

Shekhar Bhansali

List of Publications by Year in descending order

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163
papers

6,659
citations

46918

47
h-index

69108

77
g-index

166
all docs

166
docs citations

166
times ranked

8533
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in ZnO nanostructures and thin films for biosensor applications: Review. <i>Analytica Chimica Acta</i> , 2012, 737, 1-21.	2.6	513
2	Organic-Inorganic Hybrid Nanocomposite-Based Gas Sensors for Environmental Monitoring. <i>Chemical Reviews</i> , 2015, 115, 4571-4606.	23.0	429
3	Recent advances in cortisol sensing technologies for point-of-care application. <i>Biosensors and Bioelectronics</i> , 2014, 53, 499-512.	5.3	238
4	Lung Cancer and Its Early Detection Using Biomarker-Based Biosensors. <i>Chemical Reviews</i> , 2011, 111, 6783-6809.	23.0	236
5	Prospects and Challenges of Volatile Organic Compound Sensors in Human Healthcare. <i>ACS Sensors</i> , 2018, 3, 1246-1263.	4.0	179
6	A new magnetic bead-based, filterless bio-separator with planar electromagnet surfaces for integrated bio-detection systems. <i>Sensors and Actuators B: Chemical</i> , 2000, 68, 34-39.	4.0	163
7	Review-Machine Learning Techniques in Wireless Sensor Network Based Precision Agriculture. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037522.	1.3	140
8	Electrochemical cortisol immunosensors based on sonochemically synthesized zinc oxide 1D nanorods and 2D nanoflakes. <i>Biosensors and Bioelectronics</i> , 2015, 63, 124-130.	5.3	136
9	A low-cost miniaturized potentiostat for point-of-care diagnosis. <i>Biosensors and Bioelectronics</i> , 2014, 62, 249-254.	5.3	133
10	An LTCC-based microfluidic system for label-free, electrochemical detection of cortisol. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 139-146.	4.0	111
11	Lactate biosensing: The emerging point-of-care and personal health monitoring. <i>Biosensors and Bioelectronics</i> , 2018, 117, 818-829.	5.3	107
12	Sensitive estimation of total cholesterol in blood using Au nanowires based micro-fluidic platform. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2289-2294.	5.3	104
13	Polyaniline protected gold nanoparticles based mediator and label free electrochemical cortisol biosensor. <i>Biosensors and Bioelectronics</i> , 2011, 28, 166-173.	5.3	100
14	Recent advances in metamaterial split-ring-resonator circuits as biosensors and therapeutic agents. <i>Biosensors and Bioelectronics</i> , 2016, 86, 595-608.	5.3	98
15	Dithiobis(succinimidyl propionate) modified gold microarray electrode based electrochemical immunosensor for ultrasensitive detection of cortisol. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2296-2301.	5.3	96
16	Title is missing!. <i>Biomedical Microdevices</i> , 2001, 3, 191-200.	1.4	95
17	Development of a highly sensitive porous Si-based hydrogen sensor using Pd nano-structures. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 125-129.	4.0	91
18	Electrochemical immunosensor for label free epidermal growth factor receptor (EGFR) detection. <i>Biosensors and Bioelectronics</i> , 2013, 39, 300-305.	5.3	90

