

Shalini Prasad

List of Publications by Year in descending order

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Version: 2024-02-01

212
papers

4,077
citations

117453

34
h-index

168136

53
g-index

218
all docs

218
docs citations

218
times ranked

4233
citing authors

#	ARTICLE	IF	CITATIONS
1	Portable biosensor for monitoring cortisol in low-volume perspired human sweat. <i>Scientific Reports</i> , 2017, 7, 13312.	1.6	164
2	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.	4.0	142
3	Guided neurite growth on patterned carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 843-850.	4.0	130
4	Biogenic nanoporous silica-based sensor for enhanced electrochemical detection of cardiovascular biomarkers proteins. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2336-2342.	5.3	122
5	Flexible nanoporous tunable electrical double layer biosensors for sweat diagnostics. <i>Scientific Reports</i> , 2015, 5, 14586.	1.6	111
6	A wearable biochemical sensor for monitoring alcohol consumption lifestyle through Ethyl glucuronide (EtG) detection in human sweat. <i>Scientific Reports</i> , 2016, 6, 23111.	1.6	109
7	A new paradigm in sweat based wearable diagnostics biosensors using Room Temperature Ionic Liquids (RTILs). <i>Scientific Reports</i> , 2017, 7, 1950.	1.6	98
8	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.	5.3	75
9	CSF levels of oligomeric alpha-synuclein and beta-amyloid as biomarkers for neurodegenerative disease. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 1188-1196.	0.6	72
10	Review "Room-Temperature Ionic Liquids for Electrochemical Application with Special Focus on Gas Sensors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037511.	1.3	70
11	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.	1.3	64
12	A review on ZnO-based electrical biosensors for cardiac biomarker detection. <i>Future Science OA</i> , 2017, 3, FSO196.	0.9	61
13	NanoMonitor: a miniature electronic biosensor for glycan biomarker detection. <i>Nanomedicine</i> , 2010, 5, 369-378.	1.7	59
14	Simultaneous lancet-free monitoring of alcohol and glucose from low-volumes of perspired human sweat. <i>Scientific Reports</i> , 2018, 8, 6507.	1.6	59
15	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, e562-75.	1.6	57
16	Ultrasensitive and low-volume point-of-care diagnostics on flexible strips " a study with cardiac troponin biomarkers. <i>Scientific Reports</i> , 2016, 6, 33423.	1.6	57
17	A Sweat-based Wearable Enabling Technology for Real-time Monitoring of IL-1 β and CRP as Potential Markers for Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2020, 26, 1533-1542.	0.9	56
18	Flex-GO (Flexible graphene oxide) sensor for electrochemical monitoring lactate in low-volume passive perspired human sweat. <i>Talanta</i> , 2020, 214, 120810.	2.9	55

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19	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.	5.3	52
20	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.	4.0	52
21	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.	5.3	51
22	Multiplexed cytokine detection using electrochemical point-of-care sensing device towards rapid sepsis endotyping. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112726.	5.3	51
23	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.	5.3	50
24	Nanoporous impedimetric biosensor for detection of trace atrazine from water samples. <i>Biosensors and Bioelectronics</i> , 2012, 32, 155-162.	5.3	47
25	Non-faradaic electrochemical impedimetric profiling of procalcitonin and C-reactive protein as a dual marker biosensor for early sepsis detection. <i>Analytica Chimica Acta</i> : X, 2019, 3, 100029.	2.8	47
26	Development of nanostructured biomedical micro-drug testing device based on in situ cellular activity monitoring. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1219-1229.	5.3	46
27	Sub-picomolar label-free detection of thrombin using electrochemical impedance spectroscopy of aptamer-functionalized MoS ₂ . <i>Analyst</i> , The, 2017, 142, 2770-2780.	1.7	44
28	A Rapid Response Electrochemical Biosensor for Detecting Thc In Saliva. <i>Scientific Reports</i> , 2019, 9, 12701.	1.6	44
29	Temporal profiling of cytokines in passively expressed sweat for detection of infection using wearable device. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10220.	3.9	44
30	Separation of individual neurons using dielectrophoretic alternative current fields. <i>Journal of Neuroscience Methods</i> , 2004, 135, 79-88.	1.3	42
31	Electrochemical nanostructured ZnO biosensor for ultrasensitive detection of cardiac troponin-T. <i>Nanomedicine</i> , 2016, 11, 1345-1358.	1.7	41
32	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.	2.6	40
33	CortiWatch: A watch-based cortisol tracker. <i>Future Science OA</i> , 2019, 5, FSO416.	0.9	40
34	Cardiac troponin biosensors: where are we now?. <i>Advanced Health Care Technologies</i> , 0, Volume 4, 1-13.	1.4	38
35	Development of a flexible, sweat-based neuropeptide Y detection platform. <i>RSC Advances</i> , 2020, 10, 23173-23186.	1.7	36
36	Nanomonitors: electrical immunoassays for protein biomarker profiling. <i>Nanomedicine</i> , 2008, 3, 423-436.	1.7	35

