

Shalini Prasad

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

196
papers

2,662
citations

27
h-index

42
g-index

218
ext. papers

3,331
ext. citations

4.8
avg, IF

5.92
L-index

#	Paper	IF	Citations
196	Guided neurite growth on patterned carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2005 , 106, 843-850	8.5	121
195	Portable biosensor for monitoring cortisol in low-volume perspired human sweat. <i>Scientific Reports</i> , 2017 , 7, 13312	4.9	114
194	Lancet-free and label-free diagnostics of glucose in sweat using Zinc Oxide based flexible bioelectronics. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 482-490	8.5	106
193	Biogenic nanoporous silica-based sensor for enhanced electrochemical detection of cardiovascular biomarkers proteins. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2336-42	11.8	102
192	A wearable biochemical sensor for monitoring alcohol consumption lifestyle through Ethyl glucuronide (EtG) detection in human sweat. <i>Scientific Reports</i> , 2016 , 6, 23111	4.9	88
191	Flexible nanoporous tunable electrical double layer biosensors for sweat diagnostics. <i>Scientific Reports</i> , 2015 , 5, 14586	4.9	85
190	A new paradigm in sweat based wearable diagnostics biosensors using Room Temperature Ionic Liquids (RTILs). <i>Scientific Reports</i> , 2017 , 7, 1950	4.9	68
189	Ultrasensitive nanostructure sensor arrays on flexible substrates for multiplexed and simultaneous electrochemical detection of a panel of cardiac biomarkers. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 764-772	11.8	61
188	CSF levels of oligomeric alpha-synuclein and beta-amyloid as biomarkers for neurodegenerative disease. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 1188-96	3.7	59
187	Screen Printed Graphene Oxide Textile Biosensor for Applications in Inexpensive and Wearable Point-of-Exposure Detection of Influenza for At-Risk Populations. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B3084-B3090	3.9	49
186	NanoMonitor: a miniature electronic biosensor for glycan biomarker detection. <i>Nanomedicine</i> , 2010 , 5, 369-78	5.6	47
185	Ultra-sensitive electrical immunoassay biosensors using nanotextured zinc oxide thin films on printed circuit board platforms. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 7-13	11.8	42
184	Ultrasensitive and low-volume point-of-care diagnostics on flexible strips - a study with cardiac troponin biomarkers. <i>Scientific Reports</i> , 2016 , 6, 33423	4.9	41
183	In Vitro Investigation of the Effect of Oral Bacteria in the Surface Oxidation of Dental Implants. <i>Clinical Implant Dentistry and Related Research</i> , 2015 , 17 Suppl 2, e562-75	3.9	41
182	Development of nanostructured biomedical micro-drug testing device based on in situ cellular activity monitoring. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1219-29	11.8	40
181	Separation of individual neurons using dielectrophoretic alternative current fields. <i>Journal of Neuroscience Methods</i> , 2004 , 135, 79-88	3	40
180	Review Room-Temperature Ionic Liquids for Electrochemical Application with Special Focus on Gas Sensors. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037511	3.9	38

