

John Bosco Balaguru Rayappan

List of Publications by Citations

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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	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
278	Electronic noses for food quality: A review. <i>Journal of Food Engineering</i> , 2015 , 144, 103-111	6	458
277	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	8.5	170
276	Chaos based crossover and mutation for securing DICOM image. <i>Computers in Biology and Medicine</i> , 2016 , 72, 170-84	7	127
275	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	3.1	111
274	Effective Ammonia Detection Using n-ZnO/p-NiO Heterostructured Nanofibers. <i>IEEE Sensors Journal</i> , 2016 , 16, 2477-2483	4	110
273	An intelligent chaotic embedding approach to enhance stego-image quality. <i>Information Sciences</i> , 2012 , 193, 115-124	7.7	99
272	DNA Chaos Blend to Secure Medical Privacy. <i>IEEE Transactions on Nanobioscience</i> , 2017 , 16, 850-858	3.4	95
271	Selective detection of ammonia using spray pyrolysis deposited pure and nickel doped ZnO thin films. <i>Applied Surface Science</i> , 2014 , 311, 405-412	6.7	90
270	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	8.5	85
269	A highly sensitive humidity sensor based on DC reactive magnetron sputtered zinc oxide thin film. <i>Sensors and Actuators A: Physical</i> , 2010 , 164, 8-14	3.9	80
268	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
267	Synthesis and Characterization of Cerium Oxide Nanoparticles by Hydroxide Mediated Approach. <i>Journal of Applied Sciences</i> , 2012 , 12, 1734-1737	0.3	72
266	Survey and Analysis of Hardware Cryptographic and Steganographic Systems on FPGA. <i>Journal of Applied Sciences</i> , 2012 , 12, 201-210	0.3	71
265	Structural, morphological, electrical and vapour sensing properties of Mn doped nanostructured ZnO thin films. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 624-631	8.5	70
264	Random Image Steganography and Steganalysis: Present Status and Future Directions. <i>Information Technology Journal</i> , 2012 , 11, 566-576	0.7	68
263	CO ₂ gas sensing properties of DC reactive magnetron sputtered ZnO thin film. <i>Ceramics International</i> , 2014 , 40, 13115-13122	5.1	67

262	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
261	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	8.5	65
260	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
259	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	5.7	64
258	OFDM+CDMA+Stego = Secure Communication: A Review. <i>Research Journal of Information Technology</i> , 2012 , 4, 31-46		64
257	Fabrication of lactate biosensor based on lactate dehydrogenase immobilized on cerium oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2013 , 410, 158-64	9.3	63
256	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
255	Brownian Motion of Binary and Gray-Binary and Gray Bits in Image for Stego. <i>Journal of Applied Sciences</i> , 2012 , 12, 428-439	0.3	62
254	Inverted Pattern in Inverted Time Domain for Icon Steganography. <i>Information Technology Journal</i> , 2012 , 11, 587-595	0.7	60
253	Pixel Forefinger for Gray in Color: A Layer by Layer Stego. <i>Information Technology Journal</i> , 2011 , 11, 9-19	0.7	60
252	ZnO nanoarchitectures: Ultrahigh sensitive room temperature acetaldehyde sensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 343-351	8.5	58
251	Pixel Authorized by Pixel to Trace with SFC on Image to Sabotage Data Muggers: A Comparative Study on PI Stego. <i>Research Journal of Information Technology</i> , 2012 , 4, 124-139		58
250	Firmware for Data Security: A Review. <i>Research Journal of Information Technology</i> , 2012 , 4, 61-72		55
249	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
248	Medical data sheet in safe havens - A tri-layer cryptic solution. <i>Computers in Biology and Medicine</i> , 2015 , 62, 264-76	7	49
247	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
246	Regulated OFDM-Role of ECC and ANN: A Review. <i>Journal of Applied Sciences</i> , 2012 , 12, 301-314	0.3	45
245	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

