

Uda Hashim

List of Publications by Citations

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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.

380
papers

4,636
citations

36
h-index

53
g-index

513
ext. papers

5,503
ext. citations

2.8
avg, IF

5.8
L-index

#	Paper	IF	Citations
380	Review of the synthesis, transfer, characterization and growth mechanisms of single and multilayer graphene. <i>RSC Advances</i> , 2017 , 7, 15644-15693	3.7	193
379	Sol-gel synthesized zinc oxide nanorods and their structural and optical investigation for optoelectronic application. <i>Nanoscale Research Letters</i> , 2014 , 9, 429	5	136
378	Functionalized fullerene (C ₆₀) as a potential nanomediator in the fabrication of highly sensitive biosensors. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 354-364	11.8	129
377	Diagnostics on acute myocardial infarction: Cardiac troponin biomarkers. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 209-20	11.8	126
376	Electrical detection of dengue virus (DENV) DNA oligomer using silicon nanowire biosensor with novel molecular gate control. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 106-14	11.8	81
375	Biotechnological Processes in Microbial Amylase Production. <i>BioMed Research International</i> , 2017 , 2017, 1272193	3	80
374	Analysis of pork adulteration in commercial meatballs targeting porcine-specific mitochondrial cytochrome b gene by TaqMan probe real-time polymerase chain reaction. <i>Meat Science</i> , 2012 , 91, 454-9 ^{6.4}	6.4	75
373	Aptamer-based point-of-care testing. <i>Biotechnology Advances</i> , 2016 , 34, 198-208	17.8	71
372	An estimation of the energy and exergy efficiencies for the energy resources consumption in the transportation sector in Malaysia. <i>Energy Policy</i> , 2007 , 35, 4018-4026	7.2	71
371	A novel method for the synthesis of calcium carbonate (aragonite) nanoparticles from cockle shells. <i>Powder Technology</i> , 2013 , 235, 70-75	5.2	68
370	Spotted Nanoflowers. Gold-seeded Zinc Oxide Nanohybrid for Selective Bio-capture. <i>Scientific Reports</i> , 2015 , 5, 12231	4.9	68
369	Species Authentication Methods in Foods and Feeds: the Present, Past, and Future of Halal Forensics. <i>Food Analytical Methods</i> , 2012 , 5, 935-955	3.4	67
368	Structural and optical insights to enhance solar cell performance of CdS nanostructures. <i>Energy Conversion and Management</i> , 2014 , 82, 238-243	10.6	60
367	Effect of different solvents on the structural and optical properties of zinc oxide thin films for optoelectronic applications. <i>Ceramics International</i> , 2014 , 40, 753-761	5.1	59
366	An ab initio study of the electronic structure and optical properties of CdS _{1-x} Te _x alloys. <i>Solar Energy</i> , 2010 , 84, 1979-1984	6.8	57
365	Development of highly sensitive polysilicon nanogap with APTES/GOx based lab-on-chip biosensor to determine low levels of salivary glucose. <i>Sensors and Actuators A: Physical</i> , 2014 , 220, 101-111	3.9	56
364	Nanoparticle sensor for label free detection of swine DNA in mixed biological samples. <i>Nanotechnology</i> , 2011 , 22, 195503	3.4	55

