Diming Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

37 papers	1,607 citations	394421 19 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	2499 citing authors

#	Article	IF	Citations
1	Biosensors and bioelectronics on smartphone for portable biochemical detection. Biosensors and Bioelectronics, 2016, 75, 273-284.	10.1	514
2	Smartphone-based portable biosensing system using impedance measurement with printed electrodes for 2,4,6-trinitrotoluene (TNT) detection. Biosensors and Bioelectronics, 2015, 70, 81-88.	10.1	120
3	Protein detecting with smartphone-controlled electrochemical impedance spectroscopy for point-of-care applications. Sensors and Actuators B: Chemical, 2016, 222, 994-1002.	7.8	109
4	Smartphone-based sensing system using ZnO and graphene modified electrodes for VOCs detection. Biosensors and Bioelectronics, 2017, 93, 94-101.	10.1	95
5	Olfactory biosensor for insect semiochemicals analysis by impedance sensing of odorant-binding proteins on interdigitated electrodes. Biosensors and Bioelectronics, 2015, 67, 662-669.	10.1	71
6	Olfactory biosensor using odorant-binding proteins from honeybee: Ligands of floral odors and pheromones detection by electrochemical impedance. Sensors and Actuators B: Chemical, 2014, 193, 420-427.	7.8	63
7	Graphene oxide-based optical biosensor functionalized with peptides for explosive detection. Biosensors and Bioelectronics, 2015, 68, 494-499.	10.1	54
8	Combining localized surface plasmon resonance with anodic stripping voltammetry for heavy metal ion detection. Sensors and Actuators B: Chemical, 2016, 231, 349-356.	7.8	51
9	Nanoplasmonic biosensor: Coupling electrochemistry to localized surface plasmon resonance spectroscopy on nanocup arrays. Biosensors and Bioelectronics, 2015, 67, 237-242.	10.1	50
10	Bioelectronic tongue of taste buds on microelectrode array for salt sensing. Biosensors and Bioelectronics, 2013, 40, 115-120.	10.1	42
11	One step electrochemical deposition and reduction of graphene oxide on screen printed electrodes for impedance detection of glucose. Sensors and Actuators B: Chemical, 2017, 244, 290-298.	7.8	41
12	Biosensor recording of extracellular potentials in the taste epithelium for bitter detection. Sensors and Actuators B: Chemical, 2013, 176, 497-504.	7.8	37
13	Label-free amino acid detection based on nanocomposites of graphene oxide hybridized with gold nanoparticles. Biosensors and Bioelectronics, 2016, 77, 963-970.	10.1	37
14	Extracellular potentials recording in intact taste epithelium by microelectrode array for a taste sensor. Biosensors and Bioelectronics, 2013, 43, 186-192.	10.1	36
15	Impedance spectroscopy analysis of human odorant binding proteins immobilized on nanopore arrays for biochemical detection. Biosensors and Bioelectronics, 2016, 79, 251-257.	10.1	30
16	Biosensor analysis of natural and artificial sweeteners in intact taste epithelium. Biosensors and Bioelectronics, 2014, 54, 385-392.	10.1	29
17	Electrophoresis-enhanced localized surface plasmon resonance sensing based on nanocup array for thrombin detection. Sensors and Actuators B: Chemical, 2016, 232, 219-225.	7.8	24
18	Peptide Functionalized Nanoplasmonic Sensor for Explosive Detection. Nano-Micro Letters, 2016, 8, 36-43.	27.0	22

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19	Nanoplasmonic monitoring of odorants binding to olfactory proteins from honeybee as biosensor for chemical detection. Sensors and Actuators B: Chemical, 2015, 221, 341-349.	7.8	21
20	Spectroscopic detection of thrombin with peptides self-assembled on gold nanoparticles hybridized graphene oxide. Sensors and Actuators B: Chemical, 2017, 242, 443-449.	7.8	18
21	Olfactory epithelium biosensor: odor discrimination of receptor neurons from a bio-hybrid sensing system. Biomedical Microdevices, 2012, 14, 1055-1061.	2.8	17
22	Biomarkers of liver fibrosis detecting with electrochemical immunosensor on clinical serum. Sensors and Actuators B: Chemical, 2016, 222, 127-132.	7.8	17
23	Zinc Nanoparticles-equipped Bioelectronic Nose Using a Microelectrode Array for Odorant Detection. Analytical Sciences, 2016, 32, 387-393.	1.6	15
24	Umami evaluation in taste epithelium on microelectrode array by extracellular electrophysiological recording. Biochemical and Biophysical Research Communications, 2013, 438, 334-339.	2.1	14
25	An integrated label-free cell-based biosensor for simultaneously monitoring of cellular physiology multiparameter in vitro. Biomedical Microdevices, 2013, 15, 473-480.	2.8	12
26	Rational engineering of ratiometric calcium sensors with bright green and red fluorescent proteins. Communications Biology, 2021, 4, 924.	4.4	12
27	Enhanced genetically encoded voltage indicators advance their applications in neuroscience. Current Opinion in Biomedical Engineering, 2019, 12, 111-117.	3.4	11
28	Neuroimaging with light field microscopy: a mini review of imaging systems. European Physical Journal: Special Topics, 2022, 231, 749-761.	2.6	11
29	Biomimetic sensor for sweet taste detection based on graphene composite materials. Sensors and Actuators B: Chemical, 2017, 251, 909-917.	7.8	7
30	A biosensing system employing nanowell microelectrode arrays to record the intracellular potential of a single cardiomyocyte. Microsystems and Nanoengineering, 2022, 8, .	7.0	7
31	Smartphone-Based Electrochemical System for Biosensors and Biodetection. Methods in Molecular Biology, 2022, 2393, 493-514.	0.9	6
32	Nanoplasmonic Biosensor Using Localized Surface Plasmon Resonance Spectroscopy for Biochemical Detection. Methods in Molecular Biology, 2017, 1571, 89-107.	0.9	5
33	Multi-labeled neural network model for automatically processing cardiomyocyte mechanical beating signals in drug assessment. Biosensors and Bioelectronics, 2022, 209, 114261.	10.1	4
34	Electrochemistry Coupling Localized Surface Plasmon Resonance for Biochemical Detection. Methods in Molecular Biology, 2022, 2393, 15-35.	0.9	2
35	An Improved Automated High-Throughput Efficient Microplate Reader for Rapid Colorimetric Biosensing. Biosensors, 2022, 12, 284.	4.7	2
36	A biosensing system using a multiparameter nonlinear dynamic analysis of cardiomyocyte beating for drug-induced arrhythmia recognition. Microsystems and Nanoengineering, 2022, 8, 49.	7.0	1

#	Article	IF	Citations
37	Gustatoty Epithelium-Based Taste Sensors. , 2015, , 225-240.		0