244	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	6	44
243	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
242	Nanostructured flower like V2O5 thin films and its room temperature sensing characteristics. <i>Ceramics International</i> , 2015 , 41, 2221-2227	5.1	42
241	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
240	A novel nano-interfaced superoxide biosensor. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 884-892	8.5	42
239	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
238	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	5.1	41
237	An electrochemical biosensor with nanointerface for lactate detection based on lactate dehydrogenase immobilized on zinc oxide nanorods. <i>Journal of Colloid and Interface Science</i> , 2014 , 414, 90-6	9.3	41
236	Phase for Face saving-a multicarrier Stego. <i>Procedia Engineering</i> , 2012 , 30, 790-797		40
235	Steganography-Time to Time: A Review. <i>Research Journal of Information Technology</i> , 2013 , 5, 53-66		39
234	Facile synthesis of ZnO nanostructures by spray pyrolysis technique and its application as highly selective H2S sensor. <i>Materials Letters</i> , 2015 , 158, 373-376	3.3	38
233	Room-temperature gas sensing of laser-modified anatase TiO2 decorated with Au nanoparticles. <i>Applied Surface Science</i> , 2020 , 507, 145169	6.7	38
232	Hydrogen peroxide biosensor utilizing a hybrid nano-interface of iron oxide nanoparticles and carbon nanotubes to assess the quality of milk. <i>Sensors and Actuators B: Chemical</i> , 2015 , 215, 166-173	8.5	37
231	An Electronic Nose for Royal Delicious Apple Quality Assessment - A Tri-layer Approach. <i>Food Research International</i> , 2018 , 109, 44-51	7	35
230	Influence of precursor concentration on structural, morphological and electrical properties of spray deposited ZnO thin films. <i>Crystal Research and Technology</i> , 2011 , 46, 685-690	1.3	35
229	Nanostructured mixed ZnO and CdO thin film for selective ethanol sensing. <i>Materials Letters</i> , 2012 , 77, 117-120	3.3	34
228	Nanostructured Cerium-doped ZnO thin film as a breath sensor. <i>Ceramics International</i> , 2016 , 42, 18289-18295	5.2	34
227	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

226	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
225	Development of electrochemical biosensor with nano-interface for xanthine sensing--a novel approach for fish freshness estimation. <i>Food Chemistry</i> , 2013 , 139, 963-9	8.5	32
224	Ring oscillator as confusion & diffusion agent: a complete TRNG drove image security. <i>IET Image Processing</i> , 2020 , 14, 2987-2997	1.7	32
223	Triple chaotic image scrambling on RGB - a random image encryption approach. <i>Security and Communication Networks</i> , 2015 , 8, 3335-3345	1.9	30
222	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
221	Horse Riding & Hiding in Image for Data Guarding. <i>Procedia Engineering</i> , 2012 , 30, 36-44		30
220	Nanostructured ceria thin film for ethanol and trimethylamine sensing. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 19-26	8.5	30
219	Nanostructured ZnO thin film for hydrogen peroxide sensing. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 43, 1804-1808	3	30
218	Hopfield attractor-trusted neural network: an attack-resistant image encryption. <i>Neural Computing and Applications</i> , 2020 , 32, 11477-11489	4.8	30
217	Methylglyoxal - An emerging biomarker for diabetes mellitus diagnosis and its detection methods. <i>Biosensors and Bioelectronics</i> , 2019 , 133, 107-124	11.8	29
216	Fast classification of meat spoilage markers using nanostructured ZnO thin films and unsupervised feature learning. <i>Sensors</i> , 2013 , 13, 1578-92	3.8	29
215	Tuning selectivity through cobalt doping in spray pyrolysis deposited ZnO thin films. <i>Ceramics International</i> , 2016 , 42, 1408-1415	5.1	28
214	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, 52-8	9.3	28
213	Selective recognition of hydrogen sulfide using template and catalyst free grown ZnO nanorods. <i>RSC Advances</i> , 2015 , 5, 54952-54962	3.7	26
212	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
211	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
210	A simple and template free synthesis of branched ZnO nanoarchitectures for sensor applications. <i>RSC Advances</i> , 2014 , 4, 64075-64084	3.7	25
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	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
207	Freshness Assessment of Broccoli using Electronic Nose. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 145, 735-743	4.6	23
206	V2O5 nanofibers: Potential contestant for high performance xylene sensor. <i>Journal of Alloys and Compounds</i> , 2018 , 731, 805-812	5.7	22
205	Solvent volume driven ZnO nanopetals thin films: Spray pyrolysis. <i>Materials Letters</i> , 2014 , 134, 47-50	3.3	22
204	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
203	Electrochemical enzymeless detection of superoxide employing naringin-copper decorated electrodes. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 134-9	11.8	22
202	Development and evaluation of a highly sensitive rapid response enzymatic nanointerfaced biosensor for detection of putrescine. <i>Analyst, The</i> , 2011 , 136, 5234-40	5	22
201	Evaluation of the Chemical Composition and Anti Nutritional Factors Levels of Different Thermally Processed Soybeans. <i>Research Journal of Information Technology</i> , 2012 , 4, 220-227		22
200	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
199	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
198	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
197	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
196	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
195	Nano ceria as xylene sensor Role of cerium precursor. <i>Journal of Alloys and Compounds</i> , 2018 , 753, 771-789	3.9	20
194	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
193	Impact of annealing duration on spray pyrolysis deposited nanostructured zinc oxide thin films. <i>Superlattices and Microstructures</i> , 2014 , 67, 82-87	2.8	20
192	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
191	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