363	Biotechnological Aspects and Perspective of Microbial Keratinase Production. <i>BioMed Research International</i> , 2015 , 2015, 140726	3	54
362	Polymerase chain reaction assay targeting cytochrome b gene for the detection of dog meat adulteration in meatball formulation. <i>Meat Science</i> , 2014 , 97, 404-9	6.4	53
361	Swine-Specific PCR-RFLP Assay Targeting Mitochondrial Cytochrome B Gene for Semiquantitative Detection of Pork in Commercial Meat Products. <i>Food Analytical Methods</i> , 2012 , 5, 613-623	3.4	53
360	Sol-gel synthesis of Pd doped ZnO nanorods for room temperature hydrogen sensing applications. <i>Ceramics International</i> , 2013 , 39, 6461-6466	5.1	53
359	Highly sensitive silicon nanowire biosensor with novel liquid gate control for detection of specific single-stranded DNA molecules. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 656-61	11.8	52
358	Low Temperature Annealed Zinc Oxide Nanostructured Thin Film-Based Transducers: Characterization for Sensing Applications. <i>PLoS ONE</i> , 2015 , 10, e0132755	3.7	50
357	A potentiometric indirect uric acid sensor based on ZnO nanoflakes and immobilized uricase. <i>Sensors</i> , 2012 , 12, 2787-97	3.8	47
356	Substrate-gate coupling in ZnO-FET biosensor for cardiac troponin I detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 1142-1154	8.5	46
355	Morphological, optical, and Raman characteristics of ZnO nanoflakes prepared via a sol-gel method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 143-147	1.6	46
354	Effect of Different Seed Solutions on the Morphology and Electrooptical Properties of ZnO Nanorods. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-6	3.2	45
353	Selective growth of ZnO nanorods on microgap electrodes and their applications in UV sensors. <i>Nanoscale Research Letters</i> , 2014 , 9, 29	5	42
352	Titanium Dioxide Nanoparticle-Based Interdigitated Electrodes: A Novel Current to Voltage DNA Biosensor Recognizes E. coli O157:H7. <i>PLoS ONE</i> , 2015 , 10, e0139766	3.7	42
351	Ab initio method of optical investigations of CdS 1x Te x alloys under quantum dots diameter effect. <i>Solar Energy</i> , 2015 , 115, 33-39	6.8	40
350	Gold Nanoparticle Sensor for the Visual Detection of Pork Adulteration in Meatball Formulation. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-7	3.2	38
349	Highly sensitive Escherichia coli shear horizontal surface acoustic wave biosensor with silicon dioxide nanostructures. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 146-154	11.8	37
348	Nanobiosensor for Detection and Quantification of DNA Sequences in Degraded Mixed Meats. <i>Journal of Nanomaterials</i> , 2011 , 2011, 1-11	3.2	37
347	Optical investigations of photonics lithium niobate. <i>Solar Energy</i> , 2015 , 120, 381-388	6.8	36
346	The utilization of SiNWs/AuNPs-modified indium tin oxide (ITO) in fabrication of electrochemical DNA sensor. <i>Materials Science and Engineering C</i> , 2014 , 45, 270-6	8.3	36

345	A Point-of-Care Immunosensor for Human Chorionic Gonadotropin in Clinical Urine Samples Using a Cuneated Polysilicon Nanogap Lab-on-Chip. <i>PLoS ONE</i> , 2015 , 10, e0137891	3.7	36
344	Structural and optical investigations of cadmium sulfide nanostructures for optoelectronic applications. <i>Solar Energy</i> , 2012 , 86, 3234-3240	6.8	36
343	Analysis of Pork Adulteration in Commercial Burgers Targeting Porcine-Specific Mitochondrial Cytochrome B Gene by TaqMan Probe Real-Time Polymerase Chain Reaction. <i>Food Analytical Methods</i> , 2012 , 5, 784-794	3.4	34
342	Optical investigation of nanophotonic lithium niobate-based optical waveguide. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 121, 107-116	1.9	33
341	Nanogapped impedimetric immunosensor for the detection of 16 kDa heat shock protein against Mycobacterium tuberculosis. <i>Mikrochimica Acta</i> , 2016 , 183, 2697-2703	5.8	33
340	Functionalised zinc oxide nanotube arrays as electrochemical sensors for the selective determination of glucose. <i>Micro and Nano Letters</i> , 2011 , 6, 609	0.9	33
339	A new nano-worm structure from gold-nanoparticle mediated random curving of zinc oxide nanorods. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 14-22	11.8	32
338	Nanobiosensor for the detection and quantification of pork adulteration in meatball formulation. <i>Journal of Experimental Nanoscience</i> , 2014 , 9, 152-160	1.9	31
337	Effects of reaction time on the morphological, structural, and gas sensing properties of ZnO nanostructures. <i>Materials Science in Semiconductor Processing</i> , 2014 , 18, 52-58	4.3	30
336	Impact of hydrogen concentrations on the impedance spectroscopic behavior of Pd-sensitized ZnO nanorods. <i>Nanoscale Research Letters</i> , 2013 , 8, 68	5	30
335	A Novel Disposable Biosensor Based on SiNWs/AuNPs Modified-Screen Printed Electrode for Dengue Virus DNA Oligomer Detection. <i>IEEE Sensors Journal</i> , 2015 , 15, 4420-4427	4	30
334	Canine-Specific PCR Assay Targeting Cytochrome b Gene for the Detection of Dog Meat Adulteration in Commercial Frankfurters. <i>Food Analytical Methods</i> , 2014 , 7, 234-241	3.4	29
333	Plant Diseases Detection Using Nanowire as Biosensor Transducer. <i>Advanced Materials Research</i> , 2013 , 832, 113-117	0.5	29
332	Fabrication and characterizations of Al nanoparticles doped ZnO nanostructures-based integrated electrochemical biosensor. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 857-867	5.5	28
331	Characterization of Gold-Sputtered Zinc Oxide Nanorods-a Potential Hybrid Material. <i>Nanoscale Research Letters</i> , 2016 , 11, 31	5	27
330	Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnO nanolayer. <i>Mikrochimica Acta</i> , 2017 , 184, 117-125	5.8	27
329	Embedded portable device for herb leaves recognition using image processing techniques and neural network algorithm. <i>Computers and Electronics in Agriculture</i> , 2012 , 89, 18-29	6.5	27
328	Highly selective molecular imprinted polymer (MIP) based sensor array using interdigitated electrode (IDE) platform for detection of mango ripeness. <i>Sensors and Actuators B: Chemical</i> , 2013 , 187, 434-444	8.5	27