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37	Development of ultra-low volume, multi-bio fluid, cortisol sensing platform. <i>Scientific Reports</i> , 2018, 8, 16745.	1.6	34
38	Ultrasensitive and Rapid-Response Sensor for the Electrochemical Detection of Antibiotic Residues within Meat Samples. <i>ACS Omega</i> , 2019, 4, 6324-6330.	1.6	34
39	Nanostructured surfaces for enhanced protein detection toward clinical diagnostics. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 642-650.	1.7	33
40	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.	1.6	33
41	A Four-Channel Electrical Impedance Spectroscopy Module for Cortisol Biosensing in Sweat-Based Wearable Applications. <i>SLAS Technology</i> , 2018, 23, 529-539.	1.0	32
42	SLOCK (sensor for circadian clock): passive sweat-based chronobiology tracker. <i>Lab on A Chip</i> , 2020, 20, 1947-1960.	3.1	32
43	CATCH (Cortisol Apta WATCH): "Bio-mimic alarm"™ to track Anxiety, Stress, Immunity in human sweat. <i>Electrochimica Acta</i> , 2021, 390, 138834.	2.6	32
44	Nanochannel-based electrochemical sensor for the detection of pharmaceutical contaminants in water. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 135-140.	1.7	31
45	Multiplexed electrochemical detection of three cardiac biomarkers cTnl, cTnT and BNP using nanostructured ZnO-sensing platform. <i>Future Cardiology</i> , 2018, 14, 131-141.	0.5	31
46	Neurons as sensors: individual and cascaded chemical sensing. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1599-1610.	5.3	30
47	ElectrochemSENSE: A platform towards field deployable direct on-produce glyphosate detection. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112609.	5.3	30
48	Design and Electrochemical Characterization of Spiral Electrochemical Notification Coupled Electrode (SENCE) Platform for Biosensing Application. <i>Micromachines</i> , 2020, 11, 333.	1.4	29
49	Carbon nanotube based aliphatic hydrocarbon sensor. <i>Biosensors and Bioelectronics</i> , 2007, 22, 829-837.	5.3	28
50	Electrical Immunoassays toward Clinical Diagnostics: Identification of Vulnerable Cardiovascular Plaque. <i>Journal of the Association for Laboratory Automation</i> , 2008, 13, 33-39.	2.8	28
51	Iridium oxide nanomonitors: Clinical diagnostic devices for health monitoring systems. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3078-3083.	5.3	28
52	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, 1877-1883.	1.1	28
53	Silicon Nanosensor for Diagnosis of Cardiovascular Proteomic Markers. <i>Journal of the Association for Laboratory Automation</i> , 2013, 18, 143-151.	2.8	27
54	Flexible, low volume detection of chronobiology biomarkers from human sweat. <i>Analyst, The</i> , 2020, 145, 784-796.	1.7	27