190	Hybrid image crypto system for secure image communication—A VLSI approach. <i>Microprocessors and Microsystems</i> , 2017 , 50, 1-13	2.4	19
189	Pixel scattering matrix formalism for image encryption—A key scheduled substitution and diffusion approach. <i>AEU - International Journal of Electronics and Communications</i> , 2015 , 69, 562-572	2.8	19
188	Fusion of confusion and diffusion: a novel image encryption approach. <i>Telecommunication Systems</i> , 2017 , 65, 65-78	2.3	19
187	Nanotechnology-based electrochemical detection strategies for hypertension markers. <i>Biosensors and Bioelectronics</i> , 2018 , 116, 67-80	11.8	19
186	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
185	Transreceiving of encrypted medical image —a cognitive approach. <i>Multimedia Tools and Applications</i> , 2018 , 77, 8393-8418	2.5	18
184	Zinc oxide surface: a versatile nanoplatform for solvent-free synthesis of diverse isatin derivatives. <i>Tetrahedron Letters</i> , 2016 , 57, 3472-3475	2	18
183	Pixel Indicated Triple Layer: A Way for Random Image Steganography. <i>Research Journal of Information Technology</i> , 2013 , 5, 87-99		18
182	Stego in Multicarrier: A Phase Hidden Communication. <i>Information Technology Journal</i> , 2014 , 13, 2011-2016		18
181	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
180	Electrospun tailored ZnO nanostructures —role of chloride ions. <i>RSC Advances</i> , 2015 , 5, 85363-85372	3.7	17
179	ZnO Nanospheres to Nanorods —Morphology Transition via Fe-doping. <i>Superlattices and Microstructures</i> , 2013 , 62, 39-46	2.8	17
178	Lipase immobilized on nanostructured cerium oxide thin film coated on transparent conducting oxide electrode for butyryl sensing. <i>Materials Chemistry and Physics</i> , 2013 , 137, 892-897	4.4	17
177	Tri-layer stego for enhanced security - a keyless random approach 2009 ,		17
176	Reversible Steganography on OFDM Channel: A Role of Cyclic Codes. <i>Information Technology Journal</i> , 2014 , 13, 2047-2051	0.7	17
175	Purposeful Error on OFDM: A Secret Channel. <i>Information Technology Journal</i> , 2014 , 13, 1985-1991	0.7	17
174	Mind Game for Cover Steganography: A Refuge. <i>Research Journal of Information Technology</i> , 2013 , 5, 137-148		17
173	Fabrication of screen-printed electrodes: opportunities and challenges. <i>Journal of Materials Science</i> , 2021 , 56, 8951-9006	4.3	17

172	ON Chip peripherals are ON for chaos in image fused encryption. <i>Microprocessors and Microsystems</i> , 2018 , 61, 257-278	2.4	17
171	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
170	A Room Temperature Methanol Vapour Sensor Based on Polyaniline Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 8315-8321	1.3	16
169	Pixel Indicated User Indicator: A Muxed Stego. <i>Research Journal of Information Technology</i> , 2013 , 5, 73-86		16
168	Encrypted Biography of Biomedical Image - a Pentlayer Cryptosystem on FPGA. <i>Journal of Signal Processing Systems</i> , 2019 , 91, 475-501	1.4	16
167	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
166	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
165	Fluorine doped ZnO thin film as acetaldehyde sensor. <i>Semiconductor Science and Technology</i> , 2018 , 33, 095005	1.8	15
164	Wave (let) decide choosy pixel embedding for stego 2011 ,		15
163	A novel nanostructured iron oxide-gold bioelectrode for hydrogen peroxide sensing. <i>Nanotechnology</i> , 2011 , 22, 265505	3.4	15
162	Synthesis and Characterization of Kapok Fibers and its Composites. <i>Journal of Applied Sciences</i> , 2012 , 12, 1661-1665	0.3	15
161	Chaos triggered image encryption - a reconfigurable security solution. <i>Multimedia Tools and Applications</i> , 2018 , 77, 11669-11692	2.5	15
160	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
159	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
158	Humming Bird with Coloured Wings: A Feedback Security Approach. <i>Information Technology Journal</i> , 2014 , 13, 2022-2026	0.7	14
157	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
156	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
155	Tamper-Resistant Secure Medical Image Carrier: An IWTBVD-Chaos-FPGA Combination. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 9561-9580	2.5	13