327	Enhanced sensing of dengue virus DNA detection using O plasma treated-silicon nanowire based electrical biosensor. <i>Analytica Chimica Acta</i> , 2016 , 942, 74-85	6.6	26
326	Characterisation, analysis and optical properties of nanostructure ZnO using the sol-gel method. <i>Micro and Nano Letters</i> , 2012 , 7, 163	0.9	26
325	Gold Nanoparticle-Mediated High-Performance Enzyme-Linked Immunosorbent Assay for Detection of Tuberculosis ESAT-6 Protein. <i>Micro and Nanosystems</i> , 2017 , 8, 92-98	0.6	26
324	Thickness Dependent Nanostructural, Morphological, Optical and Impedometric Analyses of Zinc Oxide-Gold Hybrids: Nanoparticle to Thin Film. <i>PLoS ONE</i> , 2015 , 10, e0144964	3.7	25
323	Progression in sensing cardiac troponin biomarker charge transductions on semiconducting nanomaterials. <i>Analytica Chimica Acta</i> , 2016 , 935, 30-43	6.6	24
322	Further optical properties of CdX (X=S, Te) compounds under quantum dot diameter effect: Ab initio method. <i>Renewable Energy</i> , 2012 , 45, 232-236	8.1	24
321	Morphological, structural, and gas-sensing characterization of tin-doped indium oxide nanoparticles. <i>Ceramics International</i> , 2014 , 40, 1321-1328	5.1	24
320	Fabrication and Characterization of ZnO Thin Films by Sol-Gel Spin Coating Method for the Determination of Phosphate Buffer Saline Concentration. <i>Current Nanoscience</i> , 2013 , 9, 288-292	1.4	24
319	Gold nanoparticle mediated method for spatially resolved deposition of DNA on nano-gapped interdigitated electrodes, and its application to the detection of the human Papillomavirus. <i>Mikrochimica Acta</i> , 2016 , 183, 3119-3126	5.8	24
318	A portable automatic endpoint detection system for amplicons of loop mediated isothermal amplification on microfluidic compact disk platform. <i>Sensors</i> , 2015 , 15, 5376-89	3.8	23
317	Sol-gel derived ZnO nanoparticulate films for ultraviolet photodetector (UV) applications. <i>Optik</i> , 2013 , 124, 5373-5376	2.5	23
316	A direct detection of human papillomavirus 16 genomic DNA using gold nanoprobe. <i>International Journal of Biological Macromolecules</i> , 2017 , 94, 571-575	7.9	23
315	Top-Down Nanofabrication and Characterization of 20 nm Silicon Nanowires for Biosensing Applications. <i>PLoS ONE</i> , 2016 , 11, e0152318	3.7	23
314	Evolutions of bonding wires used in semiconductor electronics: perspective over 25 years. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4412-4424	2.1	22
313	Fabrication of interdigitated high-performance zinc oxide nanowire modified electrodes for glucose sensing. <i>Analytica Chimica Acta</i> , 2016 , 925, 70-81	6.6	21
312	Design, fabrication and characterization of 1.0 μ m Gap Al based interdigitated electrode for biosensors. <i>Microsystem Technologies</i> , 2017 , 23, 4501-4507	1.7	20
311	Polysilicon nanogap lab-on-chip facilitates multiplex analyses with single analyte. <i>Biosensors and Bioelectronics</i> , 2016 , 84, 44-52	11.8	20
310	Technical Barriers and Development of Cu Wirebonding in Nanoelectronics Device Packaging. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-7	3.2	20

