

Uda Hashim

List of Publications by Year in descending order

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512
papers

6,339
citations

71102

41
h-index

118850

62
g-index

513
all docs

513
docs citations

513
times ranked

6514
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold-Nanohybrid Biosensors for Analyzing Blood Circulating Clinical Biomacromolecules: Current Trend toward Future Remote Digital Monitoring. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 577-592.	3.5	6
2	Recent advances in techniques for fabrication and characterization of nanogap biosensors: A review. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 1395-1417.	3.1	5
3	Potentials of MicroRNA in Early Detection of Ovarian Cancer by Analytical Electrical Biosensors. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 1511-1523.	3.5	3
4	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.	1.9	31
5	Feasibility study on microwave welding of thermoplastic using multiwalled carbon nanotubes as susceptor. <i>Nanomaterials and Nanotechnology</i> , 2021, 11, 184798042110029.	3.0	8
6	Nano humidity and temperature sensors activated water pump agricultural system. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
7	Integrated ZnO-Al ₂ O ₃ nano particles as absorbent for heavy metal ions and organic impurities. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	3
8	MPTES decorated IDE for arsenic (As) selective detection. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	1
9	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.	7.5	15
10	Production and characterization of graphene from carbonaceous rice straw by cost-effect extraction. <i>3 Biotech</i> , 2021, 11, 205.	2.2	15
11	A mini review of electrochemical genosensor based biosensor diagnostic system for infectious diseases. <i>Environmental and Toxicology Management</i> , 2021, 1, 14-17.	0.7	1
12	Silica and graphene mediate arsenic detection in mature rice grain by a newly patterned currentâ€‘voltage aptasensor. <i>Scientific Reports</i> , 2021, 11, 14688.	3.3	14
13	MicroRNA of Nâ€‘region from SARSâ€‘CoVâ€‘2: Potential sensing components for biosensor development. <i>Biotechnology and Applied Biochemistry</i> , 2021, , .	3.1	4
14	Designing dna probe from hpv 18 and 58 in e6 region for sensing element in the development of genosensor based gold nanoparticles. <i>Biotechnology and Applied Biochemistry</i> , 2021, , .	3.1	1
15	Impact of buried oxide thickness in substrate-gate integrated silicon nanowire field-effect transistor biosensor performance for charge sensing. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
16	Quantitative lead (Pb ⁺) ion detection via modified silicon nanowire. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
17	Determination of silicon nanowire mechanical properties by first principle. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
18	Study on the effects of anodizing voltage to the AAO thin film dimensional properties synthesized by single step anodization method. , 2021, , .		0

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19	Surface characterization study of nanoporous anodic aluminium oxide thin film synthesized by single-step anodization. AIP Conference Proceedings, 2021, , .	0.4	1
20	The impact of silicon nanowire transducer channel width on field-effect transistor biosensor performance. AIP Conference Proceedings, 2021, , .	0.4	0
21	Fabrication of Integrated Electrode for pH Sensor Application. , 2021, , .		0
22	Novel Approaches in Fabrication and Integration of Nanowire for Micro/Nano Systems. Critical Reviews in Analytical Chemistry, 2021, , 1-17.	3.5	1
23	Capillary Driven Multi Channels Microfluidic. Journal of Physics: Conference Series, 2021, 2129, 012058.	0.4	0
24	Fabrication and characterizations of Al nanoparticles doped ZnO nanostructures-based integrated electrochemical biosensor. Journal of Materials Research and Technology, 2020, 9, 857-867.	5.8	46
25	Characterization of Genome Sequence 2019 Novel Coronavirus (2019-nCoV) by using BioinformaticTool. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012168.	0.6	3
26	Label-free aptamer based biosensor for heavy metal detection. AIP Conference Proceedings, 2020, , .	0.4	4
27	Gold Nanoparticles Enhanced Electrochemical Impedance Sensor (EIS) for Human Papillomavirus (HPV) 16 Detection E6 region. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012165.	0.6	1
28	Development of Highly Sensitive Interdigitated Electrode (IDEs) Biosensor to Determine Glucose Level using Saliva as Sample. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012206.	0.6	0
29	Titanium dioxide (TiO ₂) nanoparticles on aluminium interdigitated electrodes (Al IDE) for sensitive pH detection. AIP Conference Proceedings, 2020, , .	0.4	0
30	Titanium dioxide-mediated resistive nanobiosensor for E. coli O157:H7. Mikrochimica Acta, 2020, 187, 235.	5.0	17
31	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
32	Review-Three Dimensional Zinc Oxide Nanostructures as an Active Site Platform for Biosensor: Recent Trend in Healthcare Diagnosis. Journal of the Electrochemical Society, 2020, 167, 137501.	2.9	14
33	Development of voltage amplifier electronic reader using NodeMCU. AIP Conference Proceedings, 2020, , .	0.4	0
34	Assessment of heavy metals contamination studies in paddy grains around paddy field in Perlis. AIP Conference Proceedings, 2020, , .	0.4	2
35	Fabrication of gold nanorod-zinc oxide nanocomposite on gap-fingered integrated interdigitated aluminum electrodes and their response to electrolytes. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	20
36	Voltammetric determination of human papillomavirus 16 DNA by using interdigitated electrodes modified with titanium dioxide nanoparticles. Mikrochimica Acta, 2019, 186, 336.	5.0	27

