarf copperleaf via its moisture content. <i>Food Packaging and Shelf Life</i> , 2019 , 21, 100343	8.2	1
224	Tamper-Resistant Secure Medical Image Carrier: An IWTBVD-Chaos-EPGA Combination. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 9561-9580	2.5	13
223	Stalling behaviour of chloride ions: A non-enzymatic electrochemical detection of Endosulfan using CuO interface. <i>Sensors and Actuators B: Chemical</i> , 2019 , 293, 100-106	8.5	64
222	Entropy Influenced RNA Diffused Quantum Chaos to Conserve Medical Data Privacy. <i>International Journal of Theoretical Physics</i> , 2019 , 58, 1937-1956	1.1	7
221	ATR-FTIR as a versatile analytical tool for the rapid determination of storage life of fresh Agaricus bisporus via its moisture content. <i>Postharvest Biology and Technology</i> , 2019 , 154, 159-168	6.2	6
220	NiO Nanoflower Modified Cotton Fabric for UV Filter and Gas Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20045-20055	9.5	20
219	Methylglyoxal - An emerging biomarker for diabetes mellitus diagnosis and its detection methods. <i>Biosensors and Bioelectronics</i> , 2019 , 133, 107-124	11.8	29
218	Room temperature chemiresistive gas sensors: challenges and strategies—mini review. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 15825-15847	2.1	30
217	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, 17094-17106	2.1	6
216	Realization of Chaos-Based Private Multiprocessor Network Via USART of Embedded Devices 2019 , 323-340		1
215	Indicator-based lightweight steganography on 32-bit RISC architectures for IoT security. <i>Multimedia Tools and Applications</i> , 2019 , 78, 31485-31513	2.5	5
214	Highly crystalline {010} facet grown MoO ₃ nanobelts for resistive sensing of n-butanol vapor at room temperature. <i>Mikrochimica Acta</i> , 2019 , 186, 797	5.8	10
213	Different Parameter Analysis of Class-1 Generation-2 (C1G2) RFID System Using GNU Radio 2019 , 91-116		
212	Metabolic Syndrome-An Emerging Constellation of Risk Factors: Electrochemical Detection Strategies. <i>Sensors</i> , 2019 , 20,	3.8	3
211	Smart supramolecular gels of enolizable amphiphilic glycosylfuran. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 6238-6246	7.3	6
210	Functionalized Graphene Quantum Dot Interfaced Electrochemical Detection of Cardiac Troponin I: An Antibody Free Approach. <i>Scientific Reports</i> , 2019 , 9, 17348	4.9	18
209	Development of an acetone sensor using nanostructured CoO thin films for exhaled breath analysis.. <i>RSC Advances</i> , 2019 , 9, 30226-30239	3.7	25

208	Open hiding for truncating hackers - a block truncation and wavelet approach. <i>Multimedia Tools and Applications</i> , 2019 , 78, 9951-9969	2.5	
207	YRBS coding with logistic map & novel Sanskrit aphorism and chaos for image encryption. <i>Multimedia Tools and Applications</i> , 2019 , 78, 10513-10541	2.5	12
206	Encrypted Biography of Biomedical Image - a Pentlayer Cryptosystem on FPGA. <i>Journal of Signal Processing Systems</i> , 2019 , 91, 475-501	1.4	16
205	Encryption and watermark-treated medical image against hacking disease-An immune convention in spatial and frequency domains. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 159, 11-21	6.9	26
204	Nano ceria as xylene sensor Role of cerium precursor. <i>Journal of Alloys and Compounds</i> , 2018 , 753, 771-789	3.9	20
203	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	6.7	5
202	An Electronic Nose for Royal Delicious Apple Quality Assessment - A Tri-layer Approach. <i>Food Research International</i> , 2018 , 109, 44-51	7	35
201	Exploring hesperidin-copper complex as an enzyme mimic for monitoring macrophage activity. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 1893-1899	2.6	3
200	Networked hardware assisted key image and chaotic attractors for secure RGB image communication. <i>Multimedia Tools and Applications</i> , 2018 , 77, 23449-23482	2.5	20
