

Mohd Khairuddin Md Arshad

List of Publications by Year in descending order

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224
papers

2,867
citations

147801

31
h-index

214800

47
g-index

225
all docs

225
docs citations

225
times ranked

3029
citing authors

#	ARTICLE	IF	CITATIONS
1	Aptasensing nucleocapsid protein on nanodiamond assembled gold interdigitated electrodes for impedimetric SARS-CoV-2 infectious disease assessment. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113735.	10.1	49
2	Development of a Love-Wave Biosensor Based on an Analytical Model. <i>Chemosensors</i> , 2022, 10, 81.	3.6	2
3	Glycosylated biomarker sensors: advancements in prostate cancer diagnosis. <i>Chemical Communications</i> , 2021, 57, 9640-9655.	4.1	8
4	Alkalinized extraction of silica-aluminium nanocomposite from traditional Chinese joss paper: Optical characterizations. <i>Materials Chemistry and Physics</i> , 2020, 243, 122621.	4.0	6
5	Nanostructured aluminosilicate from fly ash: Potential approach in waste utilization for industrial and medical applications. <i>Journal of Cleaner Production</i> , 2020, 253, 119923.	9.3	34
6	Design and fabrication of PDMS microfluidics device for rapid and label-free DNA detection. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	6
7	Divalent ion-induced aggregation of gold nanoparticles for voltammetry Immunosensing: comparison of transducer signals in an assay for the squamous cell carcinoma antigen. <i>Mikrochimica Acta</i> , 2020, 187, 128.	5.0	14
8	Comparative Analysis on Dielectric Gold and Aluminium Triangular Junctions: Impact of Ionic Strength and Background Electrolyte by pH Variations. <i>Scientific Reports</i> , 2020, 10, 6783.	3.3	20
9	Self-assembled reduced graphene oxide nanoflakes assisted by post-sonication boosted electrical performance in gold interdigitated microelectrodes. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 345-354.	9.4	9
10	A DNA based visual and colorimetric aggregation assay for the early growth factor receptor (EGFR) mutation by using unmodified gold nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 546.	5.0	28
11	Assorted micro-scale interdigitated aluminium electrode fabrication for insensitive electrolyte evaluation: zeolite nanoparticle-mediated micro- to nano-scaled electrodes. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	41
12	Perspectives of nanobiotechnology and biomacromolecules in parkinson's disease. <i>Process Biochemistry</i> , 2019, 86, 32-39.	3.7	11
13	Techniques of impedance matching for minimal PCB channel loss at 40 GBPS signal transmission. <i>Circuit World</i> , 2019, 45, 132-140.	0.9	9
14	Aptasensing Ampicillin on Silica Substrate Gapped by Interdigitated Aluminium Electrode. <i>Micro and Nanosystems</i> , 2019, 11, 115-122.	0.6	1
15	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.	2.3	20
16	Synthesis of silicon carbide nanomaterials by microwave heating: Effect of types of carbon nanotubes. <i>Solid State Sciences</i> , 2019, 98, 106023.	3.2	9
17	Graphene-based electrochemical biosensors for monitoring noncommunicable disease biomarkers. <i>Biosensors and Bioelectronics</i> , 2019, 130, 276-292.	10.1	180
18	Gold-nanorod enhances dielectric voltammetry detection of c-reactive protein: A predictive strategy for cardiac failure. <i>Biosensors and Bioelectronics</i> , 2019, 130, 40-47.	10.1	83

