

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	Graphene-based electrochemical biosensors for monitoring noncommunicable disease biomarkers. <i>Biosensors and Bioelectronics</i> , 2019, 130, 276-292.	10.1	180
2	Diagnostics on acute myocardial infarction: Cardiac troponin biomarkers. <i>Biosensors and Bioelectronics</i> , 2015, 70, 209-220.	10.1	175
3	Biotechnological Processes in Microbial Amylase Production. <i>BioMed Research International</i> , 2017, 2017, 1-9.	1.9	113
4	Electrical detection of dengue virus (DENV) DNA oligomer using silicon nanowire biosensor with novel molecular gate control. <i>Biosensors and Bioelectronics</i> , 2016, 83, 106-114.	10.1	108
5	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
6	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
7	Biotechnological Aspects and Perspective of Microbial Keratinase Production. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	70
8	Gold nano-urchin integrated label-free amperometric aptasensing human blood clotting factor IX: A prognosticative approach for "Royal disease". <i>Biosensors and Bioelectronics</i> , 2019, 131, 128-135.	10.1	70
9	Substrate-gate coupling in ZnO-FET biosensor for cardiac troponin I detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 1142-1154.	7.8	63
10	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
11	Real Time Microwave Biochemical Sensor Based on Circular SIW Approach for Aqueous Dielectric Detection. <i>Scientific Reports</i> , 2019, 9, 5467.	3.3	51
12	Ultra-thin body and thin-BOX SOI CMOS technology analog figures of merit. <i>Solid-State Electronics</i> , 2012, 70, 50-58.	1.4	50
13	Ab initio method of optical investigations of CdS _{1-x} Te alloys under quantum dots diameter effect. <i>Solar Energy</i> , 2015, 115, 33-39.	6.1	50
14	On the MOSFET Threshold Voltage Extraction by Transconductance and Transconductance-to-Current Ratio Change Methods: Part II "Effect of Drain Voltage. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 4180-4188.	3.0	49
15	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
16	On the MOSFET Threshold Voltage Extraction by Transconductance and Transconductance-to-Current Ratio Change Methods: Part I "Effect of Gate-Voltage-Dependent Mobility. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 4172-4179.	3.0	48
17	Impact of self-heating and substrate effects on small-signal output conductance in UTBB SOI MOSFETs. <i>Solid-State Electronics</i> , 2012, 71, 93-100.	1.4	46
18	UTBB SOI MOSFETs analog figures of merit: Effects of ground plane and asymmetric double-gate regime. <i>Solid-State Electronics</i> , 2013, 90, 56-64.	1.4	44

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19	Nanogapped impedimetric immunosensor for the detection of 16ÅkDa heat shock protein against Mycobacterium tuberculosis. <i>Mikrochimica Acta</i> , 2016, 183, 2697-2703.	5.0	43
20	Zinc oxide flakes-corolla lobes like nano combined structure for SAW applications. <i>Materials Research Bulletin</i> , 2017, 86, 215-219.	5.2	43
21	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
22	Substrate impact on threshold voltage and subthreshold slope of sub-32 nm ultra thin SOI MOSFETs with thin buried oxide and undoped channel. <i>Solid-State Electronics</i> , 2010, 54, 213-219.	1.4	42
23	Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. <i>Biosensors and Bioelectronics</i> , 2017, 98, 267-284.	10.1	42
24	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
25	Frequency-based detection of female <i>Aedes</i> mosquito using surface acoustic wave technology: Early prevention of dengue fever. <i>Microelectronic Engineering</i> , 2017, 179, 83-90.	2.4	39
26	Extended MASTAR Modeling of DIBL in UTB and UTBB SOI MOSFETs. <i>IEEE Transactions on Electron Devices</i> , 2012, 59, 247-251.	3.0	36
27	Effect of parasitic elements on UTBB FD SOI MOSFETs RF figures of merit. <i>Solid-State Electronics</i> , 2014, 97, 38-44.	1.4	36
28	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
29	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
30	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.	5.0	32
31	High-performance integrated field-effect transistor-based sensors. <i>Analytica Chimica Acta</i> , 2016, 917, 1-18.	5.4	31
32	Top-Down Nanofabrication and Characterization of 20 nm Silicon Nanowires for Biosensing Applications. <i>PLoS ONE</i> , 2016, 11, e0152318.	2.5	31
33	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.	3.6	29
34	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
35	Current and Potential Developments of Cortisol Aptasensing towards Point-of-Care Diagnostics (POTC). <i>Sensors</i> , 2017, 17, 1180.	3.8	27
36	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