179	Simultaneous lancet-free monitoring of alcohol and glucose from low-volumes of perspired human sweat. <i>Scientific Reports</i> , 2018 , 8, 6507	4.9	37
178	A review on ZnO-based electrical biosensors for cardiac biomarker detection. <i>Future Science OA</i> , 2017 , 3, FSO196	2.7	36
177	Electrochemical nanostructured ZnO biosensor for ultrasensitive detection of cardiac troponin-T. <i>Nanomedicine</i> , 2016 , 11, 1345-58	5.6	35
176	Nanoporous impedemetric biosensor for detection of trace atrazine from water samples. <i>Biosensors and Bioelectronics</i> , 2012 , 32, 155-62	11.8	34
175	CLASP (Continuous lifestyle awareness through sweat platform): A novel sensor for simultaneous detection of alcohol and glucose from passive perspired sweat. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 537-545	11.8	33
174	Nanostructured surfaces for enhanced protein detection toward clinical diagnostics. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010 , 6, 642-50	6	31
173	Nanomonitors: electrical immunoassays for protein biomarker profiling. <i>Nanomedicine</i> , 2008 , 3, 423-36	5.6	30
172	Flex-GO (Flexible graphene oxide) sensor for electrochemical monitoring lactate in low-volume passive perspired human sweat. <i>Talanta</i> , 2020 , 214, 120810	6.2	29
171	Electrical double layer modulation of hybrid room temperature ionic liquid/aqueous buffer interface for enhanced sweat based biosensing. <i>Analytica Chimica Acta</i> , 2018 , 1016, 29-39	6.6	28
170	Iridium oxide nanomonitors: clinical diagnostic devices for health monitoring systems. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 3078-83	11.8	27
169	Sub-picomolar label-free detection of thrombin using electrochemical impedance spectroscopy of aptamer-functionalized MoS. <i>Analyst, The</i> , 2017 , 142, 2770-2780	5	26
168	Silicon nanosensor for diagnosis of cardiovascular proteomic markers. <i>Journal of the Association for Laboratory Automation</i> , 2013 , 18, 143-51		26
167	A Sweat-based Wearable Enabling Technology for Real-time Monitoring of IL-1 and CRP as Potential Markers for Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2020 , 26, 1533-1542	4.5	26
166	Multiplexed electrochemical detection of three cardiac biomarkers cTnI, cTnT and BNP using nanostructured ZnO-sensing platform. <i>Future Cardiology</i> , 2018 , 14, 131-141	1.3	25
165	Cardiac troponin biosensors: where are we now?. <i>Advanced Health Care Technologies</i> , 2018 , Volume 4, 1-13		24
164	Nanochannel-based electrochemical sensor for the detection of pharmaceutical contaminants in water. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 135-40	4.3	24
163	Nanosensor electrical immunoassay for quantitative detection of NT-pro brain natriuretic peptide. <i>Future Cardiology</i> , 2013 , 9, 137-47	1.3	23
162	Influence of samaria doping on the resistance of ceria thin films and its implications to the planar oxygen sensing devices. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 380-386	8.5	23

161	Carbon nanotube based aliphatic hydrocarbon sensor. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 829-37	11.8	23
160	Development of ultra-low volume, multi-bio fluid, cortisol sensing platform. <i>Scientific Reports</i> , 2018 , 8, 16745	4.9	23
159	Ultrasensitive and Rapid-Response Sensor for the Electrochemical Detection of Antibiotic Residues within Meat Samples. <i>ACS Omega</i> , 2019 , 4, 6324-6330	3.9	22
158	Non-faradaic electrochemical impedimetric profiling of procalcitonin and C-reactive protein as a dual marker biosensor for early sepsis detection. <i>Analytica Chimica Acta: X</i> , 2019 , 3, 100029	2.2	21
157	Development of a flexible, sweat-based neuropeptide Y detection platform.. <i>RSC Advances</i> , 2020 , 10, 23173-23186	3.7	21
156	A Four-Channel Electrical Impedance Spectroscopy Module for Cortisol Biosensing in Sweat-Based Wearable Applications. <i>SLAS Technology</i> , 2018 , 23, 529-539	3	21
155	Monitoring drug induced apoptosis and treatment sensitivity in non-small cell lung carcinoma using dielectrophoresis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 1877-83	4	21
154	. <i>IEEE Sensors Journal</i> , 2008 , 8, 720-723	4	21
153	SLOCK (sensor for circadian clock): passive sweat-based chronobiology tracker. <i>Lab on A Chip</i> , 2020 , 20, 1947-1960	7.2	20
152	CortiWatch: Watch-based cortisol tracker. <i>Future Science OA</i> , 2019 , 5, FSO416	2.7	20
151	Theoretical consideration on the formation of nanotube following the Kirkendall effect. <i>Applied Physics Letters</i> , 2007 , 90, 233114	3.4	20
150	A Rapid Response Electrochemical Biosensor for Detecting Thc In Saliva. <i>Scientific Reports</i> , 2019 , 9, 12704	4.9	19
149	A novel approach for electrical tuning of nano-textured zinc oxide surfaces for ultra-sensitive troponin-T detection. <i>Analytical Methods</i> , 2015 , 7, 10136-10144	3.2	19
148	Electric Field Assisted Patterning of Neuronal Networks for the Study of Brain Functions. <i>Biomedical Microdevices</i> , 2003 , 5, 125-137	3.7	19
147	Autonomous, Real-Time Monitoring Electrochemical Aptasensor for Circadian Tracking of Cortisol Hormone in Sub-microliter Volumes of Passively Eluted Human Sweat. <i>ACS Sensors</i> , 2021 , 6, 63-72	9.2	19
146	Flexible Molybdenum Electrodes towards Designing Affinity Based Protein Biosensors. <i>Biosensors</i> , 2016 , 6,	5.9	18
145	CLIP: Carbon Dioxide testing suitable for Low power microelectronics and IOT interfaces using Room temperature Ionic Liquid Platform. <i>Scientific Reports</i> , 2020 , 10, 2557	4.9	17
144	Antibody-conjugated gold nanoparticle-based immunosensor for ultra-sensitive detection of troponin-T. <i>Journal of the Association for Laboratory Automation</i> , 2014 , 19, 546-54		17