199	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	6.7	5
198	A non-enzymatic two step catalytic reduction of methylglyoxal by nanostructured VO modified electrode. <i>Biosensors and Bioelectronics</i> , 2018 , 103, 143-150	11.8	14
197	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	4.6	1
196	Non-mutually exclusive dual role of hexamethylenetetramine on the growth of ZnO nanostructures and their sensing footprints. <i>Materials Chemistry and Physics</i> , 2018 , 212, 394-402	4.4	7
195	Transreceiving of encrypted medical image & cognitive approach. <i>Multimedia Tools and Applications</i> , 2018 , 77, 8393-8418	2.5	18
194	Lightweight chaotic image encryption algorithm for real-time embedded system: Implementation and analysis on 32-bit microcontroller. <i>Microprocessors and Microsystems</i> , 2018 , 56, 1-12	2.4	42
193	V2O5 nanofibers: Potential contestant for high performance xylene sensor. <i>Journal of Alloys and Compounds</i> , 2018 , 731, 805-812	5.7	22
192	Fluorine doped ZnO thin film as acetaldehyde sensor. <i>Semiconductor Science and Technology</i> , 2018 , 33, 095005	1.8	15
191	PANI/dO Nanocomposite Thin Films as a Room Temperature Methanol Sensor. <i>Journal of Electronic Materials</i> , 2018 , 47, 6000-6006	1.9	9

190	Networked medical data sharing on secure medium - A web publishing mode for DICOM viewer with three layer authentication. <i>Journal of Biomedical Informatics</i> , 2018 , 86, 90-105	10.2	21
189	A novel electrochemical sensor based on a nickel-metal organic framework for efficient electrocatalytic oxidation and rapid detection of lactate. <i>New Journal of Chemistry</i> , 2018 , 42, 11839-11846	2.6	21
188	Electrochemical sensing platform for the determination of arsenite and arsenate using electroactive nanocomposite electrode. <i>Chemical Engineering Journal</i> , 2018 , 351, 319-327	14.7	21
187	Chaos triggered image encryption - a reconfigurable security solution. <i>Multimedia Tools and Applications</i> , 2018 , 77, 11669-11692	2.5	15
186	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	3	5
185	Chaos assisted variable bit steganography in transform domain. <i>Electronics Letters</i> , 2018 , 54, 1332-1334	1.1	3
184	Heptazine based organic framework as a chemiresistive sensor for ammonia detection at room temperature. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18389-18395	13	34
183	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	8.5	42
182	Nanostructured ZnO on cotton fabrics: A novel flexible gas sensor & UV filter. <i>Journal of Cleaner Production</i> , 2018 , 194, 372-382	10.3	45
181	Nanotechnology-based electrochemical detection strategies for hypertension markers. <i>Biosensors and Bioelectronics</i> , 2018 , 116, 67-80	11.8	19
180	Analysis of Moisture Content in Beetroot using Fourier Transform Infrared Spectroscopy and by Principal Component Analysis. <i>Scientific Reports</i> , 2018 , 8, 7996	4.9	11
179	Amperometric determination of As(III) and Cd(II) using a platinum electrode modified with acetylcholinesterase, ruthenium(II)-tris(bipyridine) and graphene oxide. <i>Mikrochimica Acta</i> , 2018 , 185, 297	5.8	16
178	ON Chip peripherals are ON for chaos based image fused encryption. <i>Microprocessors and Microsystems</i> , 2018 , 61, 257-278	2.4	17
177	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	1.1	12
176	Hybrid image crypto system for secure image communication: A VLSI approach. <i>Microprocessors and Microsystems</i> , 2017 , 50, 1-13	2.4	19
175	Fabrication of electrochemical biosensor with vanadium pentoxide nano-interface for the detection of methylglyoxal in rice. <i>Analytical Biochemistry</i> , 2017 , 528, 19-25	3.1	7
174	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	4.4	18
