

Wei Chen

List of Publications by Year in Descending Order

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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.

32
papers

1,569
citations

16
h-index

35
g-index

35
ext. papers

1,753
ext. citations

6.7
avg, IF

4.68
L-index

#	Paper	IF	Citations
32	Light-controlled spiky micromotors for efficient capture and transport of targets. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131523	8.5	0
31	Self-assembled β -galactosidase on T4 phage capsid through affinity binding with enhanced activity and stability for rapid bacteria detection. <i>Sensors and Actuators B: Chemical</i> , 2022 , 131569	8.5	0
30	Light-controlled microbots gathering as a sterilization platform for highly efficient capturing, concentrating and killing targeted bacteria. <i>Chemical Engineering Journal</i> , 2022 , 435, 135067	14.7	0
29	Extension of duplex specific nuclease sensing application with RNA aptamer.. <i>Talanta</i> , 2022 , 242, 123314	6.2	0
28	Advancing interfacial properties of carbon cloth via anodic-induced self-assembly of MOFs film integrated with MnO : A sustainable electrocatalyst sensing acetylcholine.. <i>Journal of Hazardous Materials</i> , 2021 , 426, 128133	12.8	3
27	Detecting and inactivating severe acute respiratory syndrome coronavirus-2 under the auspices of electrochemistry. <i>Current Research in Chemical Biology</i> , 2021 , 1, 100001		8
26	Recent advances in ionic current rectification based nanopore sensing: a mini-review. <i>Sensors and Actuators Reports</i> , 2021 , 3, 100042	4.7	3
25	Ion current rectification in combination with ion current saturation. <i>Analytica Chimica Acta</i> , 2020 , 1117, 35-40	6.6	2
24	Ultrasensitive and regenerable nanopore sensing based on target induced aptamer dissociation. <i>Biosensors and Bioelectronics</i> , 2020 , 152, 112011	11.8	5
23	Highly efficient MnO_2 /reduced graphene oxide hydrogel motors for organic pollutants removal. <i>Journal of Materials Science</i> , 2020 , 55, 1984-1995	4.3	16
22	Ion Current Rectification Behavior of Conical Nanopores Filled with Spatially Distributed Fixed Charges. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26299-26308	3.8	12
21	Detection of alkaline phosphatase activity with a functionalized nanopipette. <i>Electrochemistry Communications</i> , 2019 , 99, 71-74	5.1	18
20	High-Security Multifunctional Nano-Bismuth-Sphere-Cluster Prepared from Oral Gastric Drug for CT/PA Dual-Mode Imaging and Chemo-Photothermal Combined Therapy In Vivo. <i>Advanced Functional Materials</i> , 2019 , 29, 1900017	15.6	23
19	Ion Current Rectification in High-Salt Environment from Mesoporous TiO Microplug Grown at the Tip of a Micropipette Induced by Space-Confined Evaporation. <i>Analytical Chemistry</i> , 2019 , 91, 15377-15381	7.8	6
18	Ion-current-rectification-based customizable pH response in glass nanopipettes via silanization. <i>Electrochemistry Communications</i> , 2018 , 93, 95-99	5.1	15
17	pH-modulated ion-current rectification in a cysteine-functionalized glass nanopipette. <i>Electrochemistry Communications</i> , 2018 , 97, 6-10	5.1	14
16	Synthesis and Characterization of the Conducting Polymer Micro-Helix Based on the Template. <i>Polymers</i> , 2018 , 10,	4.5	7

15	Graphene oxide coating core-shell silver sulfide@mesoporous silica for active targeted dual-mode imaging and chemo-photothermal synergistic therapy against tumors. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 4808-4820	7.3	21
14	Graphene nanopores toward DNA sequencing: a review of experimental aspects. <i>Science China Chemistry</i> , 2017 , 60, 721-729	7.9	30
13	A field-compatible technique using an electrochemical sensing microbundle for real-time and simultaneous in vivo measurement of hydrogen peroxide, nitric oxide, and pH under drought stress. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 743-748	8.5	10
12	Iridium oxide based coaxial pH ultramicroelectrode. <i>Electrochemistry Communications</i> , 2014 , 40, 35-37	5.1	20
11	In vivo monitoring of oxidative burst on aloe under salinity stress using hemoglobin and single-walled carbon nanotubes modified carbon fiber ultramicroelectrode. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 318-24	11.8	25
10	Recent advances in electrochemical sensing for hydrogen peroxide: a review. <i>Analyst, The</i> , 2012 , 137, 49-58	5	720
9	In Vivo Electrochemical Biosensors for Reactive Oxygen Species Detection: A Mini-Review. <i>Analytical Letters</i> , 2012 , 45, 156-167	2.2	23
8	Electrocatalytic Four-Electron Reduction of Dioxygen by Electrochemically Deposited Poly[[meso-tetrakis(2-thienyl)porphyrinato]cobalt(II)]. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8633-8638	2.8	46
7	Enhanced electrochemical oxygen reduction-based glucose sensing using glucose oxidase on nanodendritic poly[meso-tetrakis(2-thienyl)porphyrinato]cobalt(II)-SWNTs composite electrodes. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 504-10	11.8	42
6	Poly[meso-tetrakis(2-thienyl)porphyrin] for the sensitive electrochemical detection of explosives. <i>Sensors and Actuators B: Chemical</i> , 2010 , 147, 191-197	8.5	39
5	Regenerable Leptin Immunosensor Based on Protein G Immobilized Au-Pyrrole Propylic Acid-Polypyrrole Nanocomposite. <i>Electroanalysis</i> , 2010 , 22, 1078-1083	3	30
4	Sensitive human interleukin 5 impedimetric sensor based on polypyrrole-pyrrolepropylic acid-gold nanocomposite. <i>Analytical Chemistry</i> , 2008 , 80, 8485-92	7.8	58
3	In situ AFM study of electrochemical synthesis of polypyrrole/Au nanocomposite. <i>Electrochemistry Communications</i> , 2008 , 10, 1340-1343	5.1	33
2	How to prevent the loss of surface functionality derived from aminosilanes. <i>Langmuir</i> , 2008 , 24, 12405-94		258
1	Electrosynthesis and characterization of polypyrrole/Au nanocomposite. <i>Electrochimica Acta</i> , 2007 , 52, 2845-2849	6.7	80