143	Integrated experimental and modeling study of the ionic conductivity of samaria-doped ceria thin films. <i>Solid State Ionics</i> , 2011 , 204-205, 13-19	3.3	17
142	Neuron-based microarray sensors for environmental sensing. <i>Electrophoresis</i> , 2004 , 25, 3746-60	3.6	17
141	Flexible, low volume detection of chronobiology biomarkers from human sweat. <i>Analyst, The</i> , 2020 , 145, 784-796	5	17
140	Electrochemical impedimetric biosensors, featuring the use of Room Temperature Ionic Liquids (RTILs): Special focus on non-faradaic sensing. <i>Biosensors and Bioelectronics</i> , 2021 , 177, 112940	11.8	17
139	Neurons as sensors: individual and cascaded chemical sensing. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1599-610	11.8	16
138	Enzymatic Low Volume Passive Sweat Based Assays for Multi-Biomarker Detection. <i>Biosensors</i> , 2019 , 9,	5.9	15
137	Design and Electrochemical Characterization of Spiral Electrochemical Notification Coupled Electrode (SENCE) Platform for Biosensing Application. <i>Micromachines</i> , 2020 , 11,	3.3	15
136	Multiplexed cytokine detection using electrochemical point-of-care sensing device towards rapid sepsis endotyping. <i>Biosensors and Bioelectronics</i> , 2021 , 171, 112726	11.8	15
135	Companion and Point-of-Care Sensor System for Rapid Multiplexed Detection of a Panel of Infectious Disease Markers. <i>SLAS Technology</i> , 2017 , 22, 338-347	3	14
134	Investigation of molybdenum-crosslinker interfaces for affinity based electrochemical biosensing applications. <i>Applied Surface Science</i> , 2018 , 436, 441-450	6.7	14
133	An electrochemical sensor for the detection of antibiotic contaminants in water. <i>Analytical Methods</i> , 2013 , 5, 4325	3.2	14
132	Thickness Dependency of Thin-Film Samaria-Doped Ceria for Oxygen Sensing. <i>IEEE Sensors Journal</i> , 2011 , 11, 217-224	4	14
131	Fabrication of Submicron IrO ₂ Nanowire Array Biosensor Platform by Conventional Complementary MetalOxideSemiconductor Process. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1147-1151	1.4	13
130	A Robust Electrochemical CO ₂ Sensor Utilizing Room Temperature Ionic Liquids. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 826-831	2.6	12
129	Novel Nanomonitor ultra-sensitive detection of troponin T. <i>Clinica Chimica Acta</i> , 2015 , 442, 96-101	6.2	12
128	A Robust Electrochemical Humidity Sensor for the Detection of Relative Humidity Using Room Temperature Ionic Liquid (RTIL) for Integration in Semiconductor IC's. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, Q3043-Q3048	2	12
127	Surface modification of ZnO nanostructured electrodes with thiol and phosphonic acid moieties for biosensing applications. <i>Analytical Methods</i> , 2017 , 9, 5525-5533	3.2	12
126	A Combinatorial Electrochemical Biosensor for Sweat Biomarker Benchmarking. <i>SLAS Technology</i> , 2020 , 25, 25-32	3	12