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55	ZENose (ZIF-Based Electrochemical Nose) Platform for Noninvasive Ammonia Detection. ACS Applied Materials & Interfaces, 2021, 13, 16155-16165.	4.0	27
56	Influence of samaria doping on the resistance of ceria thin films and its implications to the planar oxygen sensing devices. Sensors and Actuators B: Chemical, 2009, 139, 380-386.	4.0	26
57	Nanosensor electrical immunoassay for quantitative detection of NT-pro brain natriuretic peptide. Future Cardiology, 2013, 9, 137-147.	0.5	26
58	Electric Field Assisted Patterning of Neuronal Networks for the Study of Brain Functions. Biomedical Microdevices, 2003, 5, 125-137.	1.4	25
59	Nanomonitors: Protein Biosensors for Rapid Analyte Analysis. IEEE Sensors Journal, 2008, 8, 720-723.	2.4	25
60	A Combinatorial Electrochemical Biosensor for Sweat Biomarker Benchmarking. SLAS Technology, 2020, 25, 25-32.	1.0	25
61	A machine learning-based on-demand sweat glucose reporting platform. Scientific Reports, 2022, 12, 2442.	1.6	25
62	Antibody-Conjugated Gold Nanoparticle-Based Immunosensor for Ultra-Sensitive Detection of Troponin-T. Journal of the Association for Laboratory Automation, 2014, 19, 546-554.	2.8	24
63	Enzymatic Low Volume Passive Sweat Based Assays for Multi-Biomarker Detection. Biosensors, 2019, 9, 13.	2.3	24
64	CLIP: Carbon Dioxide testing suitable for Low power microelectronics and IOT interfaces using Room temperature Ionic Liquid Platform. Scientific Reports, 2020, 10, 2557.	1.6	24
65	A novel approach for electrical tuning of nano-textured zinc oxide surfaces for ultra-sensitive troponin-T detection. Analytical Methods, 2015, 7, 10136-10144.	1.3	23
66	Theoretical consideration on the formation of nanotube following the Kirkendall effect. Applied Physics Letters, 2007, 90, 233114.	1.5	21
67	Companion and Point-of-Care Sensor System for Rapid Multiplexed Detection of a Panel of Infectious Disease Markers. SLAS Technology, 2017, 22, 338-347.	1.0	20
68	Neuron-based microarray sensors for environmental sensing. Electrophoresis, 2004, 25, 3746-3760.	1.3	19
69	Fabrication of Submicron IrO ₂ Nanowire Array Biosensor Platform by Conventional Complementary Metalâ€“Oxideâ€“Semiconductor Process. Japanese Journal of Applied Physics, 2008, 47, 1147-1151.	0.8	19
70	Investigation of molybdenum-crosslinker interfaces for affinity based electrochemical biosensing applications. Applied Surface Science, 2018, 436, 441-450.	3.1	19
71	Passively Addressable Ultra-Low Volume Sweat Chloride Sensor. Sensors, 2019, 19, 4590.	2.1	19
72	Evolution in Biosensors for Cancers Biomarkers Detection: A Review. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	1.2	19

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73	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.	1.3	18
74	Flexible Molybdenum Electrodes towards Designing Affinity Based Protein Biosensors. <i>Biosensors</i> , 2016, 6, 36.	2.3	18
75	An electrochemical sensor for the detection of antibiotic contaminants in water. <i>Analytical Methods</i> , 2013, 5, 4325.	1.3	17
76	Novel Approach to Track the Lifecycle of Inflammation from Chemokine Expression to Inflammatory Proteins in Sweat Using Electrochemical Biosensor. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	17
77	M.A.T.H: Methanol vapor analytics through handheld sensing platform. <i>Electrochimica Acta</i> , 2021, 368, 137624.	2.6	16
78	On-demand lactate monitoring towards assessing physiological responses in sedentary populations. <i>Analyst, The</i> , 2021, 146, 3482-3492.	1.7	16
79	A Robust Electrochemical CO ₂ Sensor Utilizing Room Temperature Ionic Liquids. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 826-831.	1.1	15
80	The Anatomy of a Nonfaradaic Electrochemical Biosensor. <i>SLAS Technology</i> , 2018, 23, 5-15.	1.0	15
81	AWARE: A Wearable Awareness with Real-time Exposure, for monitoring alcohol consumption impact through ethyl glucuronide detection. <i>Alcohol</i> , 2019, 81, 93-99.	0.8	15
82	Next-Generation Continuous Metabolite Sensing toward Emerging Sensor Needs. <i>ACS Omega</i> , 2021, 6, 6031-6040.	1.6	15
83	Sweating Out the Circadian Rhythm: A Technical Review. <i>ACS Sensors</i> , 2021, 6, 659-672.	4.0	15
84	Thickness Dependency of Thin-Film Samaria-Doped Ceria for Oxygen Sensing. <i>IEEE Sensors Journal</i> , 2011, 11, 217-224.	2.4	14
85	Portable Chronic Alcohol Consumption Monitor in Human Sweat through Square-Wave Voltammetry. <i>SLAS Technology</i> , 2018, 23, 144-153.	1.0	14
86	Characterization of Room-Temperature Ionic Liquids to Study the Electrochemical Activity of Nitro Compounds. <i>Sensors</i> , 2020, 20, 1124.	2.1	14
87	A Highly Sensitive Electrochemical Sensor System to Detect and Distinguish Between Glyphosate and Glufosinate. <i>Journal of the Electrochemical Society</i> , 2021, 168, 057531.	1.3	14
88	Portable nanoporous electrical biosensor for ultrasensitive detection of Troponin-T. <i>Future Science OA</i> , 2015, 1, FSO24.	0.9	13
89	Novel Nanomonitor ultra-sensitive detection of troponin T. <i>Clinica Chimica Acta</i> , 2015, 442, 96-101.	0.5	13
90	Surface modification of ZnO nanostructured electrodes with thiol and phosphonic acid moieties for biosensing applications. <i>Analytical Methods</i> , 2017, 9, 5525-5533.	1.3	13

