

Diming Zhang

List of Publications by Year in descending order

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37
papers

1,607
citations

394421

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345221

36
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times ranked

2499
citing authors

#	ARTICLE	IF	CITATIONS
1	Smartphone-Based Electrochemical System for Biosensors and Biodetection. <i>Methods in Molecular Biology</i> , 2022, 2393, 493-514.	0.9	6
2	Electrochemistry Coupling Localized Surface Plasmon Resonance for Biochemical Detection. <i>Methods in Molecular Biology</i> , 2022, 2393, 15-35.	0.9	2
3	Neuroimaging with light field microscopy: a mini review of imaging systems. <i>European Physical Journal: Special Topics</i> , 2022, 231, 749-761.	2.6	11
4	Multi-labeled neural network model for automatically processing cardiomyocyte mechanical beating signals in drug assessment. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114261.	10.1	4
5	A biosensing system using a multiparameter nonlinear dynamic analysis of cardiomyocyte beating for drug-induced arrhythmia recognition. <i>Microsystems and Nanoengineering</i> , 2022, 8, 49.	7.0	1
6	An Improved Automated High-Throughput Efficient Microplate Reader for Rapid Colorimetric Biosensing. <i>Biosensors</i> , 2022, 12, 284.	4.7	2
7	A biosensing system employing nanowell microelectrode arrays to record the intracellular potential of a single cardiomyocyte. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	7.0	7
8	Rational engineering of ratiometric calcium sensors with bright green and red fluorescent proteins. <i>Communications Biology</i> , 2021, 4, 924.	4.4	12
9	Enhanced genetically encoded voltage indicators advance their applications in neuroscience. <i>Current Opinion in Biomedical Engineering</i> , 2019, 12, 111-117.	3.4	11
10	Spectroscopic detection of thrombin with peptides self-assembled on gold nanoparticles hybridized graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 443-449.	7.8	18
11	Biomimetic sensor for sweet taste detection based on graphene composite materials. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 909-917.	7.8	7
12	Nanoplasmonic Biosensor Using Localized Surface Plasmon Resonance Spectroscopy for Biochemical Detection. <i>Methods in Molecular Biology</i> , 2017, 1571, 89-107.	0.9	5
13	One step electrochemical deposition and reduction of graphene oxide on screen printed electrodes for impedance detection of glucose. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 290-298.	7.8	41
14	Smartphone-based sensing system using ZnO and graphene modified electrodes for VOCs detection. <i>Biosensors and Bioelectronics</i> , 2017, 93, 94-101.	10.1	95
15	Electrophoresis-enhanced localized surface plasmon resonance sensing based on nanocup array for thrombin detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 219-225.	7.8	24
16	Zinc Nanoparticles-equipped Bioelectronic Nose Using a Microelectrode Array for Odorant Detection. <i>Analytical Sciences</i> , 2016, 32, 387-393.	1.6	15
17	Peptide Functionalized Nanoplasmonic Sensor for Explosive Detection. <i>Nano-Micro Letters</i> , 2016, 8, 36-43.	27.0	22
18	Combining localized surface plasmon resonance with anodic stripping voltammetry for heavy metal ion detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 349-356.	7.8	51

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19	Impedance spectroscopy analysis of human odorant binding proteins immobilized on nanopore arrays for biochemical detection. <i>Biosensors and Bioelectronics</i> , 2016, 79, 251-257.	10.1	30
20	Label-free amino acid detection based on nanocomposites of graphene oxide hybridized with gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016, 77, 963-970.	10.1	37
21	Protein detecting with smartphone-controlled electrochemical impedance spectroscopy for point-of-care applications. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 994-1002.	7.8	109
22	Biomarkers of liver fibrosis detecting with electrochemical immunosensor on clinical serum. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 127-132.	7.8	17
23	Biosensors and bioelectronics on smartphone for portable biochemical detection. <i>Biosensors and Bioelectronics</i> , 2016, 75, 273-284.	10.1	514
24	Graphene oxide-based optical biosensor functionalized with peptides for explosive detection. <i>Biosensors and Bioelectronics</i> , 2015, 68, 494-499.	10.1	54
25	Smartphone-based portable biosensing system using impedance measurement with printed electrodes for 2,4,6-trinitrotoluene (TNT) detection. <i>Biosensors and Bioelectronics</i> , 2015, 70, 81-88.	10.1	120
26	Nanoplasmonic monitoring of odorants binding to olfactory proteins from honeybee as biosensor for chemical detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 341-349.	7.8	21
27	Gustatory Epithelium-Based Taste Sensors. , 2015, , 225-240.		0
28	Olfactory biosensor for insect semiochemicals analysis by impedance sensing of odorant-binding proteins on interdigitated electrodes. <i>Biosensors and Bioelectronics</i> , 2015, 67, 662-669.	10.1	71
29	Nanoplasmonic biosensor: Coupling electrochemistry to localized surface plasmon resonance spectroscopy on nanocup arrays. <i>Biosensors and Bioelectronics</i> , 2015, 67, 237-242.	10.1	50
30	Biosensor analysis of natural and artificial sweeteners in intact taste epithelium. <i>Biosensors and Bioelectronics</i> , 2014, 54, 385-392.	10.1	29
31	Olfactory biosensor using odorant-binding proteins from honeybee: Ligands of floral odors and pheromones detection by electrochemical impedance. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 420-427.	7.8	63
32	An integrated label-free cell-based biosensor for simultaneously monitoring of cellular physiology multiparameter in vitro. <i>Biomedical Microdevices</i> , 2013, 15, 473-480.	2.8	12
33	Biosensor recording of extracellular potentials in the taste epithelium for bitter detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 497-504.	7.8	37
34	Extracellular potentials recording in intact taste epithelium by microelectrode array for a taste sensor. <i>Biosensors and Bioelectronics</i> , 2013, 43, 186-192.	10.1	36
35	Umami evaluation in taste epithelium on microelectrode array by extracellular electrophysiological recording. <i>Biochemical and Biophysical Research Communications</i> , 2013, 438, 334-339.	2.1	14
36	Bioelectronic tongue of taste buds on microelectrode array for salt sensing. <i>Biosensors and Bioelectronics</i> , 2013, 40, 115-120.	10.1	42

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37	Olfactory epithelium biosensor: odor discrimination of receptor neurons from a bio-hybrid sensing system. <i>Biomedical Microdevices</i> , 2012, 14, 1055-1061.	2.8	17