125	Portable nanoporous electrical biosensor for ultrasensitive detection of Troponin-T. <i>Future Science OA</i> , 2015 , 1, FSO24	2.7	11
124	Development and validation of an impedance biosensor for point-of-care detection of vascular cell adhesion molecule-1 toward lupus diagnostics. <i>Future Science OA</i> , 2017 , 3, FSO224	2.7	11
123	Nanotextured organic light emitting diode based chemical sensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6299-306	1.3	11
122	ElectrochemSENSE: A platform towards field deployable direct on-produce glyphosate detection. <i>Biosensors and Bioelectronics</i> , 2020 , 170, 112609	11.8	11
121	The Anatomy of a Nonfaradaic Electrochemical Biosensor. <i>SLAS Technology</i> , 2018 , 23, 5-15	3	11
120	Non-invasive monitoring of a circadian relevant biomarker from easily accessible body fluids using hybrid aqueous/boric buffer interfaces on flexible substrates. <i>Analytical Methods</i> , 2019 , 11, 1180-1191	3.2	10
119	Portable Chronic Alcohol Consumption Monitor in Human Sweat through Square-Wave Voltammetry. <i>SLAS Technology</i> , 2018 , 23, 144-153	3	10
118	Passively Addressable Ultra-Low Volume Sweat Chloride Sensor. <i>Sensors</i> , 2019 , 19,	3.8	10
117	Characterization of Room-Temperature Ionic Liquids to Study the Electrochemical Activity of Nitro Compounds. <i>Sensors</i> , 2020 , 20,	3.8	9
116	Rapid electrochemical device for single-drop point-of-use screening of parathyroid hormone. <i>Bioelectronics in Medicine</i> , 2019 , 2, 13-27	2.1	9
115	Improved Performance of Glucose Bioanodes Using Composites of (7,6) Single-Walled Carbon Nanotubes and a Ferrocene-LPEI Redox Polymer. <i>Langmuir</i> , 2017 , 33, 7591-7599	4	9
114	Design of a high sensitive non-faradaic impedimetric sensor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3251-4	0.9	9
113	Temporal profiling of cytokines in passively expressed sweat for detection of infection using wearable device. <i>Bioengineering and Translational Medicine</i> , 2021 , 6, e10220	14.8	9
112	Fully electronic urine dipstick probe for combinatorial detection of inflammatory biomarkers. <i>Future Science OA</i> , 2018 , 4, FSO301	2.7	8
111	AWARE: A Wearable Awareness with Real-time Exposure, for monitoring alcohol consumption impact through ethyl glucuronide detection. <i>Alcohol</i> , 2019 , 81, 93-99	2.7	8
110	Interfacial Tuning for Detection of Cortisol in Sweat Using ZnO Thin Films on Flexible Substrates. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 832-836	2.6	7
109	Electrical nanowell diagnostics sensors for rapid and ultrasensitive detection of prostate-specific antigen. <i>Nanomedicine</i> , 2015 , 10, 2527-36	5.6	7
108	Fluorinated Anionic Room Temperature Ionic Liquid-Based CO ₂ Electrochemical Sensing. <i>IEEE Sensors Journal</i> , 2018 , 18, 3517-3523	4	7