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19	Multidimensional (0D-3D) nanostructures for lung cancer biomarker analysis: Comprehensive assessment on current diagnostics. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111434.	10.1	43
20	Microfluidic biochemical sensor based on circular SIWâ€DMS approach for dielectric characterization application. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2019, 29, e21801.	1.2	5
21	Gold interdigitated triple-microelectrodes for label-free prognosticative aptasensing of prostate cancer biomarker in serum. <i>Biosensors and Bioelectronics</i> , 2019, 136, 118-127.	10.1	57
22	Current and future envision on developing biosensors aided by 2D molybdenum disulfide (MoS ₂) productions. <i>Biosensors and Bioelectronics</i> , 2019, 132, 248-264.	10.1	83
23	Gold nano-urchin integrated label-free amperometric aptasensing human blood clotting factor IX: A prognosticative approach for â€œRoyal diseaseâ€. <i>Biosensors and Bioelectronics</i> , 2019, 131, 128-135.	10.1	70
24	Real Time Microwave Biochemical Sensor Based on Circular SIW Approach for Aqueous Dielectric Detection. <i>Scientific Reports</i> , 2019, 9, 5467.	3.3	51
25	Synthesis of SiC nanowhiskers by microwave heating: effect of size of graphite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 701, 012036.	0.6	0
26	Blood Biomarkers Diagnosis as Primitive Precautionary using Zinc Oxide (ZnO) modified Interdigitated Electrode (IDE). , 2019, , .		1
27	Detection of Prostate Cancer's Antigen in Sub-pico Range of Concentration using the Faradaic-mode Electrochemical Impedance Spectroscopy. , 2019, , .		1
28	Molybdenum Disulfide (MoS ₂)/Gold Nanoparticles (AuNPs)-based Field-effect Transistor for C-reactive Protein Detection: Early Diagnosis of Cardiovascular Disease. , 2019, , .		0
29	The Impact of High-k Dielectric Layers for SiNW-FET Biosensor Performance Improvement. , 2019, , .		1
30	Fabrication and Characterization of poly-Si Nanowire with Thin Film of Ni/Au Contact Pad using Conventional Photolithography. , 2019, , .		0
31	Deposited structures of reduced graphene oxide onto glass substrates influenced by solvents and cleaning reagents. , 2019, , .		0
32	Fabrication and Characterization of Back-Gate Controlled Silicon Nanowire based Field-effect pH Sensor. , 2019, , .		1
33	Fabrication and Characterization of Aluminium Interdigitated Electrodes (IDE) Hybrid with Zinc Oxide (ZnO) Nanoparticles for Detection of Cardiac Troponin I (cTnI) Biomarker. , 2019, , .		0
34	Aluminosilicate Nanocomposite on Genosensor: A Prospective Voltammetry Platform for Epidermal Growth Factor Receptor Mutant Analysis in Non-small Cell Lung Cancer. <i>Scientific Reports</i> , 2019, 9, 17013.	3.3	17
35	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.	3.7	11
36	High-performance interactive analysis of split aptamer and HIV-1 Tat on multiwall carbon nanotube-modified field-effect transistor. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 414-422.	7.5	21

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37	Current state of green reduction strategies: Solution-processed reduced graphene oxide for healthcare biodetection. <i>Materials Science and Engineering C</i> , 2019, 96, 904-914.	7.3	27
38	Photovoltaic and antimicrobial potentials of electrodeposited copper nanoparticle. <i>Biochemical Engineering Journal</i> , 2019, 142, 97-104.	3.6	24
39	Self-switching diodes as RF rectifiers: evaluation methods and current progress. <i>Bulletin of Electrical Engineering and Informatics</i> , 2019, 8, 396-404.	0.8	6
40	Characterization of reduced graphene oxide obtained from vacuum-assisted low-temperature exfoliated graphite. <i>Microsystem Technologies</i> , 2018, 24, 5007-5016.	2.0	12
41	Field-Effect Transistor-Integration with TiO ₂ Nanoparticles for Sensing of Cardiac Troponin I Biomarker. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5283-5291.	0.9	25
42	Identification of probes for biosensing dengue viral serotypes. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
43	Identification of conserved and non-served regions among 16S rRNAs for bacterial probe designing. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
44	Analysis of conserved and non-served regions in neuraminidase of influenza virus for probe designing. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
45	Conserved and non-served regions in herpes simplex viral glycoproteins for probe designing. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
46	Fabrication and characterization of aluminium interdigitated electrode hybrid with ZnO for cardiac troponin T biomarker detection. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
47	The impact of different channel doping concentrations on the performance of polycrystalline silicon nanowire field-effect transistor biosensor. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	6
48	Numerical simulation of different silicon nanowire field-effect transistor channel lengths for biosensing application. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
49	Electrical responses of dengue virus (DENV) using poly-Si nanowire array biosensor. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
50	Silicon-on-insulator FET biosensor for dengue DNA complementation. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
51	Shallow Trench Isolation Stress Effect on 45 Degree Rotated MOSFET Layout. , 2018, , .		0
52	InGaAs-based planar barrier diode as microwave rectifier. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 064101.	1.5	9
53	Effect of working power and pressure on plasma properties during the deposition of TiN films in reactive magnetron sputtering plasma measured using Langmuir probe measurement. <i>Journal of Physics: Conference Series</i> , 2018, 995, 012068.	0.4	1
54	The ZnO-FET Biosensor for Cardiac Troponin I. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 318, 012031.	0.6	5