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37	Progression in sensing cardiac troponin biomarker charge transductions on semiconducting nanomaterials. <i>Analytica Chimica Acta</i> , 2016, 935, 30-43.	5.4	26
38	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
39	Photovoltaic and antimicrobial potentials of electrodeposited copper nanoparticle. <i>Biochemical Engineering Journal</i> , 2019, 142, 97-104.	3.6	24
40	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
41	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
42	HIV-1 Tat biosensor: Current development and trends for early detection strategies. <i>Biosensors and Bioelectronics</i> , 2016, 78, 358-366.	10.1	20
43	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
44	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
45	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
46	FPGA Based SPWM Bridge Inverter. <i>American Journal of Applied Sciences</i> , 2007, 4, 584-586.	0.2	20
47	Cell-targeting aptamers act as intracellular delivery vehicles. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6955-6969.	3.6	19
48	On the gm/ID-based approaches for threshold voltage extraction in advanced MOSFETs and their application to ultra-thin body SOI MOSFETs. <i>Solid-State Electronics</i> , 2014, 97, 52-58.	1.4	17
49	Enhanced sensitivity mediated ambipolar conduction with p-type TiO ₂ anatase transducer for biomarker capturing. <i>Sensors and Actuators A: Physical</i> , 2017, 259, 57-67.	4.1	17
50	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
51	Fully Depletion of Advanced Silicon on Insulator MOSFETs. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2015, 40, 182-196.	12.3	16
52	Cardiac Biomarkers: Invasive to Non-invasive Assessments. <i>Current Medicinal Chemistry</i> , 2016, 23, 4270-4284.	2.4	16
53	Synthesis of silicon carbide nanowhiskers by microwave heating: effect of heating duration. <i>Materials Research Express</i> , 2017, 4, 015005.	1.6	15
54	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

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55	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.	1.8	13
56	Characterization of reduced graphene oxide obtained from vacuum-assisted low-temperature exfoliated graphite. <i>Microsystem Technologies</i> , 2018, 24, 5007-5016.	2.0	12
57	Self-heating and substrate effects in ultra-thin body ultra-thin BOX devices. , 2011, , .		11
58	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.	5.0	11
59	Reduced graphene oxide "multiwalled carbon nanotubes composites as sensing membrane electrodes for DNA detection. <i>Microsystem Technologies</i> , 2017, 23, 3421-3428.	2.0	11
60	Perspectives of nanobiotechnology and biomacromolecules in parkinson's disease. <i>Process Biochemistry</i> , 2019, 86, 32-39.	3.7	11
61	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
62	Oxidation functionalization of multiwalled carbon nanotube by mild acid sonication. , 2014, , .		10
63	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.	5.0	10
64	Fabrication of Silicon Nanowires Array Using E-beam Lithography Integrated with Microfluidic Channel for pH Sensing. <i>Current Nanoscience</i> , 2015, 11, 239-244.	1.2	10
65	The impact of minority carrier lifetime and carrier concentration on the efficiency of CIGS solar cell. , 2014, , .		9
66	Permittivity and temperature effects on rectification performance of self-switching diodes with different geometrical structures using two-dimensional device simulator. <i>Solid-State Electronics</i> , 2017, 138, 16-23.	1.4	9
67	Shortening full-length aptamer by crawling base deletion " Assisted by Mfold web server application. <i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i> , 2017, 23, 37-42.	1.0	9
68	InGaAs-based planar barrier diode as microwave rectifier. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 064101.	1.5	9
69	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
70	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
71	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
72	Improvement of high-frequency FinFET performance by fin width engineering. , 2012, , .		8