107	Versatile Duplex Electrochemical Sensor for the Detection of CO ₂ and Relative Humidity Using Room Temperature Ionic Liquid. <i>ECS Transactions</i> , 2018 , 85, 751-765	1	7
106	2D dielectrophoretic signature of <i>Coscinodiscus wailesii</i> algae in non-uniform electric fields. <i>Algal Research</i> , 2017 , 27, 109-114	5	7
105	STUDY OF NANOPOROUS MEMBRANES WITH APPLICATIONS IN THE ENHANCED DETECTION OF CARDIOVASCULAR BIOMARKER PROTEINS. <i>Nano LIFE</i> , 2010 , 01, 175-183	0.9	7
104	Cascaded Chemical Sensing Using a Single Cell as a Sensor. <i>Sensor Letters</i> , 2004 , 2, 1-8	0.9	7
103	Establish pre-clinical diagnostic efficacy for parathyroid hormone as a point-of-surgery-testing-device (POST). <i>Scientific Reports</i> , 2020 , 10, 18804	4.9	7
102	M.A.T.H: Methanol vapor analytics through handheld sensing platform. <i>Electrochimica Acta</i> , 2021 , 368, 137624	6.7	7
101	Randles Circuit Analysis Toward Investigating Interfacial Effects on Microchannel Electrodes 2018 , 2, 1-4		6
100	The heritable effects of nanotoxicity. <i>Nanomedicine</i> , 2014 , 9, 2829-2841	5.6	6
99	ZENose (ZIF-Based Electrochemical Nose) Platform for Noninvasive Ammonia Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16155-16165	9.5	6
98	Evidence-based point-of-care technology development during the COVID-19 pandemic. <i>BioTechniques</i> , 2021 , 70, 58-67	2.5	6
97	Next-Generation Continuous Metabolite Sensing toward Emerging Sensor Needs. <i>ACS Omega</i> , 2021 , 6, 6031-6040	3.9	6
96	Sweating Out the Circadian Rhythm: A Technical Review. <i>ACS Sensors</i> , 2021 , 6, 659-672	9.2	6
95	CATCH (Cortisol Apta WATCH): Bio-mimic alarm to track Anxiety, Stress, Immunity in human sweat. <i>Electrochimica Acta</i> , 2021 , 390, 138834	6.7	6
94	Emerging Electrochemical Biosensing Trends for Rapid Diagnosis of COVID-19 Biomarkers as Point-of-Care Platforms: A Critical Review.. <i>ACS Omega</i> , 2022 , 7, 12467-12473	3.9	6
93	The detection of papaya ringspot virus coat protein using an electrochemical immunosensor. <i>Analytical Methods</i> , 2016 , 8, 8534-8541	3.2	5
92	Management options for solitary thyroid nodules in an endemic goitrous area. <i>Postgraduate Medical Journal</i> , 1997 , 73, 560-4	2	5
91	Electrical Immunoassays toward Clinical Diagnostics: Identification of Vulnerable Cardiovascular Plaque. <i>Journal of the Association for Laboratory Automation</i> , 2008 , 13, 33-39		5
90	Point-of-use sweat biosensor to track the endocrine-inflammation relationship for chronic disease monitoring. <i>Future Science OA</i> , 2020 , 7, FSO628	2.7	5

89	On-demand lactate monitoring towards assessing physiological responses in sedentary populations. <i>Analyst, The</i> , 2021 , 146, 3482-3492	5	5
88	An approach to rapidly assess sepsis through multi-biomarker host response using machine learning algorithm. <i>Scientific Reports</i> , 2021 , 11, 16905	4.9	5
87	Use of dicationic ionic liquids as a novel liquid platform for dielectrophoretic cell manipulation. <i>RSC Advances</i> , 2016 , 6, 22594-22603	3.7	4
86	Tuning SLOCK toward Chronic Disease Diagnostics and Management: Label-free Sweat Interleukin-31 Detection. <i>ACS Omega</i> , 2021 , 6, 20422-20432	3.9	4
85	Evolution in Biosensors for Cancers Biomarkers Detection: A Review. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021 , 7, 1	2.9	4
84	Patterned Polymer Nanofibers Based Biosensors. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1358, 30701		3
83	Nanoporous Membrane-Based Microfluidic Biosensors 2010 , 47-90		3
82	MULTIWALLED CARBON NANOTUBE-BASED AROMATIC HYDROCARBON SENSOR USING ELECTRONIC DIPOLE SPECTROSCOPY. <i>Chemical Engineering Communications</i> , 2007 , 195, 115-128	2.2	3
81	Micro-photonic cylindrical waveguide based protein biosensor. <i>Nanotechnology</i> , 2006 , 17, 4384-4390	3.4	3
80	Association of different prediction methods for determination of the efficiency and selectivity on neuron-based sensors. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1045-58	11.8	3
79	Acquiring and Classifying Signals from Nanopores and Ion-Channels. <i>Lecture Notes in Computer Science</i> , 2009 , 265-274	0.9	3
78	Tracking metabolic responses based on macronutrient consumption: A comprehensive study to continuously monitor and quantify dual markers (cortisol and glucose) in human sweat using WATCH sensor. <i>Bioengineering and Translational Medicine</i> , 2021 , 6, e10241	14.8	3
77	Interfacial tuning for detection of cortisol in sweat using ZnO thin films for wearable biosensing 2016 ,		3
76	Demonstration of sweat-based circadian diagnostic capability of SLOCK using electrochemical detection modalities.. <i>RSC Advances</i> , 2021 , 11, 7750-7765	3.7	3
75	A machine learning-based on-demand sweat glucose reporting platform.. <i>Scientific Reports</i> , 2022 , 12, 2442	4.9	3
74	Portable impedance measurement device for sweat based glucose detection 2017 ,		2
73	EFFECT OF SIZE MATCHING FOR ULTRASENSITIVE DETECTION OF PROTEIN BIOMARKERS. <i>Nano LIFE</i> , 2013 , 03, 1343008	0.9	2
72	Transform domain features for ion-channel signal classification using support vector machines 2009 ,		2