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55	Fabrication of Cu ₂ O Nanostructured Thin Film by Anodizing. Materials Science-Poland, 2018, 36, 209-216.	1.0	4
56	Synthesis of silicon carbide nanowhiskers by microwave heating: effect of heating duration. Materials Research Express, 2017, 4, 015005.	1.6	15
57	Fabrication and characterization on width of spiral interdigitated electrodes based biosensors. AIP Conference Proceedings, 2017, , .	0.4	1
58	Improving the affinity of silicon surface for biosensor application: The interaction between multiwall carbon nanotube (MWCNT) and chitosan (CS). AIP Conference Proceedings, 2017, , .	0.4	0
59	Comparison of different methods for extraction and purification of human Papillomavirus (HPV) DNA from serum samples. AIP Conference Proceedings, 2017, , .	0.4	0
60	Frequency-based detection of female Aedes mosquito using surface acoustic wave technology: Early prevention of dengue fever. Microelectronic Engineering, 2017, 179, 83-90.	2.4	39
61	Effect of different concentration of HPV DNA probe immobilization for cervical cancer detection based IDE biosensor. AIP Conference Proceedings, 2017, , .	0.4	0
62	Study of different 3-aminopropyl triethoxysilane (APTES) concentration on TiO ₂ particles based IDE for cervical cancer detection. AIP Conference Proceedings, 2017, , .	0.4	2
63	Selectivity verification of cardiac troponin monoclonal antibodies for cardiac troponin detection by using conventional ELISA. AIP Conference Proceedings, 2017, , .	0.4	3
64	Development of gas sensing application for formaldehyde gas detection and characterization of tin dioxide. AIP Conference Proceedings, 2017, , .	0.4	0
65	Fabrication and characterization of spiral interdigitated electrodes based biosensor for salivary glucose detection. AIP Conference Proceedings, 2017, , .	0.4	0
66	Enhanced sensitivity mediated ambipolar conduction with p-type TiO ₂ anatase transducer for biomarker capturing. Sensors and Actuators A: Physical, 2017, 259, 57-67.	4.1	17
67	Micro IDEs versus Nano IDEs: Morphological and electrical characterizations. , 2017, , .		0
68	Low cost design and fabrication of PDMS microfluidics micromixers for DNA extraction. , 2017, , .		0
69	An overview of self-switching diode rectifiers using green materials. AIP Conference Proceedings, 2017, , .	0.4	7
70	Development of atmospheric pressure plasma needle jet for sterilization applications. AIP Conference Proceedings, 2017, , .	0.4	2
71	DNA extraction on bio-chip: history and preeminence over conventional and solid-phase extraction methods. Applied Microbiology and Biotechnology, 2017, 101, 8077-8088.	3.6	29
72	Characterization of zinc oxide thin film for pH detector. AIP Conference Proceedings, 2017, , .	0.4	2