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73	Soft lithography of microfluidics channels using SU-8 mould on glass substrate for low cost fabrication. , 2016, , .		8
74	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
75	FEM modeling and simulation of a layered SAW device based on ZnO/128° YX LiNbO ₃ . , 2016, , .		8
76	Glycosylated biomarker sensors: advancements in prostate cancer diagnosis. Chemical Communications, 2021, 57, 9640-9655.	4.1	8
77	Impact of different ground planes of UTBB SOI MOSFETs under the single-gate (SG) and double-gate (DG) operation mode. , 2014, , .		7
78	Surface functionalization of multiwalled carbon nanotube for biosensor device application. , 2014, , .		7
79	Deposition and characterization of ZnO thin film for FET with back gate biasing-based biosensors application. , 2015, , .		7
80	Interdigitated Electrodes integrated with zinc oxide nanoparticles for Cardiac Troponin I biomarker detection. , 2016, , .		7
81	An overview of self-switching diode rectifiers using green materials. AIP Conference Proceedings, 2017, , .	0.4	7
82	Drain / substrate coupling impact on DIBL of Ultra Thin Body and BOX SOI MOSFETs with undoped channel. , 2009, , .		6
83	Gate dielectric scaling in MOSFETs device. AIP Conference Proceedings, 2016, , .	0.4	6
84	Synthesis of SiC nanowhiskers from graphite and silica by microwave heating. Materials Science-Poland, 2016, 34, 770-779.	1.0	6
85	Design and fabrication of Interdigitated Electrode (IDE) for detection of Ganoderma boninense. , 2016, , .		6
86	The impact of different channel doping concentrations on the performance of polycrystalline silicon nanowire field-effect transistor biosensor. AIP Conference Proceedings, 2018, , .	0.4	6
87	Alkalinized extraction of silica-aluminium nanocomposite from traditional Chinese joss paper: Optical characterizations. Materials Chemistry and Physics, 2020, 243, 122621.	4.0	6
88	Design and fabrication of PDMS microfluidics device for rapid and label-free DNA detection. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	6
89	Self-switching diodes as RF rectifiers: evaluation methods and current progress. Bulletin of Electrical Engineering and Informatics, 2019, 8, 396-404.	0.8	6
90	The impact of channel doping in junctionless field effect transistor. , 2014, , .		5

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91	Real-time detection by properties of tin dioxide for formaldehyde gas sensor. , 2015, , .		5
92	Characterization of self-switching diodes as microwave rectifiers using ATLAS simulator. , 2016, , .		5
93	Permittivity and temperature effects to rectification performance of self-switching device using two-dimensional simulation. , 2016, , .		5
94	FET-biosensor for cardiac troponin biomarker. EPJ Web of Conferences, 2017, 162, 01046.	0.3	5
95	The ZnO-FET Biosensor for Cardiac Troponin I. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012031.	0.6	5
96	Microfluidic biochemical sensor based on circular SIWâ€DMS approach for dielectric characterization application. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21801.	1.2	5
97	The Characterization of Al Bond Pad Surface Treatment in Electroless Nickel Immersion Gold (ENIG) Deposition. American Journal of Applied Sciences, 2007, 4, 133-141.	0.2	5
98	Silicon nitride gate ISFET fabrication based on four mask layers using standard MOSFET technology. , 2008, , .		4
99	RF behavior of undoped channel ultra-thin body with ultra-thin BOX MOSFETs. , 2012, , .		4
100	Lower DIBL in inverted substrate of UTBB SOI n-MOSFETs. , 2014, , .		4
101	Development of electronic reader for formaldehyde detection sensor. , 2015, , .		4
102	Spray pyrolysis of graphene oxide for field-effect transistor biosensor application. , 2015, , .		4
103	Rectification performance of self-switching diodes in silicon substrate using device simulator. , 2016, , .		4
104	Effect of Concentration of Oxalic Acid on the Synthesis of Porous Anodic Alumina (PAA) on Aluminum Alloy AA6061. Materials Science Forum, 0, 857, 281-285.	0.3	4
105	The Impact of Reaction Parameters on Graphene-like Material Synthesized Using Chemical Vapour Deposition. Procedia Engineering, 2017, 184, 460-468.	1.2	4
106	Numerical simulation of different silicon nanowire field-effect transistor channel lengths for biosensing application. AIP Conference Proceedings, 2018, , .	0.4	4
107	Fabrication of Cu₂O Nanostructured Thin Film by Anodizing. Materials Science-Poland, 2018, 36, 209-216.	1.0	4
108	The surface characteristics of under bump metallurgy (UBM) in electroless nickel immersion gold (ENIG) deposition. Microelectronics Reliability, 2006, 46, 367-379.	1.7	3