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91	ZEUS (ZIF-based electrochemical ultrasensitive screening) device for isopentane analytics with focus on lung cancer diagnosis. RSC Advances, 2021, 11, 20519-20528.	1.7	13
92	Portable Pesticide Electrochem-sensor: A Label-Free Detection of Glyphosate in Human Urine. Langmuir, 2022, 38, 1781-1790.	1.6	13
93	Improved Performance of Glucose Bioanodes Using Composites of (7,6) Single-Walled Carbon Nanotubes and a Ferrocene-LPEI Redox Polymer. Langmuir, 2017, 33, 7591-7599.	1.6	12
94	Development and validation of an impedance biosensor for point-of-care detection of vascular cell adhesion molecule-1 toward lupus diagnostics. Future Science OA, 2017, 3, FSO224.	0.9	12
95	A Robust Electrochemical Humidity Sensor for the Detection of Relative Humidity Using Room Temperature Ionic Liquid (RTIL) for Integration in Semiconductor IC's. ECS Journal of Solid State Science and Technology, 2018, 7, Q3043-Q3048.	0.9	12
96	Point-of-use sweat biosensor to track the endocrine-inflammatory relationship for chronic disease monitoring. Future Science OA, 2021, 7, FSO628.	0.9	12
97	Evidence-based point-of-care technology development during the COVID-19 pandemic. BioTechniques, 2021, 70, 58-67.	0.8	12
98	An approach to rapidly assess sepsis through multi-biomarker host response using machine learning algorithm. Scientific Reports, 2021, 11, 16905.	1.6	12
99	Nanotextured Organic Light Emitting Diode Based Chemical Sensor. Journal of Nanoscience and Nanotechnology, 2009, 9, 6299-6306.	0.9	11
100	Design of a high sensitive non-faradaic impedimetric sensor. , 2012, 2012, 3251-4.		11
101	Fully electronic urine dipstick probe for combinatorial detection of inflammatory biomarkers. Future Science OA, 2018, 4, FSO301.	0.9	11
102	Fluorinated Anionic Room Temperature Ionic Liquid-Based CO ₂ Electrochemical Sensing. IEEE Sensors Journal, 2018, 18, 3517-3523.	2.4	11
103	Rapid electrochemical device for single-drop point-of-use screening of parathyroid hormone. Bioelectronics in Medicine, 2019, 2, 13-27.	2.0	11
104	The detection of papaya ringspot virus coat protein using an electrochemical immunosensor. Analytical Methods, 2016, 8, 8534-8541.	1.3	10
105	Non-invasive monitoring of a circadian relevant biomarker from easily accessible body fluids using hybrid aqueous-ionic buffer interfaces on flexible substrates. Analytical Methods, 2019, 11, 1180-1191.	1.3	10
106	Detection of Cardiovascular CRP Protein Biomarker Using a Novel Nanofibrous Substrate. Biosensors, 2020, 10, 72.	2.3	10
107	Demonstration of sweat-based circadian diagnostic capability of SLOCK using electrochemical detection modalities. RSC Advances, 2021, 11, 7750-7765.	1.7	10
108	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. Bioengineering and Translational Medicine, 2021, 6, e10241.	3.9	10