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73	Characterization of difference carbon nanotubes (CNTs) as a sensing mechanism for development of formaldehyde gas detection sensor. , 2017, , .		1
74	Aptamer-based determination of ATP by using a functionalized impedimetric nanosensor and mediation by a triangular junction transducer. Mikrochimica Acta, 2017, 184, 4425-4431.	5.0	10
75	Permittivity and temperature effects on rectification performance of self-switching diodes with different geometrical structures using two-dimensional device simulator. Solid-State Electronics, 2017, 138, 16-23.	1.4	9
76	HPV DNA target hybridization concentrations studies using interdigitated electrodes (IDE) for early detection of cervical cancer. AIP Conference Proceedings, 2017, , .	0.4	0
77	The Impact of Reaction Parameters on Graphene-like Material Synthesized Using Chemical Vapour Deposition. Procedia Engineering, 2017, 184, 460-468.	1.2	4
78	Simulation of unipolar planar device with asymmetrical barrier profile: A planar barrier diode. AIP Conference Proceedings, 2017, , .	0.4	0
79	Voltammetric immunoassay for the human blood clotting factor IX by using nanogapped dielectrode junctions modified with gold nanoparticle-conjugated antibody. Mikrochimica Acta, 2017, 184, 3739-3745.	5.0	11
80	Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. Biosensors and Bioelectronics, 2017, 98, 267-284.	10.1	42
81	Zinc oxide flakes-corolla lobes like nano combined structure for SAW applications. Materials Research Bulletin, 2017, 86, 215-219.	5.2	43
82	Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnO nanolayer. Mikrochimica Acta, 2017, 184, 117-125.	5.0	32
83	Reduced graphene oxideâ€œmultiwalled carbon nanotubes composites as sensing membrane electrodes for DNA detection. Microsystem Technologies, 2017, 23, 3421-3428.	2.0	11
84	Shortening full-length aptamer by crawling base deletion â€œ Assisted by Mfold web server application. Journal of the Association of Arab Universities for Basic and Applied Sciences, 2017, 23, 37-42.	1.0	9
85	Substrate-gate coupling in ZnO-FET biosensor for cardiac troponin I detection. Sensors and Actuators B: Chemical, 2017, 242, 1142-1154.	7.8	63
86	Emergency data handling medium access control protocol for wireless body area network. , 2017, , .		1
87	Fabrication and characterization of titanium dioxide through different depositions method for detection of formaldehyde gas. , 2017, , .		0
88	FET-biosensor for cardiac troponin biomarker. EPJ Web of Conferences, 2017, 162, 01046.	0.3	5
89	Current and Potential Developments of Cortisol Aptasensing towards Point-of-Care Diagnostics (POTC). Sensors, 2017, 17, 1180.	3.8	27
90	Biotechnological Processes in Microbial Amylase Production. BioMed Research International, 2017, 2017, 1-9.	1.9	113