154	Steg-OFDM blend for highly secure multi-user communication 2011 ,		13
153	Wavelet Pave the Trio Travel for a Secret Mission [A Stego Vision. <i>Communications in Computer and Information Science</i> , 2012 , 212-221	0.3	13
152	Zinc oxide nanoparticles-based electrochemical sensor for the detection of nitrate ions in water with a low detection limit[chemometric approach. <i>Journal of Analytical Chemistry</i> , 2017 , 72, 316-326	1.1	12
151	Cyclic voltammetric acetylcholinesterase biosensor for the detection of captan in apple samples with the aid of chemometrics. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 4863-8	4.4	12
150	Captivating CODEC Stego (CCS): A Cover on Camouflage. <i>Research Journal of Information Technology</i> , 2013 , 5, 160-170		12
149	YRBS coding with logistic map [a novel Sanskrit aphorism and chaos for image encryption. <i>Multimedia Tools and Applications</i> , 2019 , 78, 10513-10541	2.5	12
148	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
147	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
146	Synthesis, Characterization and Adsorption Capability of MOF-5. <i>Asian Journal of Scientific Research</i> , 2012 , 5, 247-254	0.3	11
145	Metal Organic Framework (MOF-5) For Sensing of Volatile Organic Compounds. <i>Journal of Applied Sciences</i> , 2012 , 12, 1681-1685	0.3	11
144	Synthesis and Characterization of MOF-199: A Potential Sensing Material. <i>Journal of Applied Sciences</i> , 2012 , 12, 1778-1780	0.3	11
143	Optimum Pixel and Bit location for Colour Image Stego- A Distortion Resistant Approach. <i>International Journal of Computer Applications</i> , 2010 , 10, 17-24	1.1	11
142	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
141	Highly crystalline {010} facet grown [MoO nanobelts for resistive sensing of n-butanol vapor at room temperature. <i>Mikrochimica Acta</i> , 2019 , 186, 797	5.8	10
140	ETHANOL AND TRIMETHYL AMINE SENSING BY ZnO-BASED NANOSTRUCTURED THIN FILMS. <i>International Journal of Nanoscience</i> , 2011 , 10, 1161-1165	0.6	10
139	Thermal properties of 1T-TaS ₂ at the onset of charge density wave states. <i>Physica B: Condensed Matter</i> , 2010 , 405, 3172-3175	2.8	10
138	Spray Deposited Nanostructured Zinc Oxide Thin Film as Room Temperature Ethanol Sensor[Role of Annealing. <i>Sensor Letters</i> , 2013 , 11, 1956-1959	0.9	10
137	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

136	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
135	Estimation of methylglyoxal in cow milk [An accurate electrochemical response time based approach. <i>Analytical Methods</i> , 2016 , 8, 2207-2217	3.2	9
134	PANI/ZnO Nanocomposite Thin Films as a Room Temperature Methanol Sensor. <i>Journal of Electronic Materials</i> , 2018 , 47, 6000-6006	1.9	9
133	Stego on FPGA: an IWT approach. <i>Scientific World Journal, The</i> , 2014 , 2014, 192512	2.2	9
132	"Nano": An Emerging Avenue in Electrochemical Detection of Neurotransmitters. <i>ACS Chemical Neuroscience</i> , 2020 , 11, 4024-4047	5.7	8
131	Covered CDMA multi-user writing on spatially divided image 2011 ,		8
130	Thickness Dependent Room Temperature Sensing Properties of Spray Pyrolysis Deposited Nanostructured ZnO Thin Films. <i>Nanoscience and Nanotechnology Letters</i> , 2015 , 7, 885-891	0.8	8
129	Influence of pH on Structural Morphology of ZnO Nanoparticle. <i>Journal of Applied Sciences</i> , 2012 , 12, 1758-1761	0.3	8
128	OFDM with Low PAPR: A Novel Role of Partial Transmit Sequence. <i>Research Journal of Information Technology</i> , 2013 , 5, 35-44		8
127	Galois Field Proficient Product for Secure Image Encryption on FPGA. <i>Research Journal of Information Technology</i> , 2014 , 6, 308-324		8
126	Logic Elements Consumption Analysis of Cellular Automata Based Image Encryption on FPGA. <i>Research Journal of Information Technology</i> , 2014 , 6, 291-307		8
125	Calcium carbide in mangoes: an electrochemical way for detection. <i>Analytical Methods</i> , 2016 , 8, 4590-4599	3.2	8
124	Neural-assisted image-dependent encryption scheme for medical image cloud storage. <i>Neural Computing and Applications</i> , 2021 , 33, 6671-6684	4.8	8
123	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
122	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
121	Growth of BiMoO 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
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