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109	Emulation of double gate transistor in ultra-thin body with thin buried oxide SOI MOSFETs. , 2013, , .		3
110	Controlling growth rate of ultra-thin Silicon Dioxide layer by incorporating nitrogen gas during dry thermal oxidation. , 2014, , .		3
111	Reactive Ion etching of TiO ₂ thin film: The impact of different gaseous. , 2015, , .		3
112	Characteristics of TiO ₂ thin film with back-gate biasing for FET-based biosensors application. , 2015, , .		3
113	Impact of size variation in junctionless vs junction planar SOI n-MOSFET transistor. , 2015, , .		3
114	Micro-Encapsulation of Antibiotic in Cellulose Nanoparticle Inhibits Bacteria. Micro and Nanosystems, 2016, 8, 41-46.	0.6	3
115	Effect of annealing temperature on structural, morphological and electrical properties of nanoparticles TiO ₂ thin films by sol-gel method. AIP Conference Proceedings, 2016, , .	0.4	3
116	The effect of substrate-gate bias on the zinc oxide field-effect transistor for biosensing application. , 2016, , .		3
117	Selectivity verification of cardiac troponin monoclonal antibodies for cardiac troponin detection by using conventional ELISA. AIP Conference Proceedings, 2017, , .	0.4	3
118	Improved Rectification Performance and Terahertz Detection in Hybrid Structure of Self-Switching Device (SSD) and Planar Barrier Diode (PBD) Using Two-Dimensional Device Simulation. Solid State Phenomena, 0, 301, 111-117.	0.3	3
119	Characteristics of Serial Peripheral Interfaces (SPI) Timing Parameters for Optical Mouse Sensor. , 2006, , .		2
120	The Surface Morphology Characterization of Electroless Nickel Immersion Gold Under Bump Metallurgy (UBM) Using SEM. , 2011, , .		2
121	Synthesis of zinc oxide thin film by anodizing. , 2014, , .		2
122	Aptamer immobilization on MWCNT-modified SGFET for detection of HIV-1 Tat protein. , 2014, , .		2
123	TiO ₂ anatase phase structure growth, morphological optical and electrical characterization by different alcoholic solvents. , 2015, , .		2
124	Development of effectively test chamber for SnCl ₂ gas detection sensor. , 2015, , .		2
125	Transparent mask design and fabrication of interdigitated electrodes. , 2015, , .		2
126	Development of a read-out circuitry for piezoresistive microcantilever electrical properties measurement. , 2015, , .		2

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127	Preparation and characterization of titanium dioxide thin film for field-effect transistor biosensor application. , 2015, , .		2
128	Numerical simulation on development of a SAW based biosensor. AIP Conference Proceedings, 2016, , .	0.4	2
129	Design Architecture of field-effect transistor with back gate electrode for biosensor application. AIP Conference Proceedings, 2016, , .	0.4	2
130	Zinc oxide interdigitated electrode for biosensor application. AIP Conference Proceedings, 2016, , .	0.4	2
131	Gold nanoparticles embedded silicon channel biosensor for improved sensitivity. AIP Conference Proceedings, 2016, , .	0.4	2
132	Surface morphology of titanium dioxide (TiO ₂) nanoparticles on aluminum interdigitated device electrodes (IDEs). AIP Conference Proceedings, 2016, , .	0.4	2
133	Integrated titanium dioxide (TiO ₂) nanoparticles on interdigitated device electrodes (IDEs) for pH analysis. AIP Conference Proceedings, 2016, , .	0.4	2
134	Rectification performance of self-switching diode in various geometries using ATLAS simulator. , 2016, , .		2
135	Fabrication and characterization on reduced graphene oxide field effect transistor (RGOFET) based biosensor. AIP Conference Proceedings, 2016, , .	0.4	2
136	Sensitivity and selectivity of metal oxides based sensor towards detection of formaldehyde. , 2016, , .		2
137	Synthesis of Silicon Carbide Nanowhiskers from Graphite and Silica of Different Ratio by Microwave Irradiation Assisted Synthesis. Materials Science Forum, 2016, 857, 121-125.	0.3	2
138	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
139	Development of atmospheric pressure plasma needle jet for sterilization applications. AIP Conference Proceedings, 2017, , .	0.4	2
140	Characterization of zinc oxide thin film for pH detector. AIP Conference Proceedings, 2017, , .	0.4	2
141	Fabrication and characterization of aluminium interdigitated electrode hybrid with ZnO for cardiac troponin T biomarker detection. AIP Conference Proceedings, 2018, , .	0.4	2
142	Electrical responses of dengue virus (DENV) using poly-Si nanowire array biosensor. AIP Conference Proceedings, 2018, , .	0.4	2
143	Silicon-on-insulator FET biosensor for dengue DNA complementation. AIP Conference Proceedings, 2018, , .	0.4	2
144	Development of a Love-Wave Biosensor Based on an Analytical Model. Chemosensors, 2022, 10, 81.	3.6	2