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91	Effective Synthesis of Silicon Carbide Nanotubes by Microwave Heating of Blended Silicon Dioxide and Multi-Walled Carbon Nanotube. <i>Materials Research</i> , 2017, 20, 1658-1668.	1.3	34
92	Different Ground Plane (GP) Architectures on 25 nm Single-Gate (SG) versus Double-Gate (DG) UTBB SOI MOSFETs from Analog and RF Perspectives. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2017, 12, 392-399.	0.5	0
93	Innovative Ground-Plane (GP) Architectures for Thin Body and Thin Buried Oxide (UTBB) Silicon-On-Insulator MOSFETs. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2017, 12, 651-660.	0.5	0
94	Effect of Heating Duration on the Synthesis of Silicon Carbide Nanotubes by Microwave Heating of MWCNTs and Silica. <i>Sains Malaysiana</i> , 2017, 46, 1069-1074.	0.5	0
95	The Impacts of Platinum Diffusion to the Reverse Recovery Lifetime of a High Power Diode Devices. <i>MATEC Web of Conferences</i> , 2016, 78, 01089.	0.2	1
96	Micro-Encapsulation of Antibiotic in Cellulose Nanoparticle Inhibits Bacteria. <i>Micro and Nanosystems</i> , 2016, 8, 41-46.	0.6	3
97	Soft lithography of microfluidics channels using SU-8 mould on glass substrate for low cost fabrication. , 2016, , .		8
98	Silicon substrate performance on morphological and electrical properties on Zinc Oxide thin films prepared via sol gel method. , 2016, , .		0
99	Numerical simulation on development of a SAW based biosensor. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
100	Gold nanoparticles mediated colorimetric assay for HIV-Tat protein detection. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
101	Design architecture of double spiral interdigitated electrode with back gate electrode for biosensor application. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
102	Design Architecture of field-effect transistor with back gate electrode for biosensor application. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
103	Zinc oxide interdigitated electrode for biosensor application. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
104	Synthesis of Porous Anodic Alumina (PAA) on Aluminum Alloy AA6061 in Mixture of Phosphoric Acid and Oxalic Acid. <i>Materials Science Forum</i> , 2016, 857, 237-241.	0.3	0
105	Gold nanoparticles embedded silicon channel biosensor for improved sensitivity. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
106	Surface morphology of titanium dioxide (TiO ₂) nanoparticles on aluminum interdigitated device electrodes (IDEs). <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
107	Integrated titanium dioxide (TiO ₂) nanoparticles on interdigitated device electrodes (IDEs) for pH analysis. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
108	Effect of annealing temperature on structural, morphological and electrical properties of nanoparticles TiO ₂ thin films by sol-gel method. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	3

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109	Green Synthesis of Silicon Carbide Nanowhiskers by Microwave Heating of Blends of Palm Kernel Shell and Silica. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012057.	0.6	8
110	Optimization of time on CF ₄ /O ₂ etchant for inductive couple plasma reactive ion etching of TiO ₂ thin film. AIP Conference Proceedings, 2016, , .	0.4	1
111	Impact of gate workfunction in junctionless versus junction SOI n-MOSFET transistor. AIP Conference Proceedings, 2016, , .	0.4	1
112	Study of nanoparticles TiO ₂ thin films on p-type silicon substrate using different alcoholic solvents. AIP Conference Proceedings, 2016, , .	0.4	0
113	Gate dielectric scaling in MOSFETs device. AIP Conference Proceedings, 2016, , .	0.4	6
114	Impact of silicon epitaxial thickness layer in high power diode devices. AIP Conference Proceedings, 2016, , .	0.4	1
115	Rectification performance of self-switching diode in various geometries using ATLAS simulator. , 2016, , .		2
116	The analog and RF device performance: Junction VS junctionless ultra-scaled SOI n-MOSFET. , 2016, , .		0
117	Rectification performance of self-switching diodes in silicon substrate using device simulator. , 2016, , .		4
118	Fabrication and characterization on reduced graphene oxide field effect transistor (RGOFET) based biosensor. AIP Conference Proceedings, 2016, , .	0.4	2
119	Synthesis of SiC nanowhiskers from graphite and silica by microwave heating. Materials Science-Poland, 2016, 34, 770-779.	1.0	6
120	Electrical detection of dengue virus (DENV) DNA oligomer using silicon nanowire biosensor with novel molecular gate control. Biosensors and Bioelectronics, 2016, 83, 106-114.	10.1	108
121	FEM modeling and simulation of a layered SAW device based on ZnO/128° YX LiNbO ₃ . , 2016, , .		8
122	Characterization of self-switching diodes as microwave rectifiers using ATLAS simulator. , 2016, , .		5
123	HIV-1 Tat peptide detection by using RNA aptamer on MWCNT modified electrode. , 2016, , .		1
124	Design and fabrication of Interdigitated Electrode (IDE) for detection of Ganoderma boninense. , 2016, , .		6
125	Numerical simulation of underlap FET device architecture for biosensor applications. , 2016, , .		0
126	The effect of substrate-gate bias on the zinc oxide field-effect transistor for biosensing application. , 2016, , .		3