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37	Development of highly sensitive interdigitated electrodes (IDEs) with APTES/COx based lab-on-chip biosensor to determine glucose level. , 2019, , .		1
38	Synthesis of ZnO Nanorod using Hydrothermal Technique for Temperature Sensor. , 2019, , .		0
39	Human Papillomavirus E6 biosensing: Current progression on early detection strategies for cervical Cancer. International Journal of Biological Macromolecules, 2019, 126, 877-890.	7.5	25
40	Co-ordinated split aptamer assembly and disassembly on Gold nanoparticle for functional detection of HIV-1 tat. Process Biochemistry, 2019, 79, 32-39.	3.7	11
41	Spectral aging of gold and silver nanoparticles synthesized by laser ablation in liquids. Journal of Nanophotonics, 2019, 13, 1.	1.0	4
42	Designing probe from E6 genome region of human Papillomavirus 16 for sensing applications. International Journal of Biological Macromolecules, 2018, 107, 1738-1746.	7.5	11
43	Influenza viral detection on microfluidic delivery assisted biosensors. Microsystem Technologies, 2018, 24, 823-830.	2.0	1
44	Sensitive pH detection on gold interdigitated electrodes as an electrochemical sensor. Microsystem Technologies, 2018, 24, 1965-1974.	2.0	27
45	Effect of Kenaf Fibre Layers on Mechanical and Thermal Properties of Kenaf/Unsaturated Polyester Composites. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012091.	0.6	1
46	Design, Fabrication and Characterization of silicon Nanostructures for Lead (Pb+) ion detection. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012181.	0.6	2
47	Impedance based Aluminium Interdigitated Electrode (Al-IDE) Biosensor on Silicon Substrate for Salmonella Detection. , 2018, , .		5
48	Functionalization of Si Nanowire Surfaces to Create Interactive Mechanism for Heavy Metals Detection Application. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012180.	0.6	1
49	Modelling Simulation of Organic and Inorganic Interaction Based on First Principle Calculation. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012090.	0.6	0
50	Arsenic ion Detection via Electron Chemical Reaction Mechanism Based on Interdigitated Electrode (IDE). IOP Conference Series: Materials Science and Engineering, 2018, 454, 012183.	0.6	0
51	The effect of nitric acid oxidation parameters to the structural and electrochemical behavior of multi-walled carbon nanotubes. AIP Conference Proceedings, 2018, , .	0.4	0
52	Multichannel PDMS microfluidic based nano-biolab-on-a-chip for medical diagnostics. AIP Conference Proceedings, 2018, , .	0.4	6
53	Development of portable electronic reader for picoampere detection for two-electrode based amperometric biosensor applications. AIP Conference Proceedings, 2018, , .	0.4	3
54	Identification of probes for biosensing dengue viral serotypes. AIP Conference Proceedings, 2018, , .	0.4	0