309	Modular Architecture of a Non-Contact Pinch Actuation Micropump. <i>Sensors</i> , 2012 , 12, 12572-12587	3.8	20
308	Microfluidics Design and Fabrication for Life Sciences Application. <i>Advanced Science Letters</i> , 2013 , 19, 48-53	0.1	20
307	Sensitive pH detection on gold interdigitated electrodes as an electrochemical sensor. <i>Microsystem Technologies</i> , 2018 , 24, 1965-1974	1.7	20
306	Surface modifications to boost sensitivities of electrochemical biosensors using gold nanoparticles/silicon nanowires and response surface methodology approach. <i>Journal of Materials Science</i> , 2016 , 51, 1083-1097	4.3	19
305	Application of Gold Nanoparticles for Electrochemical DNA Biosensor. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-7	3.2	19
304	Voltammetric determination of human papillomavirus 16 DNA by using interdigitated electrodes modified with titanium dioxide nanoparticles. <i>Mikrochimica Acta</i> , 2019 , 186, 336	5.8	18
303	Sensitivity of A-549 human lung cancer cells to nanoporous zinc oxide conjugated with Photofrin. <i>Lasers in Medical Science</i> , 2012 , 27, 607-14	3.1	18
302	Human Papillomavirus E6 biosensing: Current progression on early detection strategies for cervical Cancer. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 877-890	7.9	18
301	Structural, optical and electrical investigations of Cu ₂ Zn _{1-x} CdxSn ₄ /Si quinary alloy nanostructures synthesized by spin coating technique. <i>Microsystem Technologies</i> , 2017 , 23, 2223-2232	1.7	17
300	Novel synthesis of silicon carbide nanotubes by microwave heating of blended silicon dioxide and multi-walled carbon nanotubes: The effect of the heating temperature. <i>Ceramics International</i> , 2016 , 42, 17642-17649	5.1	17
299	Extended reliability of gold and copper ball bonds in microelectronic packaging. <i>Gold Bulletin</i> , 2013 , 46, 103-115	1.6	17
298	Target ssDNA detection of E.coli O157:H7 through electrical based DNA biosensor. <i>Microsystem Technologies</i> , 2017 , 23, 5771-5780	1.7	17
297	The Electroosmosis Mechanism for Fluid Delivery in PDMS Multi-Layer Microchannel. <i>Advanced Science Letters</i> , 2013 , 19, 12-15	0.1	17
296	Fabrication and Characterization of 50 nm Silicon Nano-Gap Structures. <i>Science of Advanced Materials</i> , 2011 , 3, 233-238	2.3	17
295	Effect of annealing temperatures on the morphology, optical and electrical properties of TiO ₂ thin films synthesized by the sol-gel method and deposited on Al/TiO ₂ /SiO ₂ /p-Si. <i>Microsystem Technologies</i> , 2016 , 22, 871-881	1.7	16
294	Cell-targeting aptamers act as intracellular delivery vehicles. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 6955-69	5.7	16
293	Synthesis of Single-Walled Carbon Nanotubes: Effects of Active Metals, Catalyst Supports, and Metal Loading Percentage. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-8	3.2	16
292	Morphological, Structural, and Electrical Characterization of Sol-Gel-Synthesized ZnO Nanorods. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-7	3.2	16