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19	Recent advances in cytochrome c biosensing technologies. <i>Biosensors and Bioelectronics</i> , 2017, 87, 654-668.	5.3	88
20	A low-temperature bonding technique using spin-on fluorocarbon polymers to assemble microsystems. <i>Journal of Micromechanics and Microengineering</i> , 2002, 12, 187-191.	1.5	87
21	Novel lactate and pH biosensor for skin and sweat analysis based on single walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2006, 117, 308-313.	4.0	85
22	Electrochemical biosensor for targeted detection in blood using aligned Au nanowires. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 29-35.	4.0	84
23	Review "Deep Learning Methods for Sensor Based Predictive Maintenance and Future Perspectives for Electrochemical Sensors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037552.	1.3	82
24	Sharpening of hollow silicon microneedles to reduce skin penetration force. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 045011.	1.5	81
25	Effects of dielectric thickness and contact area on current-voltage characteristics of thin film metal-insulator-metal diodes. <i>Thin Solid Films</i> , 2008, 516, 2244-2250.	0.8	76
26	A-Wristocracy: Deep learning on wrist-worn sensing for recognition of user complex activities. , 2015, , .		76
27	Advances in materials for room temperature hydrogen sensors. <i>Analyst, The</i> , 2012, 137, 2743.	1.7	74
28	A realtime and continuous assessment of cortisol in ISF using electrochemical impedance spectroscopy. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 154-160.	2.0	73
29	Mediator free highly sensitive polyaniline-gold hybrid nanocomposite based immunosensor for prostate-specific antigen (PSA) detection. <i>Journal of Materials Chemistry</i> , 2012, 22, 14763.	6.7	73
30	Continuous Monitoring of Wound Healing Using a Wearable Enzymatic Uric Acid Biosensor. <i>Journal of the Electrochemical Society</i> , 2018, 165, B3168-B3175.	1.3	72
31	Ultrasensitive detection of cortisol with enzyme fragment complementation technology using functionalized nanowire. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2138-2144.	5.3	69
32	ZnO Nanorod Integrated Flexible Carbon Fibers for Sweat Cortisol Detection. <i>ACS Applied Electronic Materials</i> , 2020, 2, 499-509.	2.0	69
33	Porous silicon based orientation independent, self-priming micro direct ethanol fuel cell. <i>Sensors and Actuators A: Physical</i> , 2005, 123-124, 497-504.	2.0	66
34	Antibody functionalized interdigitated 1/4-electrode (ID1/4E) based impedimetric cortisol biosensor. <i>Analyst, The</i> , 2010, 135, 1941.	1.7	66
35	Effect of electrode geometry on the impedance evaluation of tissue and cell culture. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 89-96.	4.0	65
36	Ionic liquid-mediated sol-gel coatings for capillary microextraction. <i>Journal of Chromatography A</i> , 2009, 1216, 5449-5458.	1.8	65

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37	Electrochemical Sensing of Cortisol: A Recent Update. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 1115-1126.	1.4	64
38	Prospects of low temperature co-fired ceramic (LTCC) based microfluidic systems for point-of-care biosensing and environmental sensing. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 683-702.	1.0	61
39	Selective growth of silica nanowires in silicon catalysed by Pt thin film. <i>Nanotechnology</i> , 2006, 17, 4606-4613.	1.3	59
40	Disposable aptamer-sensor aided by magnetic nanoparticle enrichment for detection of salivary cortisol variations in obstructive sleep apnea patients. <i>Scientific Reports</i> , 2017, 7, 17992.	1.6	59
41	A Reusable Electrochemical Biosensor for Monitoring of Small Molecules (Cortisol) Using Molecularly Imprinted Polymers. <i>Journal of the Electrochemical Society</i> , 2017, 164, B54-B59.	1.3	58
42	Ion implantation based selective synthesis of silica nanowires on silicon wafers. <i>Applied Physics Letters</i> , 2006, 88, 143110.	1.5	55
43	Development of micro-fluidic nitrate-selective sensor based on doped-polypyrrole nanowires. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 623-630.	4.0	55
44	Mediator and label free estimation of stress biomarker using electrophoretically deposited Ag@AgO@polyaniline hybrid nanocomposite. <i>Biosensors and Bioelectronics</i> , 2013, 50, 35-41.	5.3	53
45	Review Towards Wearable Sensor Platforms for the Electrochemical Detection of Cortisol. <i>Journal of the Electrochemical Society</i> , 2020, 167, 067508.	1.3	53
46	Electrochemical Immunosensing of Saliva Cortisol. <i>Journal of the Electrochemical Society</i> , 2014, 161, B3077-B3082.	1.3	52
47	Electroplated thick permanent magnet arrays with controlled direction of magnetization for MEMS application. <i>Journal of Applied Physics</i> , 2000, 87, 6340-6342.	1.1	50
48	Reinforced piezoresistive pressure sensor for ocean depth measurements. <i>Sensors and Actuators A: Physical</i> , 2008, 142, 111-117.	2.0	50
49	An immunoelectrochemical sensor for salivary cortisol measurement. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 533-537.	4.0	50
50	Electrochemical sensing method for point-of-care cortisol detection in human immunodeficiency virus-infected patients. <i>International Journal of Nanomedicine</i> , 2015, 10, 677.	3.3	49
51	Microneedle-Based Automated Therapy for Diabetes Mellitus. <i>Journal of Diabetes Science and Technology</i> , 2008, 2, 1122-1129.	1.3	48
52	Photoluminescence quenching of Zirconia nanoparticle by surface modification. <i>Applied Surface Science</i> , 2015, 334, 216-221.	3.1	48
53	Design rule for optimization of microelectrodes used in electric cell-substrate impedance sensing (ECIS). <i>Biosensors and Bioelectronics</i> , 2009, 24, 2071-2076.	5.3	47
54	A Detailed Model for High-Frequency Impedance Characterization of Ovarian Cancer Epithelial Cell Layer Using ECIS Electrodes. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 485-492.	2.5	42