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55	Identification of conserved and non-served regions among 16S rRNAs for bacterial probe designing. AIP Conference Proceedings, 2018, , .	0.4	0
56	Analysis of conserved and non-served regions in neuraminidase of influenza virus for probe designing. AIP Conference Proceedings, 2018, , .	0.4	0
57	Conserved and non-served regions in herpes simplex viral glycoproteins for probe designing. AIP Conference Proceedings, 2018, , .	0.4	0
58	Selective detection of E.coli O157:H7 bacteria DNA using electrical based aluminium interdigitated electrode biosensor. AIP Conference Proceedings, 2018, , .	0.4	7
59	Physical and structural study of graphene oxide by improved hummers method. AIP Conference Proceedings, 2018, , .	0.4	2
60	Mercaptopropyltriethoxysilane (MPTES) Concentration Effect on Selectivity and Electrical Response of Nanostructure. IOP Conference Series: Materials Science and Engineering, 2018, 454, 012184.	0.6	0
61	Fabrication and characterization of TiO ₂ nanoparticles for determination of phosphate buffer saline concentration. , 2018, , .		0
62	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
63	Numerical simulation of different silicon nanowire field-effect transistor channel lengths for biosensing application. AIP Conference Proceedings, 2018, , .	0.4	4
64	Electrical properties of titanium dioxide nanoparticle on microelectrode: Gap size effect. AIP Conference Proceedings, 2018, , .	0.4	0
65	Modified surface of titanium dioxide nanoparticles-based biosensor for DNA detection. AIP Conference Proceedings, 2018, , .	0.4	0
66	Fabrication of Cu ₂ O Nanostructured Thin Film by Anodizing. Materials Science-Poland, 2018, 36, 209-216.	1.0	4
67	Investigation on Optimally Performing Sensor Substrates through Bio-fouling of Immunoglobulin-Conjugated Gold Nanoparticles. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2017, 87, 807-814.	1.0	0
68	An electrochemical DNA biosensor based gold-thiolate conjugation utilizing ruthenium complex [Ru(dppz) ₂ (qtpy)]Cl ₂ . Microsystem Technologies, 2017, 23, 1237-1245.	2.0	5
69	Development of an inductor incorporated onto a carbon fiber MAV structural component. Microsystem Technologies, 2017, 23, 1433-1442.	2.0	5
70	Stable electrical, morphological and optical properties of titanium dioxide nanoparticles affected by annealing temperature. Microsystem Technologies, 2017, 23, 1743-1750.	2.0	8
71	Structural, optical and electrical investigations of Cu ₂ Zn _{1-x} Cd _x SnS ₄ /Si quaternary alloy nanostructures synthesized by spin coating technique. Microsystem Technologies, 2017, 23, 2223-2232.	2.0	22
72	Review of the synthesis, transfer, characterization and growth mechanisms of single and multilayer graphene. RSC Advances, 2017, 7, 15644-15693.	3.6	263

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73	Fabrication and characterization on width of spiral interdigitated electrodes based biosensors. AIP Conference Proceedings, 2017, , .	0.4	1
74	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
75	Immunosensor development for rice tungro bacilliform virus (RTBV) detection using antibody nano-gold conjugate. AIP Conference Proceedings, 2017, , .	0.4	5
76	Top-down fabricated nanowire sensor: The effect of charge-interface on the behavior of the semiconductor nanowire via silanol-water interactions. AIP Conference Proceedings, 2017, , .	0.4	2
77	Comparison of different methods for extraction and purification of human Papillomavirus (HPV) DNA from serum samples. AIP Conference Proceedings, 2017, , .	0.4	0
78	Determination of set potential voltages for cucumber mosaic virus detection using screen printed carbon electrode. AIP Conference Proceedings, 2017, , .	0.4	3
79	A strategy for design and fabrication of low cost microchannel for future reproductivity of bio/chemical lab-on-chip application. AIP Conference Proceedings, 2017, , .	0.4	1
80	Effect of different concentration of HPV DNA probe immobilization for cervical cancer detection based IDE biosensor. AIP Conference Proceedings, 2017, , .	0.4	0
81	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
82	Selectivity verification of cardiac troponin monoclonal antibodies for cardiac troponin detection by using conventional ELISA. AIP Conference Proceedings, 2017, , .	0.4	3
83	Evaluation of factor IX deficiency by interdigitated electrode (IDE). AIP Conference Proceedings, 2017, , .	0.4	3
84	Development of gas sensing application for formaldehyde gas detection and characterization of tin dioxide. AIP Conference Proceedings, 2017, , .	0.4	0
85	Design, fabrication and characterization of 1.0 μ m Gap Al based interdigitated electrode for biosensors. Microsystem Technologies, 2017, 23, 4501-4507.	2.0	25
86	Enhanced sensing based MWCNTS on interdigitated electrode (IDEs) biosensor. AIP Conference Proceedings, 2017, , .	0.4	0
87	Fabrication of interdigitated electrodes (IDEs) using basic conventional lithography for pH measurement. AIP Conference Proceedings, 2017, , .	0.4	3
88	Immunosensor development formatting for tungro disease detection using nano-gold antibody particles application. AIP Conference Proceedings, 2017, , .	0.4	5
89	Electrical characterization of reduced graphene oxide (rGO) on organic thin film transistor (OTFT). AIP Conference Proceedings, 2017, , .	0.4	1
90	Fabrication and characterization of spiral interdigitated electrodes based biosensor for salivary glucose detection. AIP Conference Proceedings, 2017, , .	0.4	0