291	Effect of Temperature of Oxalic Acid on the Fabrication of Porous Anodic Alumina from Al-Mn Alloys. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-8	3.2	16
290	Technology Development for Nano Structure Formation: Fabrication and Characterization. <i>Advanced Science Letters</i> , 2013 , 19, 132-137	0.1	16
289	Selection of Optimal Parameters in Fabrication of Poly(dimethylsiloxane) Microfluidics Using Taguchi Method. <i>Advanced Science Letters</i> , 2013 , 19, 32-36	0.1	16
288	Structural and impedance spectroscopy study of Al-doped ZnO nanorods grown by sol-gel method. <i>Microelectronics International</i> , 2012 , 29, 131-135	0.8	15
287	Structural, Optical, Electrical, and Photoresponse Properties of Postannealed Sn-Doped ZnO Nanorods. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-8	3.2	15
286	HIV-1 Tat biosensor: Current development and trends for early detection strategies. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 358-366	11.8	14
285	ZnO thin film deposition on butterfly shaped electrodes for ultraviolet sensing applications. <i>Optik</i> , 2013 , 124, 5961-5963	2.5	14
284	Nanobioprobe for the Determination of Pork Adulteration in Burger Formulations. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-7	3.2	14
283	Nitric acid treated multi-walled carbon nanotubes optimized by Taguchi method 2016 ,		14
282	DNA extraction on bio-chip: history and preeminence over conventional and solid-phase extraction methods. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 8077-8088	5.7	13
281	Mediatorless Impedance Studies with Titanium Dioxide Conjugated Gold Nanoparticles for Hydrogen Peroxide Detection. <i>Biosensors</i> , 2017 , 7,	5.9	13
280	Development of swine-specific DNA markers for biosensor-based halal authentication. <i>Genetics and Molecular Research</i> , 2012 , 11, 1762-72	1.2	13
279	Fabrication of gold nanorod/zinc oxide nanocomposite on gap-fingered integrated interdigitated aluminum electrodes and their response to electrolytes. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	12
278	DNA hybridization detection using less than 10-nm gap silicon nanogap structure. <i>Sensors and Actuators A: Physical</i> , 2013 , 199, 304-309	3.9	12
277	Bidirectional flow micropump based on dynamic rectification. <i>Sensors and Actuators A: Physical</i> , 2013 , 204, 107-113	3.9	12
276	Future and technical considerations of gold wirebonding in semiconductor packaging a technical review. <i>Microelectronics International</i> , 2014 , 31, 121-128	0.8	12
275	Isolation, characterization, and identification of biological control agent for potato soft rot in Bangladesh. <i>Scientific World Journal, The</i> , 2012 , 2012, 723293	2.2	12
274	Wearout Reliability and Intermetallic Compound Diffusion Kinetics of Au and PdCu Wires Used in Nanoscale Device Packaging. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-9	3.2	12

273	Effect of Manganese Content on the Fabrication of Porous Anodic Alumina. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-9	3.2	12
272	The Effects of Multiple Zincation Process on Aluminum Bond Pad Surface for Electroless Nickel Immersion Gold Deposition. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2006 , 128, 246-250		12
271	Detection of specific single-stranded DNA molecules through SiNW surface modulation. <i>Microsystem Technologies</i> , 2016 , 22, 269-273	1.7	11
270	Design and fabrication of micro-mixer with short turns angles for self-generated turbulent structures. <i>Microsystem Technologies</i> , 2016 , 22, 433-440	1.7	11
269	Effect of Hydrochloric Acid Concentration on Morphology of Polyaniline Nanofibers Synthesized by Rapid Mixing Polymerization. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-6	3.2	11
268	Au decorated ZnO thin film: application to DNA sensing. <i>Microsystem Technologies</i> , 2016 , 22, 903-910	1.7	10
267	Electrical DNA biosensor using aluminium interdigitated electrode for E.Coli O157:H7 detection 2017 ,		10
266	Reliability assessment and mechanical characterization of Cu and Au ball bonds in BGA package. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2803-2811	2.1	10
265	Reduced graphene oxide/multiwalled carbon nanotubes composites as sensing membrane electrodes for DNA detection. <i>Microsystem Technologies</i> , 2017 , 23, 3421-3428	1.7	10
264	Chalcogenide nanostructures: Topography, synthesis, properties, and applications. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 013109	2.5	10
263	A simple one-step anodising method for the synthesis of ordered porous anodic alumina. <i>Journal of Experimental Nanoscience</i> , 2014 , 9, 106-112	1.9	10
262	Study of Zinc Oxide Films on SiO ₂ /Si Substrate by Sol-Gel Spin Coating Method for pH Measurement. <i>Applied Mechanics and Materials</i> , 2013 , 284-287, 347-351	0.3	10
261	Production and characterization of silica nanoparticles from fly ash: conversion of agro-waste into resource. <i>Preparative Biochemistry and Biotechnology</i> , 2021 , 51, 86-95	2.4	10
260	Studying Effect Dimensions of Design and Simulation Silicon Nanowire Filled Effect Biosensor. <i>Applied Mechanics and Materials</i> , 2015 , 754-755, 854-858	0.3	9
259	Effects of Bonding Wires and Epoxy Molding Compound on Gold and Copper Ball Bonds Intermetallic Growth Kinetics in Electronic Packaging. <i>Journal of Electronic Materials</i> , 2014 , 43, 1017-1025	1.9	9
258	Effects of annealing temperature on current-voltage characteristics of TiO ₂ thin film by sol-gel process on silicon substrate for biosensor application 2013 ,		9
257	Voltammetric immunoassay for the human blood clotting factor IX by using nanogapped dielectrode junctions modified with gold nanoparticle-conjugated antibody. <i>Mikrochimica Acta</i> , 2017 , 184, 3739-3745	5.8	9
256	pH sensing using in house fabricated polysilicon nanoelectrode based transducer 2012 ,		9