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55	Salivary cortisol analysis using metalloporphyrins and multi-walled carbon nanotubes nanocomposite functionalized electrodes. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 47-53.	4.0	42
56	Metal-Decorated Silica Nanowires: An Active Surface-Enhanced Raman Substrate for Cancer Biomarker Detection. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1729-1734.	1.5	40
57	Ionic liquid-mediated bis[(3-methylmethoxysilyl)propyl] polypropylene oxide-based polar sol-gel coatings for capillary microextraction. <i>Journal of Chromatography A</i> , 2009, 1216, 6349-6355.	1.8	40
58	Silica nanowires: Growth, integration, and sensing applications. <i>Mikrochimica Acta</i> , 2014, 181, 1759-1780.	2.5	38
59	Selective growth of silica nanowires using an Au catalyst for optical recognition of interleukin-10. <i>Nanotechnology</i> , 2008, 19, 245502.	1.3	37
60	Optimization of interdigitated electrode (IDE) arrays for impedance based evaluation of Hs 578T cancer cells. <i>Journal of Physics: Conference Series</i> , 2010, 224, 012134.	0.3	37
61	Vapor-liquid-solid grown silica nanowire based electrochemical glucose biosensor. <i>Analyst</i> , The, 2011, 136, 1686.	1.7	36
62	A micro-electrode array biosensor for impedance spectroscopy of human umbilical vein endothelial cells. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 115-120.	4.0	35
63	Voltammetric Detection of Cancer Biomarkers Exemplified by Interleukin-10 and Osteopontin with Silica Nanowires. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13981-13987.	1.5	35
64	A review of self-assembled monolayers as potential terahertz frequency tunnel diodes. <i>Nano Research</i> , 2014, 7, 589-625.	5.8	34
65	Smart Gardening IoT Soil Sheets for Real-Time Nutrient Analysis. <i>Journal of the Electrochemical Society</i> , 2018, 165, B3157-B3162.	1.3	33
66	Stability of Enzymatic Biosensors for Wearable Applications. <i>IEEE Reviews in Biomedical Engineering</i> , 2017, 10, 174-186.	13.1	28
67	From Cellular Cultures to Cellular Spheroids: Is Impedance Spectroscopy a Viable Tool for Monitoring Multicellular Spheroid (MCS) Drug Models?. <i>IEEE Reviews in Biomedical Engineering</i> , 2013, 6, 63-76.	13.1	27
68	Microfluidic device for trapping and monitoring three dimensional multicell spheroids using electrical impedance spectroscopy. <i>Biomicrofluidics</i> , 2013, 7, 34108.	1.2	27
69	Axial and shear fracture strength evaluation of silicon microneedles. <i>Microsystem Technologies</i> , 2010, 16, 973-978.	1.2	26
70	Single-domain antibody based thermally stable electrochemical immunosensor. <i>Biosensors and Bioelectronics</i> , 2016, 83, 162-168.	5.3	25
71	Uricase Based Enzymatic Biosensor for Non-invasive Detection of Uric Acid by Entrapment in PVA Polymer Matrix. <i>Electroanalysis</i> , 2018, 30, 2374-2385.	1.5	25
72	Impedance-Based Miniaturized Biosensor for Ultrasensitive and Fast Prostate-Specific Antigen Detection. <i>Journal of Sensors</i> , 2011, 2011, 1-7.	0.6	24