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91	Detection of human immunodeficiency virus type 1 (HIV-1) Tat protein by aptamer-based biosensors. AIP Conference Proceedings, 2017, , .	0.4	1
92	Preliminary assessment for DNA extraction on microfluidic channel. AIP Conference Proceedings, 2017, , .	0.4	1
93	Ultra-low current biosensor output detection using portable electronic reader. AIP Conference Proceedings, 2017, , .	0.4	6
94	Preparation of DNA biosensor application from fuel oil waste by functionalization and characterization of MWCNT. Sensing and Bio-Sensing Research, 2017, 16, 1-5.	4.2	15
95	Determination of fixed-potential selection using chronoamperometry analysis by screen-printed carbon electrode for rice tungro bacilliform virus (RTBV) detection. AIP Conference Proceedings, 2017, , .	0.4	0
96	Lab-on-chip components for molecular detection. AIP Conference Proceedings, 2017, , .	0.4	0
97	Drug carrier in cancer therapy: A simulation study based on magnetic carrier substances. AIP Conference Proceedings, 2017, , .	0.4	0
98	Electrical DNA biosensor using aluminium interdigitated electrode for E.Coli O157:H7 detection. AIP Conference Proceedings, 2017, , .	0.4	14
99	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
100	Calculation of the band structure parameter in silicon nanowires using first principle analytical method. AIP Conference Proceedings, 2017, , .	0.4	5
101	Fabrication of microfluidic integrated biosensor. AIP Conference Proceedings, 2017, , .	0.4	0
102	Characterization of zinc oxide thin film for pH detector. AIP Conference Proceedings, 2017, , .	0.4	2
103	Characterization of difference carbon nanotubes (CNTs) as a sensing mechanism for development of formaldehyde gas detection sensor. , 2017, , .		1
104	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
105	Multi-analyte validation in heterogeneous solution by ELISA. International Journal of Biological Macromolecules, 2017, 105, 796-800.	7.5	9
106	HPV DNA target hybridization concentrations studies using interdigitated electrodes (IDE) for early detection of cervical cancer. AIP Conference Proceedings, 2017, , .	0.4	0
107	Target ssDNA detection of E.coli O157:H7 through electrical based DNA biosensor. Microsystem Technologies, 2017, 23, 5771-5780.	2.0	25
108	Lattices parameter dependent on effective atomic interactive coefficient in nanostructure. AIP Conference Proceedings, 2017, , .	0.4	2