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109	Versatile Duplex Electrochemical Sensor for the Detection of CO ₂ and Relative Humidity Using Room Temperature Ionic Liquid. ECS Transactions, 2018, 85, 751-765.	0.3	9
110	Establish pre-clinical diagnostic efficacy for parathyroid hormone as a point-of-surgery-testing-device (POST). Scientific Reports, 2020, 10, 18804.	1.6	9
111	Tuning SLOCK toward Chronic Disease Diagnostics and Management: Label-free Sweat Interleukin-31 Detection. ACS Omega, 2021, 6, 20422-20432.	1.6	9
112	Label Free, Lateral Flow Prostaglandin E2 Electrochemical Immunosensor for Urinary Tract Infection Diagnosis. Chemosensors, 2021, 9, 271.	1.8	9
113	Interfacial Tuning for Detection of Cortisol in Sweat Using ZnO Thin Films on Flexible Substrates. IEEE Nanotechnology Magazine, 2017, 16, 832-836.	1.1	8
114	Cascaded Chemical Sensing Using a Single Cell as a Sensor. Sensor Letters, 2004, 2, 1-8.	0.4	8
115	E.Co.Tech-electrochemical handheld breathalyzer COVID sensing technology. Scientific Reports, 2022, 12, 4370.	1.6	8
116	STUDY OF NANOPOROUS MEMBRANES WITH APPLICATIONS IN THE ENHANCED DETECTION OF CADIOVASCULAR BIOMARKER PROTEINS. Nano LIFE, 2010, 01, 175-183.	0.6	7
117	Electrical nanowell diagnostics sensors for rapid and ultrasensitive detection of prostate-specific antigen. Nanomedicine, 2015, 10, 2527-2536.	1.7	7
118	2D dielectrophoretic signature of Coscinodiscus wailesii algae in non-uniform electric fields. Algal Research, 2017, 27, 109-114.	2.4	7
119	Randles Circuit Analysis Toward Investigating Interfacial Effects on Microchannel Electrodes. , 2018, 2, 1-4.		7
120	Sweat Basedâ€multiplexed Detection of NPYâ€Cortisol for Disease Diagnostics and Stress Management. Electroanalysis, 2022, 34, 375-386.	1.5	7
121	Labelâ€Free Protein Glycosylation Analysis Using NanoMonitorâ€An Ultrasensitive Electrochemical Biosensor. Current Protocols, 2021, 1, e150.	1.3	7
122	ZeNose/GO hybrid composite for detection of clinically relevant VOCs in lower respiratory tract (Case study using Carene). Materials Letters, 2022, 307, 130975.	1.3	7
123	Label-Free, Novel Electrofluidic Capacitor Biosensor for Prostaglandin E2 Detection toward Early and Rapid Urinary Tract Infection Diagnosis. ACS Sensors, 2022, 7, 186-198.	4.0	7
124	Management options for solitary thyroid nodules in an endemic goitrous area. Postgraduate Medical Journal, 1997, 73, 560-564.	0.9	6
125	The heritable effects of nanotoxicity. Nanomedicine, 2014, 9, 2829-2841.	1.7	6
126	Portable impedance measurement device for sweat based glucose detection. , 2017, , .		6

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127	Micro-photonic cylindrical waveguide based protein biosensor. <i>Nanotechnology</i> , 2006, 17, 4384-4390.	1.3	5
128	Use of dicationic ionic liquids as a novel liquid platform for dielectrophoretic cell manipulation. <i>RSC Advances</i> , 2016, 6, 22594-22603.	1.7	5
129	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.	1.2	5
130	Simultaneous detection of sepsis host response biomarkers in whole blood using electrochemical biosensor. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	3.9	5
131	Association of different prediction methods for determination of the efficiency and selectivity on neuron-based sensors. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1045-1058.	5.3	4
132	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.	1.3	4
133	Targeted On-Demand Screening of Pesticide Panel in Soil Runoff. <i>Frontiers in Chemistry</i> , 2021, 9, 782252.	1.8	4
134	An observational study for detection and quantification of interferon- β in sweat toward inflammation monitoring. <i>Biosensors and Bioelectronics: X</i> , 2022, 10, 100122.	0.9	4
135	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.	0.9	4
136	AuNP@ZeNose (ZIF-based electrochemical nose) for detection of flu biomarker in breath. <i>Mikrochimica Acta</i> , 2022, 189, .	2.5	4
137	MULTIWALLED CARBON NANOTUBE-BASED AROMATIC HYDROCARBON SENSOR USING ELECTRONIC DIPOLE SPECTROSCOPY. <i>Chemical Engineering Communications</i> , 2007, 195, 115-128.	1.5	3
138	Patterned Polymer Nanofibers Based Biosensors. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1358, 30701.	0.1	3
139	Interfacial tuning for detection of cortisol in sweat using ZnO thin films for wearable biosensing. , 2016, , .		3
140	Acquiring and Classifying Signals from Nanopores and Ion-Channels. <i>Lecture Notes in Computer Science</i> , 2009, , 265-274.	1.0	3
141	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.	5.3	3
142	Electrochemically mediated multi-modal detection strategy-driven sensor platform to detect and quantify pesticides. <i>Electrochemical Science Advances</i> , 2022, 2, .	1.2	3
143	Multiplexed host immune response biosensor for rapid sepsis stratification and endotyping at point-of-care. <i>Biosensors and Bioelectronics: X</i> , 2022, 10, 100144.	0.9	3
144	A novel single step method to rapidly screen for metal contaminants in beverages, a case study with aluminum. <i>Environmental Technology and Innovation</i> , 2022, 28, 102691.	3.0	3