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73	Multimodal technique to eliminate humidity interference for specific detection of ethanol. <i>Biosensors and Bioelectronics</i> , 2017, 87, 522-530.	5.3	24
74	Hydrothermal Growth of Zinc Oxide (ZnO) Nanorods (NRs) on Screen Printed IDEs for pH Measurement Application. <i>Journal of the Electrochemical Society</i> , 2019, 166, B3264-B3270.	1.3	24
75	A planar micro-sensor for bio-impedance measurements. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 430-435.	4.0	23
76	Ultrasensitive electrochemical detection of cytokeratin-7, using Au nanowires based biosensor. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 859-865.	4.0	23
77	IoT Sensor Network Approach for Smart Farming: An Application in Food, Energy and Water System. , 2018, , .		23
78	Towards the development of reagent-free and reusable electrochemical aptamer-based cortisol sensor. <i>Bioelectrochemistry</i> , 2022, 145, 108098.	2.4	23
79	Antibody modified gold micro array electrode based electrochemical immunosensor for ultrasensitive detection of cortisol in saliva and ISF. <i>Procedia Engineering</i> , 2010, 5, 804-807.	1.2	22
80	Fabrication and current-voltage characteristics of NiOx/ZnO based MIIM tunnel diode. <i>Applied Surface Science</i> , 2015, 334, 197-204.	3.1	22
81	Nanostructured SnO ₂ integrated conductive fabrics as binder-free electrode for neurotransmitter detection. <i>Sensors and Actuators A: Physical</i> , 2018, 269, 401-411.	2.0	22
82	A micro-fluidic galvanic cell as an on-chip power source. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 406-413.	4.0	21
83	Biosensor for Monitoring Uric Acid in Wound and Its Proximity: A Potential Wound Diagnostic Tool. <i>Journal of the Electrochemical Society</i> , 2019, 166, B830-B836.	1.3	21
84	Manufacturing aspects of oxide nanowires. <i>Materials Letters</i> , 2010, 64, 729-732.	1.3	17
85	Real-time impedance analysis of silica nanowire toxicity on epithelial breast cancer cells. <i>Analyst, The</i> , 2012, 137, 5823.	1.7	16
86	Anti-Prostate Specific Antigen (Anti-PSA) Modified Interdigitated Microelectrode-Based Impedimetric Biosensor for PSA Detection. <i>Biosensors Journal</i> , 2012, 1, 1-7.	0.4	16
87	Studies on sputtering process of multicomponent Zr-Ti-Cu-Ni-Be alloy thin films. <i>Vacuum</i> , 2006, 80, 406-414.	1.6	15
88	Statistical Weight Kinetics Modeling and Estimation for Silica Nanowire Growth Catalyzed by Pd Thin Film. <i>IEEE Transactions on Automation Science and Engineering</i> , 2011, 8, 303-310.	3.4	15
89	Skin penetration and fracture strength testing of silicon dioxide microneedles. <i>Sensors and Actuators A: Physical</i> , 2011, 170, 180-186.	2.0	15
90	Optimized growth and integration of silica nanowires into interdigitated microelectrode structures for biosensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 29-33.	4.0	15