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127	UTBB SOI MOSFETs with gate-source/drain underlap and ground plane (GP) structures for analog/RF applications. , 2016, , .		0
128	Impact of gate-source/drain underlap and ground plane (GP) structures towards digital FoM of 25 nm UTBB SOI MOSFETs. , 2016, , .		0
129	Colorimetric assay of HIV-1 Tat protein and peptide. , 2016, , .		1
130	Interdigitated Electrodes integrated with zinc oxide nanoparticles for Cardiac Troponin I biomarker detection. , 2016, , .		7
131	Integration of IDE with ZnO nanoparticles for detection of synthetic formaldehyde liquid. , 2016, , .		1
132	Sensitivity and selectivity of metal oxides based sensor towards detection of formaldehyde. , 2016, , .		2
133	Interdigitated electrode biosensor on graphene oxide-multiwalled carbon nanotubes for DNA detection. , 2016, , .		1
134	Surface morphology of reduced graphene oxide-carbon nanotubes hybrid film for bio-sensing applications. , 2016, , .		1
135	FET-based biosensors with back-gate coupling towards the electrical pre-amplification of cardiac troponin I detection. , 2016, , .		0
136	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.	4.8	20
137	Permittivity and temperature effects to rectification performance of self-switching device using two-dimensional simulation. , 2016, , .		5
138	Nanogapped impedimetric immunosensor for the detection of 16ÅkDa heat shock protein against <i>Mycobacterium tuberculosis</i> . <i>Mikrochimica Acta</i> , 2016, 183, 2697-2703.	5.0	43
139	Synthesis of Silicon Carbide Nanowhiskers from Graphite and Silica of Different Ratio by Microwave Irradiation Assisted Synthesis. <i>Materials Science Forum</i> , 2016, 857, 121-125.	0.3	2
140	Generation of aptamer for biosensing applications. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
141	Progression in sensing cardiac troponin biomarker charge transductions on semiconducting nanomaterials. <i>Analytica Chimica Acta</i> , 2016, 935, 30-43.	5.4	26
142	Microwave Irradiation Assisted Synthesis of Silicon Carbide Nanotubes. <i>Materials Science Forum</i> , 2016, 857, 111-115.	0.3	1
143	Cell-targeting aptamers act as intracellular delivery vehicles. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6955-6969.	3.6	19
144	HIV-1 Tat biosensor: Current development and trends for early detection strategies. <i>Biosensors and Bioelectronics</i> , 2016, 78, 358-366.	10.1	20

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145	High-performance integrated field-effect transistor-based sensors. <i>Analytica Chimica Acta</i> , 2016, 917, 1-18.	5.4	31
146	Structural, optical and electrical properties of Cu ₂ Zn _{1-x} Cd _x SnS ₄ quaternary alloys nanostructures deposited on porous silicon. <i>Microsystem Technologies</i> , 2016, 22, 2893-2900.	2.0	20
147	Top-Down Nanofabrication and Characterization of 20 nm Silicon Nanowires for Biosensing Applications. <i>PLoS ONE</i> , 2016, 11, e0152318.	2.5	31
148	Cardiac Biomarkers: Invasive to Non-invasive Assessments. <i>Current Medicinal Chemistry</i> , 2016, 23, 4270-4284.	2.4	16
149	Biacore - a surface plasmon resonance-based technology. , 2016, , 95-108.		0
150	Morphology characterization on different volume and height of MWCNT layer deposition by spray method. , 2015, , .		0
151	Electron concentration behavior in junctionless vs junction SOI n-MOSFET transistor. , 2015, , .		1
152	Comparison of deal grove model growth rate with dry thermal oxidation process for ultra-thin silicon dioxide film. , 2015, , .		1
153	Physical properties of hydrothermal growth nanostructure metal titanium dioxide. , 2015, , .		0
154	Study on chemically modified graphene platforms for biosensor applications. , 2015, , .		1
155	Biotechnological Aspects and Perspective of Microbial Keratinase Production. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	70
156	Reactive Ion etching of TiO ₂ thin film: The impact of different gaseous. , 2015, , .		3
157	Fabrication and electrical characterization of graphene oxide as transducing channel for biosensor application. , 2015, , .		1
158	Impact of silicon-body thickness on emulation of double-gate UTBB SOI MOSFETs with different ground plane structures. , 2015, , .		0
159	TiO ₂ anatase phase structure growth, morphological optical and electrical characterization by different alcoholic solvents. , 2015, , .		2
160	The effect of aluminum nanoparticle on the seebeck coefficient of biomedical thermoelectric devices. , 2015, , .		0
161	Development of effectively test chamber for SnCl ₂ gas detection sensor. , 2015, , .		2
162	Characteristics of TiO ₂ thin film with back-gate biasing for FET-based biosensors application. , 2015, , .		3