71	Electromigration of Charged Polystyrene Beads Through Silicon Nanopores Filled With Low Ionic Strength Solutions 2009 ,		2
70	Nanoporous noninvasive cellular electrical activity-based analysis devices. <i>Clinics in Laboratory Medicine</i> , 2007 , 27, 75-91	2.1	2
69	Towards crossbar nanoarray structure via microcontact printing. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1951-8	1.3	2
68	Silicon Based Pore Systems for Emerging Biosensor Applications 2009 ,		2
67	Detection of Cardiovascular CRP Protein Biomarker Using a Novel Nanofibrous Substrate. <i>Biosensors</i> , 2020 , 10,	5.9	2
66	A Highly Sensitive Electrochemical Sensor System to Detect and Distinguish Between Glyphosate and Glufosinate. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 057531	3.9	2
65	Sweat Based-Multiplexed Detection of NPY-Cortisol for Disease Diagnostics and Stress Management. <i>Electroanalysis</i> ,	3	2
64	Label-Free Protein Glycosylation Analysis Using NanoMonitor-An Ultrasensitive Electrochemical Biosensor. <i>Current Protocols</i> , 2021 , 1, e150		2
63	ZEUS (ZIF-based electrochemical ultrasensitive screening) device for isopentane analytics with focus on lung cancer diagnosis.. <i>RSC Advances</i> , 2021 , 11, 20519-20528	3.7	2
62	SMART Biosensor for Early Diagnostic Detection of Metal Ion Release in Orthopedic Patients: Initial Outcome. <i>Journal of Bio- and Tribo-Corrosion</i> , 2018 , 4, 1	2.9	2
61	Novel technique for sleep apnea monitoring 2015 ,		1
60	Planar biochip system for combinatorial electrokinetics. <i>Biochip Journal</i> , 2016 , 10, 131-139	4	1
59	Tailoring of Nanotextured Zinc Oxide Thin Films for Enhanced Biosensing. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1690, 14		1
58	Zinc Oxide Nanostructures as Electrochemical Biosensors on Flexible Substrates 2015 ,		1
57	Cellular level classification of breast cancer through proteomic markers using nanochannel array sensors. <i>Nanomedicine</i> , 2014 , 9, 1957-70	5.6	1
56	Analysis of nanotextured ZnO surfaces for biosensing applications 2014 ,		1
55	Signal processing for biologically inspired sensors 2010 ,		1
54	Performance Evaluation of an Oxygen Sensor as a Function of the Samaria Doped Ceria Film Thickness. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1209, 1		1