255	Superior performance and reliability of copper wire ball bonding in laminate substrate based ball grid array. <i>Microelectronics International</i> , 2013 , 30, 169-175	0.8	9
254	Titanium dioxide-mediated resistive nanobiosensor for E. coli O157:H7. <i>Mikrochimica Acta</i> , 2020 , 187, 235	5.8	8
253	Designing probe from E6 genome region of human Papillomavirus 16 for sensing applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 1738-1746	7.9	8
252	Microfluidic-based biosensor: signal enhancement by gold nanoparticle. <i>Microsystem Technologies</i> , 2016 , 22, 2389-2395	1.7	8
251	Numerical simulation of Microfluidic devices 2012 ,		8
250	Reliability Assessment and Activation Energy Study of Au and Pd-Coated Cu Wires Post High Temperature Aging in Nanoscale Semiconductor Packaging. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2013 , 135, 0210101-210107	2	8
249	Top-Down Approach: Fabrication of Silicon Nanowires using Scanning Electron Microscope based Electron Beam Lithography Method and Inductively Coupled Plasma-Reactive Ion Etching 2010 ,		8
248	Design and process development of silicon nanowire based DNA biosensor using electron beam lithography 2008 ,		8
247	Co-ordinated split aptamer assembly and disassembly on Gold nanoparticle for functional detection of HIV-1 tat. <i>Process Biochemistry</i> , 2019 , 79, 32-39	4.8	8
246	Aptamer-based determination of ATP by using a functionalized impedimetric nanosensor and mediation by a triangular junction transducer. <i>Mikrochimica Acta</i> , 2017 , 184, 4425-4431	5.8	7
245	Area-Selective ZnO Thin Film Deposition on Variable Microgap Electrodes and Their Impact on UV Sensing. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-5	3.2	7
244	Fabrication of Lateral Polysilicon Gap of Less than 50 nm Using Conventional Lithography. <i>Journal of Nanomaterials</i> , 2011 , 2011, 1-8	3.2	7
243	Review Three Dimensional Zinc Oxide Nanostructures as an Active Site Platform for Biosensor: Recent Trend in Healthcare Diagnosis. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 137501	3.9	7
242	Fully Depletion of Advanced Silicon on Insulator MOSFETs. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2015 , 40, 182-196	10.1	6
241	Evolution and investigation of copper and gold ball bonds in extended reliability stressing. <i>Gold Bulletin</i> , 2014 , 47, 141-151	1.6	6
240	Optoelectronic properties of GaAs and AlAs under temperature effect. <i>Optik</i> , 2013 , 124, 2128-2130	2.5	6
239	Development of Interdigitated Electrode Molecular Imprinted Polymer Sensor for Monitoring Alpha Pinene Emissions from Mango Fruit. <i>Procedia Engineering</i> , 2013 , 53, 197-202		6
238	Shortening full-length aptamer by crawling base deletion [Assisted by Mfold web server application Peer review under responsibility of University of Bahrain. View all notes. <i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i> , 2017 , 23, 37-42		6