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145	DENSE: DiElectric Novel Soil Evaluation System to Electrochemically Profile Soil Matrices. Journal of the Electrochemical Society, 0, , .	1.3	3
146	Nanoporous Noninvasive Cellular Electrical Activity-Based Analysis Devices. Clinics in Laboratory Medicine, 2007, 27, 75-91.	0.7	2
147	Towards Crossbar Nanoarray Structure via Microcontact Printing. Journal of Nanoscience and Nanotechnology, 2008, 8, 1951-1958.	0.9	2
148	Electromigration of Charged Polystyrene Beads Through Silicon Nanopores Filled With Low Ionic Strength Solutions. , 2009, , .		2
149	Transform domain features for ion-channel signal classification using support vector machines. , 2009, , .		2
150	Enhanced electrochemical detection of cardiovascular biomarker proteins using biogenic nanoporous silica diatoms. , 2011, , .		2
151	EFFECT OF SIZE MATCHING FOR ULTRASENSITIVE DETECTION OF PROTEIN BIOMARKERS. Nano LIFE, 2013, 03, 1343008.	0.6	2
152	Novel technique for sleep apnea monitoring. , 2015, , .		2
153	Electronic bracelet for monitoring of alcohol lifestyle. , 2016, , .		2
154	Combinatorial Sensors: An Integrated Approach to Lifestyle Management and Environmental Surveillance. , 2023, , 505-525.		2
155	Exploring the Role of Room Temperature Ionic Liquid as a Transducer in Electrochemical Soil Probing: A case study with [BMIM] [BF4]. Journal of the Electrochemical Society, 2021, 168, 037505.	1.3	2
156	Silicon Based Pore Systems for Emerging Biosensor Applications. , 2009, , .		2
157	HELP (Hydrogen peroxide electrochemical profiling): A novel biosensor for measuring hydrogen peroxide levels expressed in breath for monitoring airway inflammation using electrochemical methods. Biosensors and Bioelectronics: X, 2022, 10, 100139.	0.9	2
158	Electrochemical Aptasensing for Lifestyle and Chronic Disease Management. Current Medicinal Chemistry, 2023, 30, 895-909.	1.2	2
159	Electric Field-Assisted Positioning of Neurons on Pt Microelectrode Arrays. Materials Research Society Symposia Proceedings, 2003, 773, 461.	0.1	1
160	Nanoporous Noninvasive Cellular Electrical Activity-Based Analysis Devices. Journal of the Association for Laboratory Automation, 2006, 11, 65-74.	2.8	1
161	Multiwalled Carbon Nanotube Crossbar Junction Formation via Microcontact Printing. Journal of the Association for Laboratory Automation, 2008, 13, 49-53.	2.8	1
162	Performance Evaluation of an Oxygen Sensor as a Function of the Samaria Doped Ceria Film Thickness. Materials Research Society Symposia Proceedings, 2009, 1209, 1.	0.1	1

#	ARTICLE	IF	CITATIONS
163	Signal processing for biologically inspired sensors. , 2010, , .		1
164	A nanomonitor compared to ELISA for C-reactive protein detection in patient blood. , 2011, , .		1
165	Designing better nano biosensors: Role of pore confinement of biomolecules. , 2011, , .		1
166	OLED-based biochemical sensors. , 2013, , 548-571.		1
167	Cellular level classification of breast cancer through proteomic markers using nanochannel array sensors. Nanomedicine, 2014, 9, 1956-1970.	1.7	1
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169	Nanochannel electrical immunosensor for cancer stem cell proteomic biomarker based classification of breast cancer. , 2014, , .		1
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