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91	Use of nanocrystalline diamond for microfluidic lab-on-a-chip. Diamond and Related Materials, 2006, 15, 2073-2077.	1.8	14
92	Probing human skin as an information-rich smart biological interface using MEMS sensors. Microelectronics Journal, 2002, 33, 121-127.	1.1	12
93	3D heterogeneous sensor system on a chip for defense and security applications. , 2004, , .		12
94	Evaluation of silicon nitride as a diffusion barrier for Gdâ€“Siâ€“Ge films on silicon. Surface and Coatings Technology, 2005, 200, 1335-1340.	2.2	12
95	Theoretical Studies of Cortisol-Imprinted Prepolymerization Mixtures: Structural Insights into Improving the Selectivity of Affinity Sensors. Journal of the Electrochemical Society, 2017, 164, B3077-B3080.	1.3	12
96	Fabrication of Integrated Vertical Mirror Surfaces and Transparent Window for Packaging MEMS Devices. Journal of Microelectromechanical Systems, 2007, 16, 122-129.	1.7	11
97	Variation in microneedle geometry to increase shear strength. Procedia Engineering, 2010, 5, 977-980.	1.2	11
98	A novel storage covert channel on wearable devices using status bar notifications. , 2016, , .		11
99	Fabric Based Wearable Biosensor for Continuous Monitoring of Steroids. ECS Transactions, 2017, 77, 1841-1846.	0.3	11
100	A Model for Safe Transport of Critical Patients in Unmanned Drones with a â€“Watchâ€™ Style Continuous Anesthesia Sensor. Journal of the Electrochemical Society, 2018, 165, B3071-B3077.	1.3	11
101	Plasma-Induced Enhancement in Electronic Properties of Gold Nanoparticles: Application in Electrochemical Biosensing of Cortisol. ACS Applied Electronic Materials, 2021, 3, 230-237.	2.0	11
102	Ion beam synthesis and doping of photonic nanostructures. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1362-1366.	0.6	10
103	Atmospheric Plasma Treatment Enhances the Biosensing Properties of Graphene Oxide-Silver Nanoparticle Composite. Journal of the Electrochemical Society, 2019, 166, B3084-B3090.	1.3	10
104	Ultrasensitive Voltammetric Detection of IL-10, a Lung Cancer Biomarker, in Serum Using SiO ₂ Nanowires Template. Sensor Letters, 2007, 5, 608-611.	0.4	10
105	Nanocrystalline Palladium Thin Films for Hydrogen Sensor Application. Sensor Letters, 2009, 7, 31-37.	0.4	10
106	Design, Fabrication, and Impedance Characterization of a Capacitance-Based Salinity Sensor for Marine Applications. Journal of the Electrochemical Society, 2008, 155, J355.	1.3	9
107	SILICON BASED VERTICAL MICRO-COAXIAL TRANSITION FOR HIGH FREQUENCY PACKAGING TECHNOLOGIES. Progress in Electromagnetics Research B, 2013, 50, 1-17.	0.7	9
108	Wearable alcohol monitoring device with auto-calibration ability for high chemical specificity. , 2016, , .		9