237	Deposition and characterization of ZnO thin film for FET with back gate biasing-based biosensors application 2015,		6
236	Reliability challenges of Cu wire deployment in flash memory packaging 2012,		6
235	Annealing effects on titanium dioxide films by Sol-Gel spin coating method 2013,		6
234	Nanowire Formation Using Electron Beam Lithography 2009,		6
233	Fabrication of Nanowire Using Ash Trimming Technique. <i>Advanced Materials Research</i> , 2012 , 626, 1042-1047		6
232	Fabrication and characterization of IDE ZnO thin films using sol-gel method for PBS solution measurement 2012,		6
231	Selective detection of E.coli O157:H7 bacteria DNA using electrical based aluminium interdigitated electrode biosensor 2018,		6
230	An electrochemical DNA biosensor based gold-thiolate conjugation utilizing ruthenium complex [Ru(dppz) ₂ (qtpy)]Cl ₂ . <i>Microsystem Technologies</i> , 2017 , 23, 1237-1245	1.7	5
229	Immunosensor development formatting for tungro disease detection using nano-gold antibody particles application 2017,		5
228	Solar cell using sensitizer extracted from organic substances 2014,		5
227	pH Measurement using in house fabricated interdigitated capacitive transducer 2013,		5
226	Oxidation functionalization of multiwalled carbon nanotube by mild acid sonication 2014,		5
225	Discrete event simulation modeling for semiconductor fabrication operation 2014,		5
224	A CPW-fed 2.45 GHz wearable antenna using conductive nanomaterials for on-body applications 2014,		5
223	Effect of pH on the capacitive behavior of microgap sensor 2012,		5
222	Wearout reliability study of Cu and Au wires used in flash memory fine line BGA package 2012,		5
221	2012,		5
220	Microstructure pattern etching by reactive ion etching (RIE) for future reproductivity of nanogap biosensor 2012,		5

219	Microfluidic Photomask Design Using CAD Software for Application in Lab-On-Chip Biomedical Nanodiagnosics. <i>Advanced Materials Research</i> , 2013 , 795, 388-392	0.5	5
218	The characterization study of functionalized multi-wall carbon nanotubes purified by acid oxidation 2011 ,		5
217	Low Cost Diffuser Based Micropump Using Pinch Actuation. <i>Advanced Materials Research</i> , 2011 , 422, 397-400	0.5	5
216	Nanobiosensor for the Detection and Quantification of Specific DNA Sequences in Degraded Biological Samples. <i>IFMBE Proceedings</i> , 2011 , 384-387	0.2	5
215	Polysilicon Nanowire Fabrication as a Transducer for Fast Reaction Assays in Nano Lab-on-Chip Domain. <i>Sensor Letters</i> , 2013 , 11, 333-336	0.9	5
214	FEM modeling and simulation of a layered SAW device based on ZnO/128°YX LiNbO3 2016 ,		5
213	Interdigitated Electrodes integrated with zinc oxide nanoparticles for Cardiac Troponin I biomarker detection 2016 ,		5
212	Distinguishing normal and aggregated alpha-synuclein interaction on gold nanorod incorporated zinc oxide nanocomposite by electrochemical technique. <i>International Journal of Biological Macromolecules</i> , 2021 , 171, 217-224	7.9	5
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210	Calculation of the band structure parameter in silicon nanowires using first principle analytical method 2017 ,		4
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205	Multi-analyte validation in heterogeneous solution by ELISA. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 796-800	7.9	4
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200	Mask design for the reproducible fabrication and reliable pattern transfer for polysilicon Nanowire 2012,		4
199	Carbon nanotubes-based electrochemical biosensors 2012,		4
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197	Micropump Pattern Replication Using Printed Circuit Board (PCB) Technology. <i>Materials and Manufacturing Processes</i> , 2013 , 130522152012004	4-1	4
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185	Selectivity verification of cardiac troponin monoclonal antibodies for cardiac troponin detection by using conventional ELISA 2017,		3
184	Preparation of DNA biosensor application from fuel oil waste by functionalization and characterization of MWCNT. <i>Sensing and Bio-Sensing Research</i> , 2017 , 16, 1-5	3-3	3