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109	Formation of ultra Si/Ti nano thin film for enhancing silicon solar cell efficiency. Journal of Physics: Conference Series, 2017, 908, 012040.	0.4	0
110	Specific and selective target detection of supra-genome 21 Mers Salmonella via silicon nanowires biosensor. AIP Conference Proceedings, 2017, , .	0.4	2
111	Synthesis of zinc oxide thin films prepared by sol-gel for specific bioactivity. AIP Conference Proceedings, 2017, , .	0.4	2
112	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
113	A direct detection of human papillomavirus 16 genomic DNA using gold nanoprobe. International Journal of Biological Macromolecules, 2017, 94, 571-575.	7.5	30
114	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
115	Reduced graphene oxideâ€“multiwalled carbon nanotubes composites as sensing membrane electrodes for DNA detection. Microsystem Technologies, 2017, 23, 3421-3428.	2.0	11
116	Shortening full-length aptamer by crawling base deletion â€“ 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
117	Substrate-gate coupling in ZnO-FET biosensor for cardiac troponin I detection. Sensors and Actuators B: Chemical, 2017, 242, 1142-1154.	7.8	63
118	Highly sensitive Escherichia coli shear horizontal surface acoustic wave biosensor with silicon dioxide nanostructures. Biosensors and Bioelectronics, 2017, 93, 146-154.	10.1	49
119	A study of nano-biosensors and their output amplitude analysis algorithms. Journal of Medical Engineering and Technology, 2017, 41, 72-80.	1.4	1
120	Gold Nanoparticle-Mediated High-Performance Enzyme-Linked Immunosorbent Assay for Detection of Tuberculosis ESAT-6 Protein. Micro and Nanosystems, 2017, 8, 92-98.	0.6	29
121	Fabrication and characterization of titanium dioxide through different depositions method for detection of formaldehyde gas. , 2017, , .		0
122	Surface morphological and electrical characterization of silicon nanowires (SiNWs) by conventional photolithography method. , 2017, , .		1
123	In-House fabrication and Electrical characterization of planner si-nanogap. Journal of Physics: Conference Series, 2017, 908, 012064.	0.4	0
124	Gold nano-particle based Al interdigitated electrode electrical biosensor for specific ssDNA target detection. , 2017, , .		4
125	Mediatorless Impedance Studies with Titanium Dioxide Conjugated Gold Nanoparticles for Hydrogen Peroxide Detection. Biosensors, 2017, 7, 38.	4.7	17
126	Biotechnological Processes in Microbial Amylase Production. BioMed Research International, 2017, 2017, 1-9.	1.9	113

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127	Green Synthesis of Zinc Oxide Nanostructured Thin Film by Anodizing Process Using Distilled Water as Electrolyte. <i>Nanoscience and Nanotechnology - Asia</i> , 2017, 7, .	0.7	1
128	Detection of Squamous Cell Carcinoma Antigen with Micro- and Nanogap Interdigitated Electrodes and Gold Nanoparticles. <i>Micro and Nanosystems</i> , 2017, 9, .	0.6	0
129	Detection of Human Papillomavirus 16-Specific IgG and IgM Antibodies in Patient Sera: A Potential Indicator of Oral Squamous Cell Carcinoma Risk Factor. <i>International Journal of Medical Sciences</i> , 2016, 13, 424-431.	2.5	10
130	Study of surface functionalization on IDE by using 3-aminopropyl triethoxysilane (APTES) for cervical cancer detection. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
131	Silicon substrate performance on morphological and electrical properties on Zinc Oxide thin films prepared via sol gel method. , 2016, , .		0
132	Study of concentration of HPV DNA probe immobilization for cervical cancer detection based IDE biosensor. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
133	Performance comparison for signal amplitude analysis algorithms in nano biosensor application. , 2016, , .		0
134	Nitric acid treated multi-walled carbon nanotubes optimized by Taguchi method. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	16
135	Design architecture of double spiral interdigitated electrode with back gate electrode for biosensor application. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
136	Design Architecture of field-effect transistor with back gate electrode for biosensor application. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
137	Zinc oxide interdigitated electrode for biosensor application. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
138	Gold nanoparticles embedded silicon channel biosensor for improved sensitivity. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
139	Surface morphology of titanium dioxide (TiO ₂) nanoparticles on aluminum interdigitated device electrodes (IDEs). <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
140	Integrated titanium dioxide (TiO ₂) nanoparticles on interdigitated device electrodes (IDEs) for pH analysis. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
141	Study of nanoparticles TiO ₂ thin films on p-type silicon substrate using different alcoholic solvents. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
142	Gate dielectric scaling in MOSFETs device. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	6
143	A study on real-time pulse sensor interface with system-on-chip architecture. , 2016, , .		1
144	Automatic peak detection system power analysis using system on a programmable chip (SoPC) methodology. , 2016, , .		0