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109	Analysis of tumoral spheres growing in a multichamber microfluidic device. <i>Journal of Cellular Physiology</i> , 2018, 233, 6327-6336.	2.0	9
110	Hydrothermal Growth of Zinc Oxide (ZnO) Nanorods (NRs), Structural, and Chemical Composition Studies for pH Measurement Sensor Applications. <i>ECS Transactions</i> , 2018, 88, 437-447.	0.3	9
111	Nanocomposite Biezymatic Sensor for Monitoring Xanthine in Wound Diagnostics. <i>Journal of the Electrochemical Society</i> , 2019, 166, B3295-B3301.	1.3	9
112	A Fuel Cell Based Sensing Platform for Selective Detection of Acetone in Hyperglycemic Patients. <i>ECS Transactions</i> , 2017, 80, 1369-1378.	0.3	8
113	Effects of cold atmospheric plasma treatment on the morphological and optical properties of plasmonic silver nanoparticles. <i>Nanotechnology</i> , 2020, 31, 365706.	1.3	8
114	Skin Penetration of Silicon Dioxide Microneedle Arrays. , 2006, 2006, 4088-91.		7
115	Nanocrystalline diamond microspikes increase the efficiency of ultrasonic cell lysis in a microfluidic lab-on-a-chip. <i>Diamond and Related Materials</i> , 2009, 18, 606-610.	1.8	7
116	Thin Film Dual Probe Heat Pulse (DHP) Micro Heater Network for Soil Moisture Content Estimation in Smart Agriculture. <i>Journal of the Electrochemical Society</i> , 2019, 166, B63-B67.	1.3	7
117	<title>Resolving chemical/bio-compatibility issues in microfluidic MEMS systems</title>. , 1999, , .		6
118	Ultra-low power sensing platform for personal health and personal environmental monitoring. , 2015, , .		6
119	Validation of an Electrochemical Sensor to Detect Cortisol Responses to the Trier Social Stress Test. <i>Neurobiology of Stress</i> , 2020, 13, 100263.	1.9	6
120	Development of Nitrate-Selective Electrochemical Sensor with Integrated Micro-fluidics. , 2007, , .		5
121	Handheld interface for miniature sensors. , 2005, , .		4
122	Dielectric Properties of Novel Polyurethane/Silica Nanowire Composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5776-5784.	0.9	4
123	A Review of Engineering Approaches for Lymphedema Detection. <i>IEEE Reviews in Biomedical Engineering</i> , 2016, 9, 79-90.	13.1	4
124	Sonochemically Synthesized ZnO Nanostructure-Based L-Lactate Enzymatic Sensors on Flexible Substrates. <i>MRS Advances</i> , 2018, 3, 277-282.	0.5	4
125	Towards a wearable fuel cell sensor for transdermal monitoring of isoflurane “ an anesthetic. <i>Analytical Methods</i> , 2019, 11, 2007-2012.	1.3	4
126	Communication“Detection of Salivary Cortisol Using Zinc Oxide and Copper Porphyrin Composite Using Electrodeposition and Plasma-Assisted Deposition. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 061022.	0.9	4