53	A nanomonitor compared to ELISA for C-reactive protein detection in patient blood 2011 ,		1
52	Multiwalled Carbon Nanotube Crossbar Junction Formation via Microcontact Printing. <i>Journal of the Association for Laboratory Automation</i> , 2008 , 13, 49-53		1
51	Nanoporous Noninvasive Cellular Electrical Activity-Based Analysis Devices. <i>Journal of the Association for Laboratory Automation</i> , 2006 , 11, 65-74		1
50	Electric Field-Assisted Positioning of Neurons on Pt Microelectrode Arrays. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 773, 461		1
49	ZeNose/GO hybrid composite for detection of clinically relevant VOCs in lower respiratory tract (Case study using Carene). <i>Materials Letters</i> , 2022 , 307, 130975	3.3	1
48	Electronic bracelet for monitoring of alcohol lifestyle 2016 ,		1
47	Carbon Nanotubes: Synthesis and Characterization 2018 , 575-596		1
46	Label Free, Lateral Flow Prostaglandin E2 Electrochemical Immunosensor for Urinary Tract Infection Diagnosis. <i>Chemosensors</i> , 2021 , 9, 271	4	1
45	FLOCK -flare clock: Passive sweat-based eczematous flare detection system. <i>Biosensors and Bioelectronics: X</i> , 2022 , 10, 100120	2.9	0
44	An observational study for detection and quantification of interferon- γ in sweat toward inflammation monitoring. <i>Biosensors and Bioelectronics: X</i> , 2022 , 10, 100122	2.9	0
43	Electrochemical Visualization of Room Temperature Ionic Liquid for the Detection of Functionalized 1-phenylpyridine Analogue in Mixed Sample. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 137507	3.9	0
42	Exploring the Role of Room Temperature Ionic Liquid as a Transducer in Electrochemical Soil Probing: A case study with [BMIM] [BF4]. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 037505	3.9	0
41	Combinatorial Sensors: An Integrated Approach to Lifestyle Management and Environmental Surveillance 2021 ,		0
40	Novel Approach to Track the Lifecycle of Inflammation from Chemokine Expression to Inflammatory Proteins in Sweat Using Electrochemical Biosensor. <i>Advanced Materials Technologies</i> , 2021 , 2101356	6.8	0
39	E.Co.Tech-electrochemical handheld breathalyzer COVID sensing technology.. <i>Scientific Reports</i> , 2022 , 12, 4370	4.9	0
38	EBC-SURE (exhaled breath condensate- scanning using rapid electro analytics): A non-faradaic and non-invasive electrochemical assay to screen for pro-inflammatory biomarkers in human breath condensate.. <i>Biosensors and Bioelectronics</i> , 2022 , 206, 114117	11.8	0
37	AptaStrensor (aptamer-based sensor for stress monitoring): The interrelationship between NPY and cortisol towards chronic disease monitoring. <i>Biosensors and Bioelectronics: X</i> , 2022 , 10, 100145	2.9	0
36	Multiplexed host immune response biosensor for rapid sepsis stratification and endotyping at point-of-care. <i>Biosensors and Bioelectronics: X</i> , 2022 , 10, 100144	2.9	0

- 35 A novel single step method to rapidly screen for metal contaminants in beverages, a case study with aluminum. *Environmental Technology and Innovation*, **2022**, 102691 7 0
- 34 Companion and Point-of-Care Sensor System for Rapid Multiplexed Detection of a Panel of Infectious Disease Markers. *SLAS Technology*, **2017**, 247263031769677 3
- 33 Electro-kinetically assisted liposomal drug delivery system for characterization of ex-vivo cell-drug interactions. *Materials Research Society Symposia Proceedings*, **2014**, 1688, 27
- 32 Functional Materials: For Sensing/Diagnostics **2017**, 151-174
- 31 Electrically Tunable Ultra-specific Zinc Oxide Biosensor. *Materials Research Society Symposia Proceedings*, **2015**, 1720, 33
- 30 Single-phase dielectrophoretic and electrorotation studies using three dimensional electrodes for cell characterization. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 1007-20 0.9
- 29 Design of nano webs for hybrid sensor devices. *Materials Research Society Symposia Proceedings*, **2014**, 1690, 8
- 28 Rapid and Sensitive Detection of Nano-fluidically Trapped Protein Biomarkers. *Materials Research Society Symposia Proceedings*, **2014**, 1686, 14
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