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145	The latest trend in nanobiosensor system architectures. , 2016, , .		0
146	Interdigitated electrode (IDE) for porcine detection based on titanium dioxide (TiO ₂) thin films. AIP Conference Proceedings, 2016, , .	0.4	2
147	Fabrication and characterization on reduced graphene oxide field effect transistor (RGOFET) based biosensor. AIP Conference Proceedings, 2016, , .	0.4	2
148	Fabrication of interdigitated high-performance zinc oxide nanowire modified electrodes for glucose sensing. Analytica Chimica Acta, 2016, 925, 70-81.	5.4	30
149	The latest trend in nano-bio sensor signal analysis. Sensor Review, 2016, 36, 303-311.	1.8	2
150	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
151	FEM modeling and simulation of a layered SAW device based on ZnO/128° YX LiNbO ₃ . , 2016, , .		8
152	HIV-1 Tat peptide detection by using RNA aptamer on MWCNT modified electrode. , 2016, , .		1
153	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. Mikrochimica Acta, 2016, 183, 3119-3126.	5.0	33
154	Design and fabrication of Interdigitated Electrode (IDE) for detection of Ganoderma boninense. , 2016, , .		6
155	Numerical simulation of underlap FET device architecture for biosensor applications. , 2016, , .		0
156	The effect of substrate-gate bias on the zinc oxide field-effect transistor for biosensing application. , 2016, , .		3
157	UTBB SOI MOSFETs with gate-source/drain underlap and ground plane (GP) structures for analog/RF applications. , 2016, , .		0
158	Impact of gate-source/drain underlap and ground plane (GP) structures towards digital FoM of 25 nm UTBB SOI MOSFETs. , 2016, , .		0
159	Electrical characterization of surface modified IDE with Gold Nano particles. , 2016, , .		1
160	Colorimetric assay of HIV-1 Tat protein and peptide. , 2016, , .		1
161	Interdigitated Electrodes integrated with zinc oxide nanoparticles for Cardiac Troponin I biomarker detection. , 2016, , .		7
162	Integration of IDE with ZnO nanoparticles for detection of synthetic formaldehyde liquid. , 2016, , .		1

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163	Sensitivity and selectivity of metal oxides based sensor towards detection of formaldehyde. , 2016, , .		2
164	Surface morphology of reduced graphene oxide-carbon nanotubes hybrid film for bio-sensing applications. , 2016, , .		1
165	FET-based biosensors with back-gate coupling towards the electrical pre-amplification of cardiac troponin I detection. , 2016, , .		0
166	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
167	Enhanced sensing of dengue virus DNA detection using O ₂ plasma treated-silicon nanowire based electrical biosensor. <i>Analytica Chimica Acta</i> , 2016, 942, 74-85.	5.4	37
168	Nanogapped impedimetric immunosensor for the detection of 16 kDa heat shock protein against <i>Mycobacterium tuberculosis</i> . <i>Mikrochimica Acta</i> , 2016, 183, 2697-2703.	5.0	43
169	Microfluidic-based biosensor: signal enhancement by gold nanoparticle. <i>Microsystem Technologies</i> , 2016, 22, 2389-2395.	2.0	12
170	Generation of aptamer for biosensing applications. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
171	Progression in sensing cardiac troponin biomarker charge transductions on semiconducting nanomaterials. <i>Analytica Chimica Acta</i> , 2016, 935, 30-43.	5.4	26
172	Cell-targeting aptamers act as intracellular delivery vehicles. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6955-6969.	3.6	19
173	Detection of specific single-stranded DNA molecules through SiNW surface modulation. <i>Microsystem Technologies</i> , 2016, 22, 269-273.	2.0	13
174	Design and fabrication of micro-mixer with short turns angles for self-generated turbulent structures. <i>Microsystem Technologies</i> , 2016, 22, 433-440.	2.0	14
175	Characterization of Gold-Sputtered Zinc Oxide Nanorods—a Potential Hybrid Material. <i>Nanoscale Research Letters</i> , 2016, 11, 31.	5.7	34
176	HIV-1 Tat biosensor: Current development and trends for early detection strategies. <i>Biosensors and Bioelectronics</i> , 2016, 78, 358-366.	10.1	20
177	Aptamer-based “point-of-care testing”. <i>Biotechnology Advances</i> , 2016, 34, 198-208.	11.7	89
178	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.	3.7	29
179	A new nano-worm structure from gold-nanoparticle mediated random curving of zinc oxide nanorods. <i>Biosensors and Bioelectronics</i> , 2016, 78, 14-22.	10.1	39
180	Polysilicon nanogap lab-on-chip facilitates multiplex analyses with single analyte. <i>Biosensors and Bioelectronics</i> , 2016, 84, 44-52.	10.1	25

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181	Au decorated ZnO thin film: application to DNA sensing. <i>Microsystem Technologies</i> , 2016, 22, 903-910.	2.0	12
182	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.	2.0	28
183	Top-Down Nanofabrication and Characterization of 20 nm Silicon Nanowires for Biosensing Applications. <i>PLoS ONE</i> , 2016, 11, e0152318.	2.5	31
184	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.	0.4	2
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