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127	Bio-acceptability of wearable sensors: a mechanistic study towards evaluating ionic leaching induced cellular inflammation. Scientific Reports, 2022, 12, .	1.6	4
128	<title>Inter-layer vias and TESH interconnection network for a 3-D heterogeneous sensor system on a chip</title>. , 2005, , .		3
129	One pot, single step, room temperature dielectrophoretic deposition of gold nanoparticles clusters on polyethylene terephthalate substrate. Electrophoresis, 2013, 34, 1182-1188.	1.3	3
130	Towards a Long-Term Multi-Site Electrochemical Wound Monitoring System. , 2019, , .		3
131	Synthesis and Characterization of Amorphous Metallic Alloy Thin Films for MEMS Applications. Materials Research Society Symposia Proceedings, 2003, 806, 315.	0.1	2
132	Modeling multilayered MEMS-based micro-fluidic systems. Jom, 2004, 56, 57-61.	0.9	2
133	A low loss flexural plate wave (FPW) device through enhanced properties of solâ€gel PZT (52/48) thin film and stable TiN-Pt bottom electrode. Sensors and Actuators A: Physical, 2006, 132, 376-384.	2.0	2
134	Fabrication and Characterization of Thin-Film Metal-Insulator-Metal Diode for use in Rectenna as Infrared Detector. Materials Research Society Symposia Proceedings, 2006, 935, 1.	0.1	2
135	Design and validation of a multi-electrode bioimpedance system for enhancing spatial resolution of cellular impedance studies. Analyst, The, 2013, 138, 3728.	1.7	2
136	Ferroelectric like characteristics in redox active polymer of 5,10,15,20 tetra(4-hydroxyphenyl)-porphyrin at room temperature. Applied Physics Letters, 2013, 103, 033302.	1.5	2
137	Zinc oxide nanostructures for electrochemical cortisol biosensing. Proceedings of SPIE, 2014, , .	0.8	2
138	Textile Fiber Electrode to Monitor Uric Acid as a Marker for Assessing Wound Chronicity. ECS Transactions, 2017, 80, 1277-1286.	0.3	2
139	A wearable micro-fuel cell sensor for the determination of blood alcohol content (BAC): a multivariate regression model approach. ISSS Journal of Micro and Smart Systems, 2020, 9, 131-142.	1.0	2
140	Large Area Microfluidic Bioreactor for Production of Recombinant Protein. Biosensors, 2022, 12, 526.	2.3	2
141	Design and Fabrication of a Magnetocaloric Microcooler. , 2005, , 763.		1
142	Reinforced Pressure Sensor for Marine Environment. , 2007, , .		1
143	Development of Micro-Fluidic Nitrate-Selective Sensor Based on Polypyrrole Nanowires. , 2007, , .		1
144	Quantitative impedance analysis of nanowires and cancer cells. Procedia Engineering, 2010, 5, 842-845.	1.2	1

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145	Study of Growth Kinetics of Pd Metal Catalyzed Silica Nanowires for Biosensor Applications. Procedia Engineering, 2011, 25, 1577-1580.	1.2	1
146	Development of a through wafer 3D vertical micro-coaxial probe. Journal of Micromechanics and Microengineering, 2013, 23, 075029.	1.5	1
147	Growth of Silica Nanowires. , 2016, , 1404-1427.		1
148	<title>Probing human skin as an information-rich biological interface using MEMS-based informatics</title>. , 2001, 4235, 126.		0
149	<title>Development of ultrahigh-density micro gas discharge lamp array using coherent porous Si technology</title>. , 2001, , .		0
150	Growth of Silica Nanowires Catalysed by Pd Ion Implantation into Si(100). Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	0
151	Graphene. , 2012, , 968-978.		0
152	Effect of beam size, finite number of lines, and rotational misalignment on coupled subwavelength gratings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2603.	0.8	0
153	Self-powered wearable sensor platforms for wellness. , 2015, , .		0
154	5 Integrated Electronics, Analytical transducers, and Signal Processing. , 2016, , 139-160.		0
155	Materials and Surfaces in Microfluidic Biosensors. , 2016, , 145-164.		0
156	Nano-Composite Enzymatic Xanthine Biosensor for Wound Diagnostics. , 2018, , .		0
157	(Invited) Multimodal Enzymatic Sensing for Continuous Wound Monitoring. ECS Transactions, 2018, 88, 419-426.	0.3	0
158	A modular approach for development of miniature detection systems. , 2002, , .		0
159	Simulation and Experimental Validation of a Magnetocaloric Microcooler. , 2006, , .		0
160	The electrodeâ€electrolyte impedance spectroscopy measurements of cancer cell culture media and KCl (potassium chloride) while calibrating a system throughout a frequency range. FASEB Journal, 2010, 24, 503.4.	0.2	0
161	1 Nanobiotechnology: An Abrupt Merger. , 2016, , 1-42.		0
162	ZnO nanoflakes-based mediator free flexible biosensors for the selective detection of ethylglucuronide (EtG) and lactate. , 2018, , .		0

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163	Skin Penetration of Silicon Dioxide Microneedle Arrays. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0