173	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	4.6	3

172	Fabrication of PANI/ZnO nanocomposite thin film for room temperature methanol sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 10799-10805	2.1	13
171	Ferricyanide/reduced graphene oxide as electron mediator for the electrochemical detection of methanol in canned citrus sinensis and citrus limetta. <i>Sensors and Actuators B: Chemical</i> , 2017 , 248, 708-717	8.5	9
170	Design and Development of Acetylthiocholine Electrochemical Biosensor Based on Zinc Oxide-Cerium Oxide Nanohybrid Modified Platinum Electrode. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017 , 98, 662-671	2.7	5
169	Monomer: Design of ZnO Nanostructures (Nanobush and Nanowire) and Their Room-Temperature Ethanol Vapor Sensing Signatures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38135-38145	9.5	45
168	A framework for analysing E-Nose data based on fuzzy set multiple linear regression: Paddy quality assessment. <i>Sensors and Actuators A: Physical</i> , 2017 , 267, 200-209	3.9	20
167	Tamper Proofing Identification and Authenticated DICOM Image Transmission Using Wireless Channels and CR Network. <i>Wireless Personal Communications</i> , 2017 , 97, 5573-5595	1.9	5
166	Developments in Electronic Noses for Quality and Safety Control 2017 , 63-96		5
165	Room temperature ethanol sensing properties of ZnO nanorods prepared using an electrospinning technique. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10869-10880	7.1	50
164	Non-enzymatic detection of glucose in fruits using TiO ₂ /Mn ₃ O ₄ hybrid nano interface. <i>Applied Nanoscience (Switzerland)</i> , 2017 , 7, 309-316	3.3	6
163	Implementation of extended Kalman filter-based simultaneous localization and mapping: a point feature approach. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2017 , 42, 1495-1504	1	3
162	A low power ammonia sensor node embedded with a light weight non-linear analytics. <i>Sensors and Actuators A: Physical</i> , 2017 , 263, 357-362	3.9	6
161	Simultaneous electrochemical detection of Cd(II), Pb(II), As(III) and Hg(II) ions using ruthenium(II)-textured graphene oxide nanocomposite. <i>Talanta</i> , 2017 , 162, 574-582	6.2	78
160	Fusion of confusion and diffusion: a novel image encryption approach. <i>Telecommunication Systems</i> , 2017 , 65, 65-78	2.3	19
159	Design and development of electrochemical biosensor for the simultaneous detection of melamine and urea in adulterated milk samples. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 1283-1292	8.5	44
158	Fabrication of mediator-free hybrid nano-interfaced electrochemical biosensor for monitoring cancer cell proliferation. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 832-841	11.8	22
157	DNA Chaos Blend to Secure Medical Privacy. <i>IEEE Transactions on Nanobioscience</i> , 2017 , 16, 850-858	3.4	95
156	Enzyme-free monitoring of glucose utilization in stimulated macrophages using carbon nanotube-decorated electrochemical sensor. <i>Applied Nanoscience (Switzerland)</i> , 2017 , 7, 773-780	3.3	3
155	ZnO nanoarchitectures: Ultrahigh sensitive room temperature acetaldehyde sensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 343-351	8.5	58

154	Nano interfaced biosensor for detection of choline in triple negative breast cancer cells. <i>Journal of Colloid and Interface Science</i> , 2016 , 462, 334-40	9.3	23
153	Tuning selectivity through cobalt doping in spray pyrolysis deposited ZnO thin films. <i>Ceramics International</i> , 2016 , 42, 1408-1415	5.1	28
152	A Room Temperature Methanol Vapour Sensor Based on Polyaniline Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 8315-8321	1.3	16
151	Racetrack Effect on the Dissimilar Sensing Response of ZnO Thin Film-An Anisotropy of Isotropy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24924-32	9.5	32