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181	The impact of minority carrier lifetime and carrier concentration on the efficiency of CIGS solar cell 2014 ,		3
180	Fabrication of interdigitated electrodes (IDE [®]) by conventional photolithography technique for pH measurement using micro-gap structure 2014 ,		3
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164	Development of microstructure on polysilicon substrate by reactive ion etching (RIE) for future reproductivity of nanogap 2012 ,		3
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142	Investigating the Cherenkov light lateral distribution function for primary proton and iron nuclei in extensive air showers. <i>Physics of Particles and Nuclei Letters</i> , 2015 , 12, 751-756	0.5	2
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138	Synthesis of zinc oxide thin films prepared by sol-gel for specific bioactivity 2017 ,		2
137	Gold nano-particle based Al interdigitated electrode electrical biosensor for specific ssDNA target detection 2017 ,		2
136	Structural, Morphological and Optical Properties of Sol-Gel Derived ZnO Thin Film for UV Sensing Application. <i>Advanced Materials Research</i> , 2015 , 1109, 304-308	0.5	2
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120	The synthesis and fabrication of Titanium dioxide nanowires-based biosensor 2012 ,		2
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104	Silica and graphene mediate arsenic detection in mature rice grain by a newly patterned current-volt aptasensor. <i>Scientific Reports</i> , 2021 , 11, 14688	4.9	2
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98	The impact of different channel doping concentrations on the performance of polycrystalline silicon nanowire field-effect transistor biosensor 2018 ,		2
97	Numerical simulation of different silicon nanowire field-effect transistor channel lengths for biosensing application 2018 ,		2
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92	Detection of human immunodeficiency virus type 1 (HIV-1) Tat protein by aptamer-based biosensors 2017 ,		1
91	Preliminary assessment for DNA extraction on microfluidic channel 2017 ,		1
90	An In-House Approach for Fabrication of Poly-Silicon Nanobiosensor Using Conventional Photolithography and Etching Method. <i>Advanced Materials Research</i> , 2015 , 1109, 210-213	0.5	1
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84	A field-effect device based on an exfoliated thin film of few-layer graphene 2014 ,		1
83	The annealing temperature effect on the structure and electrical properties of titanium dioxide (TiO ₂) film deposited by reactive RF sputtering 2014 ,		1
82	Fabrication and characterization of ZnO thin film on interdigitated electrode by sol-gel spin coating method for DNA detection 2014 ,		1
81	Effect of isothermal annealing on structural, morphological, optical and electrical properties of N-type TiO ₂ thin films 2014 ,		1
80	Current Trend in Simulation: A Study Simulation of Poly-Silicon Nanowire Using COMSOL Multiphysics. <i>Advanced Materials Research</i> , 2013 , 795, 669-673	0.5	1
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76	Emulation of double gate transistor in ultra-thin body with thin buried oxide SOI MOSFETs 2013 ,		1

75	Quantitative measurement of sugar concentration using in house fabricated microgap biosensor 2013,		1
74	Surface morphological and electrical characterization of silicon nanowires (SiNWs) by conventional photolithography method 2017,		1
73	Design and simulation study of high frequency response for surface acoustic wave device by using CST software 2015,		1
72	Fabrication of PDMS Microfluidic via Room Temperature Rapid Prototyping Process. <i>Advanced Materials Research, 2015, 1109, 340-344</i>	0.5	1
71	Reactive Ion etching of TiO ₂ thin film: The impact of different gaseous 2015,		1
70	Fabrication and electrical characterization of graphene oxide as transducing channel for biosensor application 2015,		1
69	SERS-Active Nanomaterials: A New Dimension in Sensing Nucleic Acids. <i>Advanced Materials Research, 2014, 925, 490-494</i>	0.5	1
68	Study of Titanium Dioxide Thin Film by Sol-Gel Method. <i>Advanced Materials Research, 2014, 925, 278-281</i>	0.5	1
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65	Fabrication of Poly-Si Nanowire Using Conventional Photolithography Technique. <i>Advanced Materials Research, 2014, 925, 460-463</i>	0.5	1
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63	Low cost fabrication of micromixer and microchamber for microfluidic lab-on-chip 2012,		1
62	2012,		1
61	Design and analysis of a localised environment monitoring sensor system 2012,		1
60	Titanium dioxide nanowires-based interdigitated electrodes for biomedical application 2012,		1
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53	Structure and optical characterization of ZnO-Sn thin films 2011 ,		1
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45	Zinc oxide interdigitated electrode for biosensor application 2016 ,		1
44	Gate dielectric scaling in MOSFETs device 2016 ,		1
43	Interdigitated electrode (IDE) for porcine detection based on titanium dioxide (TiO ₂) thin films 2016 ,		1
42	Fabrication and characterization on reduced graphene oxide field effect transistor (RGOFET) based biosensor 2016 ,		1
41	Electrical characterization of surface modified IDE with Gold Nano particles 2016 ,		1
40	Colorimetric assay of HIV-1 Tat protein and peptide 2016 ,		1

39	Integration of IDE with ZnO nanoparticles for detection of synthetic formaldehyde liquid 2016 ,		1
38	Surface morphology of reduced graphene oxide-carbon nanotubes hybrid film for bio-sensing applications 2016 ,		1
37	Development of highly sensitive interdigitated electrodes (IDEs) with APTES/GOx based lab-on-chip biosensor to determine glucose level 2019 ,		1
36	Amino-propyltriethoxysilane Modified Heavy Metal Sensor Based on Silicon Nanowire Arrays. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 454, 012080	0.4	1
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