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163	Surface properties of modified nanodiamond on silicon via a spray method. , 2015, , .		0
164	Transparent mask design and fabrication of interdigitated electrodes. , 2015, , .		2
165	Low cost mask layout design for fabrication of spiral interdigitated electrodes in electrochemical biosensor application. , 2015, , .		1
166	Microwave irradiation assisted synthesis of silicon carbide nanowhiskers. , 2015, , .		0
167	Impact of high-k dielectric on the digital and analog performance on emulation of double-gate UTBB SOI MOSFETs with different ground plane structures. , 2015, , .		0
168	Real-time detection by properties of tin dioxide for formaldehyde gas sensor. , 2015, , .		5
169	Integrated of IDEs with TiO ₂ nanoparticles thin films for pH sensor. , 2015, , .		1
170	Development of a read-out circuitry for piezoresistive microcantilever electrical properties measurement. , 2015, , .		2
171	Fabrication and characterization of SAW IDT biosensor for biomolecule detection. , 2015, , .		0
172	Impact of size variation in junctionless vs junction planar SOI n-MOSFET transistor. , 2015, , .		3
173	Deposition and characterization of ZnO thin film for FET with back gate biasing-based biosensors application. , 2015, , .		7
174	Ab initio method of optical investigations of CdS ¹ Te alloys under quantum dots diameter effect. Solar Energy, 2015, 115, 33-39.	6.1	50
175	Fully Depletion of Advanced Silicon on Insulator MOSFETs. Critical Reviews in Solid State and Materials Sciences, 2015, 40, 182-196.	12.3	16
176	Diagnostics on acute myocardial infarction: Cardiac troponin biomarkers. Biosensors and Bioelectronics, 2015, 70, 209-220.	10.1	175
177	Preparation and characterization of titanium dioxide thin film for field-effect transistor biosensor application. , 2015, , .		2
178	The effect of spray volume and height to the electrical conductance of carbon nanotube layer. , 2015, , .		1
179	Development of electronic reader for formaldehyde detection sensor. , 2015, , .		4
180	Spray pyrolysis of graphene oxide for field-effect transistor biosensor application. , 2015, , .		4

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181	Fabrication of Silicon Nanowires Array Using E-beam Lithography Integrated with Microfluidic Channel for pH Sensing. Current Nanoscience, 2015, 11, 239-244.	1.2	10
182	The impact of scaled channel length in tunneling field effect transistors (TFETs)., 2014, , .		0
183	Oxidation functionalization of multiwalled carbon nanotube by mild acid sonication. , 2014, , .		10
184	Fabrication and characterization of undoped polysilicon nanowire for pH sensor. , 2014, , .		0
185	Controlling growth rate of ultra-thin Silicon Dioxide layer by incorporating nitrogen gas during dry thermal oxidation. , 2014, , .		3
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