150	Simultaneous detection of pentachlorophenol and 2,3,7,8-tetrachlorodibenzodioxin in guar gum in electrochemical approach. <i>Journal of Applied Electrochemistry</i> , 2016 , 46, 309-322	2.6	3
149	Zinc oxide surface: a versatile nanoplatform for solvent-free synthesis of diverse isatin derivatives. <i>Tetrahedron Letters</i> , 2016 , 57, 3472-3475	2	18
148	Effective Ammonia Detection Using n-ZnO/p-NiO Heterostructured Nanofibers. <i>IEEE Sensors Journal</i> , 2016 , 16, 2477-2483	4	110
147	Multiplexed stego path on reconfigurable hardware: A novel random approach. <i>Computers and Electrical Engineering</i> , 2016 , 55, 153-163	4.3	5
146	Chaos based crossover and mutation for securing DICOM image. <i>Computers in Biology and Medicine</i> , 2016 , 72, 170-84	7	127
145	Estimation of methylglyoxal in cow milk in accurate electrochemical response time based approach. <i>Analytical Methods</i> , 2016 , 8, 2207-2217	3.2	9
144	Determination of Putrescine in Tiger Prawn Using an Amperometric Biosensor Based on Immobilization of Diamine Oxidase onto Ceria Nanospheres. <i>Food and Bioprocess Technology</i> , 2016 , 9, 717-724	5.1	11
143	Simultaneous detection of monocrotophos and dichlorvos in orange samples using acetylcholinesterase zinc oxide modified platinum electrode with linear regression calibration. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 306-313	8.5	25
142	Substrate Temperature Effects on Room Temperature Sensing Properties of Nanostructured ZnO Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 489-96	1.3	4
141	Electrochemical acetylcholinesterase biosensor based on ZnO nanocuboids modified platinum electrode for the detection of carbosulfan in rice. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 1070-7	11.8	62
140	Evaluation of Inhibition Efficiency for the Detection of Captan, 2,3,7,8-Tetrachlorodibenzodioxin, Pentachlorophenol and Carbosulfan in Water: An Electrochemical Approach. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016 , 96, 217-23	2.7	6
139	Logistic and Standard Coupled Mapping on Pre and Post Shuffled Images: A Method of Image Encryption. <i>Asian Journal of Scientific Research</i> , 2016 , 10, 10-23	0.3	2
138	Horse DNA Runs on Image: A Novel Road to Image Encryption. <i>Research Journal of Information Technology</i> , 2016 , 8, 1-9		4
137	Image Merger Encryptor: A Chaotic and Chebyshev Key Approach. <i>Research Journal of Information Technology</i> , 2016 , 8, 10-16		1

136	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	5.7	66
135	Electrocatalytic nanocauliflower structured fluorine doped CdO thin film as a potential arsenic sensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 234, 426-434	8.5	20
134	Calcium carbide in mangoes: an electrochemical way for detection. <i>Analytical Methods</i> , 2016 , 8, 4590-4599	3.2	8
133	Nanostructured Cerium-doped ZnO thin film as a breath sensor. <i>Ceramics International</i> , 2016 , 42, 18289-18295	3.1	34
132	Selective recognition of hydrogen sulfide using template and catalyst free grown ZnO nanorods. <i>RSC Advances</i> , 2015 , 5, 54952-54962	3.7	26
131	Triple chaotic image scrambling on RGB - a random image encryption approach. <i>Security and Communication Networks</i> , 2015 , 8, 3335-3345	1.9	30
130	Highly selective acetaldehyde sensor using sol-gel dip coated nano crystalline TiO ₂ thin film. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5135-5139	2.1	15
129	Medical data sheet in safe havens - A tri-layer cryptic solution. <i>Computers in Biology and Medicine</i> , 2015 , 62, 264-76	7	49
128	A review on detection of heavy metal ions in water - An electrochemical approach. <i>Sensors and Actuators B: Chemical</i> , 2015 , 213, 515-533	8.5	583
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