

Wei Chen

List of Publications by Year in descending order

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35
papers

1,913
citations

471061

17
h-index

360668

35
g-index

35
all docs

35
docs citations

35
times ranked

3561
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in electrochemical sensing for hydrogen peroxide: a review. <i>Analyst</i> , The, 2012, 137, 49-58.	1.7	826
2	How To Prevent the Loss of Surface Functionality Derived from Aminosilanes. <i>Langmuir</i> , 2008, 24, 12405-12409.	1.6	307
3	Electrosynthesis and characterization of polypyrrole/Au nanocomposite. <i>Electrochimica Acta</i> , 2007, 52, 2845-2849.	2.6	88
4	Sensitive Human Interleukin 5 Impedimetric Sensor Based on Polypyrrole- <i>l</i> -Pyrrolepropyic Acid-Gold Nanocomposite. <i>Analytical Chemistry</i> , 2008, 80, 8485-8492.	3.2	60
5	Electrocatalytic Four-Electron Reduction of Dioxygen by Electrochemically Deposited Poly{[<i>meso</i> -tetrakis(2-thienyl)porphyrinato]cobalt(II)}. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8633-8638.	1.5	53
6	Enhanced electrochemical oxygen reduction-based glucose sensing using glucose oxidase on nanodendritic poly[<i>meso</i> -tetrakis(2-thienyl)porphyrinato]cobalt(II)-SWNTs composite electrodes. <i>Biosensors and Bioelectronics</i> , 2010, 26, 504-510.	5.3	46
7	Poly[<i>meso</i> -tetrakis(2-thienyl)porphyrin] for the sensitive electrochemical detection of explosives. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 191-197.	4.0	44
8	Regenerable Leptin Immunosensor Based on Protein G Immobilized Au- <i>l</i> -Pyrrole Propyic Acid-Polypyrrole Nanocomposite. <i>Electroanalysis</i> , 2010, 22, 1078-1083.	1.5	37
9	In situ AFM study of electrochemical synthesis of polypyrrole/Au nanocomposite. <i>Electrochemistry Communications</i> , 2008, 10, 1340-1343.	2.3	36
10	Graphene nanopores toward DNA sequencing: a review of experimental aspects. <i>Science China Chemistry</i> , 2017, 60, 721-729.	4.2	36
11	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.	7.8	36
12	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, 318-324.	5.3	31
13	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.	2.9	29
14	Detection of alkaline phosphatase activity with a functionalized nanopipette. <i>Electrochemistry Communications</i> , 2019, 99, 71-74.	2.3	27
15	In Vivo Electrochemical Biosensors for Reactive Oxygen Species Detection: A Mini-Review. <i>Analytical Letters</i> , 2012, 45, 156-167.	1.0	23
16	Iridium oxide based coaxial pH ultramicroelectrode. <i>Electrochemistry Communications</i> , 2014, 40, 35-37.	2.3	23
17	pH-modulated ion-current rectification in a cysteine-functionalized glass nanopipette. <i>Electrochemistry Communications</i> , 2018, 97, 6-10.	2.3	19
18	Highly efficient MnO ₂ /reduced graphene oxide hydrogel motors for organic pollutants removal. <i>Journal of Materials Science</i> , 2020, 55, 1984-1995.	1.7	19

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19	Advancing interfacial properties of carbon cloth via anodic-induced self-assembly of MOFs film integrated with β -MnO ₂ : A sustainable electrocatalyst sensing acetylcholine. <i>Journal of Hazardous Materials</i> , 2022, 426, 128133.	6.5	19
20	Ion-current-rectification-based customizable pH response in glass nanopipettes via silanization. <i>Electrochemistry Communications</i> , 2018, 93, 95-99.	2.3	18
21	Detecting and inactivating severe acute respiratory syndrome coronavirus-2 under the auspices of electrochemistry. <i>Current Research in Chemical Biology</i> , 2021, 1, 100001.	1.4	18
22	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.	4.0	17
23	Recent advances in ionic current rectification based nanopore sensing: a mini-review. <i>Sensors and Actuators Reports</i> , 2021, 3, 100042.	2.3	16
24	Ion Current Rectification Behavior of Conical Nanopores Filled with Spatially Distributed Fixed Charges. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26299-26308.	1.5	15
25	Ion Current Rectification in High-Salt Environment from Mesoporous TiO ₂ Microplug <i>in Situ</i> Grown at the Tip of a Micropipette Induced by Space-Confined Evaporation. <i>Analytical Chemistry</i> , 2019, 91, 15377-15381.	3.2	11
26	Synthesis and Characterization of the Conducting Polymer Micro-Helix Based on the Spirulina Template. <i>Polymers</i> , 2018, 10, 882.	2.0	9
27	Ultrasensitive and regenerable nanopore sensing based on target induced aptamer dissociation. <i>Biosensors and Bioelectronics</i> , 2020, 152, 112011.	5.3	8
28	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.	6.6	8
29	Ion current rectification in combination with ion current saturation. <i>Analytica Chimica Acta</i> , 2020, 1117, 35-40.	2.6	7
30	Light-controlled spiky micromotors for efficient capture and transport of targets. <i>Sensors and Actuators B: Chemical</i> , 2022, 358, 131523.	4.0	7
31	Extension of duplex specific nuclease sensing application with RNA aptamer. <i>Talanta</i> , 2022, 242, 123314.	2.9	7
32	Controlled release of metal phenolic network protected phage for treating bacterial infection. <i>Nanotechnology</i> , 2022, 33, 165102.	1.3	5
33	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, 359, 131569.	4.0	4
34	A simple fluorescent strategy for liver capillary labeling with carbon quantum dot-lectin nanoprobe. <i>Analyst</i> , 2022, 147, 1952-1960.	1.7	3
35	In Vivo Monitoring of Nitric Oxide in Tobacco Leaves by a Poly Ni(II)-Tetrasulfonated Phthalocyanine/Poly(o-phenylenediamine)/Nafion Modified Graphite Electrode. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 694-698.	0.4	1