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145	Characterization of parasitic residual deposition on passivation layer in electroless nickel immersion gold process. <i>Microelectronics Reliability</i> , 2007, 47, 1120-1126.	1.7	1
146	Influence of drain voltage on MOSFET threshold voltage determination by transconductance change and g_m methods. , 2011, , .		1
147	Fabrication and characterization of polysilicon for DNA detection. , 2014, , .		1
148	A field-effect device based on an exfoliated thin film of few-layer graphene. , 2014, , .		1
149	The annealing temperature effect on the structure and electrical properties of titanium dioxide (TiO_2) film deposited by reactive RF sputtering. , 2014, , .		1
150	Electron concentration behavior in junctionless vs junction SOI n-MOSFET transistor. , 2015, , .		1
151	Comparison of deal grove model growth rate with dry thermal oxidation process for ultra-thin silicon dioxide film. , 2015, , .		1
152	Study on chemically modified graphene platforms for biosensor applications. , 2015, , .		1
153	Fabrication and electrical characterization of graphene oxide as transducing channel for biosensor application. , 2015, , .		1
154	Low cost mask layout design for fabrication of spiral interdigitated electrodes in electrochemical biosensor application. , 2015, , .		1
155	Integrated of IDEs with TiO_2 nanoparticles thin films for pH sensor. , 2015, , .		1
156	The effect of spray volume and height to the electrical conductance of carbon nanotube layer. , 2015, , .		1
157	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
158	Optimization of time on CF_4/O_2 etchant for inductive couple plasma reactive ion etching of TiO_2 thin film. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
159	Impact of gate workfunction in junctionless versus junction SOI n-MOSFET transistor. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
160	Impact of silicon epitaxial thickness layer in high power diode devices. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
161	HIV-1 Tat peptide detection by using RNA aptamer on MWCNT modified electrode. , 2016, , .		1
162	Colorimetric assay of HIV-1 Tat protein and peptide. , 2016, , .		1

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163	Integration of IDE with ZnO nanoparticles for detection of synthetic formaldehyde liquid. , 2016, , .		1
164	Interdigitated electrode biosensor on graphene oxide-multiwalled carbon nanotubes for DNA detection. , 2016, , .		1
165	Surface morphology of reduced graphene oxide-carbon nanotubes hybrid film for bio-sensing applications. , 2016, , .		1
166	Microwave Irradiation Assisted Synthesis of Silicon Carbide Nanotubes. Materials Science Forum, 2016, 857, 111-115.	0.3	1
167	Fabrication and characterization on width of spiral interdigitated electrodes based biosensors. AIP Conference Proceedings, 2017, , .	0.4	1
168	Characterization of difference carbon nanotubes (CNTs) as a sensing mechanism for development of formaldehyde gas detection sensor. , 2017, , .		1
169	Emergency data handling medium access control protocol for wireless body area network. , 2017, , .		1
170	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. Journal of Physics: Conference Series, 2018, 995, 012068.	0.4	1
171	Aptasensing Ampicillin on Silica Substrate Gapped by Interdigitated Aluminium Electrode. Micro and Nanosystems, 2019, 11, 115-122.	0.6	1
172	Blood Biomarkers Diagnosis as Primitive Precautionary using Zinc Oxide (ZnO) modified Interdigitated Electrode (IDE). , 2019, , .		1
173	Detection of Prostate Cancer's Antigen in Sub-pico Range of Concentration using the Faradaic-mode Electrochemical Impedance Spectroscopy. , 2019, , .		1
174	The Impact of High-k Dielectric Layers for SiNW-FET Biosensor Performance Improvement. , 2019, , .		1
175	Fabrication and Characterization of Back-Gate Controlled Silicon Nanowire based Field-effect pH Sensor. , 2019, , .		1
176	The Characterization of Power Supply Noise for Optical Mouse Sensor. Electronics Manufacturing Technology Symposium (IEMT), IEEE/CPMT International, 2006, , .	0.0	0
177	The impact of scaled channel length in tunneling field effect transistors (TFETs). , 2014, , .		0
178	Fabrication and characterization of undoped polysilicon nanowire for pH sensor. , 2014, , .		0
179	The RF power effect on the surface morphology of titanium dioxide (TiO ₂) film. , 2014, , .		0
180	Effects of ethanol in oxalic acid on the synthesis of porous anodic alumina. , 2014, , .		0

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181	Morphology characterization on different volume and height of MWCNT layer deposition by spray method. , 2015, , .		0
182	Physical properties of hydrothermal growth nanostructure metal titanium dioxide. , 2015, , .		0
183	Impact of silicon-body thickness on emulation of double-gate UTBB SOI MOSFETs with different ground plane structures. , 2015, , .		0
184	The effect of aluminum nanoparticle on the seebeck coefficient of biomedical thermoelectric devices. , 2015, , .		0
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