Jian-Rong Zhang

List of Publications by Citations

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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.

89
papers
4,357
citations
34
p-index
g-index

5,030
ext. papers
ext. citations
10.6
avg, IF
L-index

#	Paper	IF	Citations
89	A Facile Microwave Avenue to Electrochemiluminescent Two-Color Graphene Quantum Dots. <i>Advanced Functional Materials</i> , 2012 , 22, 2971-2979	15.6	670
88	Fabrication of Graphene Quantum Dots Composites for Sensitive Electrogenerated Chemiluminescence Immunosensing. <i>Advanced Functional Materials</i> , 2011 , 21, 869-878	15.6	287
87	Nanostructured material-based biofuel cells: recent advances and future prospects. <i>Chemical Society Reviews</i> , 2017 , 46, 1545-1564	58.5	199
86	One-pot synthesis of aptamer-functionalized silver nanoclusters for cell-type-specific imaging. <i>Analytical Chemistry</i> , 2012 , 84, 4140-6	7.8	174
85	Enhanced Photoelectrochemical Immunosensing Platform Based on CdSeTe@CdS:Mn Core-Shell Quantum Dots-Sensitized TiO2 Amplified by CuS Nanocrystals Conjugated Signal Antibodies. Analytical Chemistry, 2016, 88, 3392-9	7.8	156
84	Living and Conducting: Coating Individual Bacterial Cells with In Situ Formed Polypyrrole. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10516-10520	16.4	146
83	Fabrication of gold nanoparticles on bilayer graphene for glucose electrochemical biosensing. Journal of Materials Chemistry, 2011 , 21, 7604		132
82	Sensitive electrochemical detection of telomerase activity using spherical nucleic acids gold nanoparticles triggered mimic-hybridization chain reaction enzyme-free dual signal amplification. <i>Analytical Chemistry</i> , 2015 , 87, 3019-26	7.8	131
81	Near-Infrared Photothermally Activated DNAzyme-Gold Nanoshells for Imaging Metal Ions in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6798-6802	16.4	125
80	Polyaniline networks grown on graphene nanoribbons-coated carbon paper with a synergistic effect for high-performance microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12587	13	121
79	A new signal amplification strategy of photoelectrochemical immunoassay for highly sensitive interleukin-6 detection based on TiO2/CdS/CdSe dual co-sensitized structure. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 45-53	11.8	107
78	"Signal-on" photoelectrochemical biosensor for sensitive detection of human T-Cell lymphotropic virus type II DNA: dual signal amplification strategy integrating enzymatic amplification with terminal deoxynucleotidyl transferase-mediated extension. <i>Analytical Chemistry</i> , 2015 , 87, 4949-56	7.8	101
77	Single gold@silver nanoprobes for real-time tracing the entire autophagy process at single-cell level. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1903-8	16.4	95
76	Cathode Photoelectrochemical Immunosensing Platform Integrating Photocathode with Photoanode. <i>Analytical Chemistry</i> , 2016 , 88, 10352-10356	7.8	86
75	Toward the early evaluation of therapeutic effects: an electrochemical platform for ultrasensitive detection of apoptotic cells. <i>Analytical Chemistry</i> , 2011 , 83, 7902-9	7.8	74
74	Bacteria-Affinity 3D Macroporous Graphene/MWCNTs/Fe3O4 Foams for High-Performance Microbial Fuel Cells. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 16170-7	9.5	72
73	Ultrasensitive photoelectrochemical immunoassay for CA19-9 detection based on CdSe@ZnS quantum dots sensitized TiO2NWs/Au hybrid structure amplified by quenching effect of Ab2@V(2+) conjugates. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 339-46	11.8	68

(2019-2018)

72	Dynamically imaging collision electrochemistry of single electrochemiluminescence nano-emitters. <i>Chemical Science</i> , 2018 , 9, 6167-6175	9.4	61
71	A Graphene/Poly(3,4-ethylenedioxythiophene) Hybrid as an Anode for High-Performance Microbial Fuel Cells. <i>ChemPlusChem</i> , 2013 , 78, 823-829	2.8	59
70	Design of an enzymatic biofuel cell with large power output. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11511-11516	13	51
69	Microwave-Assisted In Situ Synthesis of Graphene/PEDOT Hybrid and Its Application in Supercapacitors. <i>ChemPlusChem</i> , 2013 , 78, 227-234	2.8	50
68	Inkjet-printed porous polyaniline gel as an efficient anode for microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14555-14559	13	49
67	An Improved Strategy for High-Quality Cesium Bismuth Bromine Perovskite Quantum Dots with Remarkable Electrochemiluminescence Activities. <i>Analytical Chemistry</i> , 2019 , 91, 8607-8614	7.8	45
66	A highly sensitive fluorescence assay for 2,4,6-trinitrotoluene using amine-capped silicon quantum dots as a probe. <i>Analytical Methods</i> , 2015 , 7, 1732-1737	3.2	45
65	Evaluation of intracellular telomerase activity through cascade DNA logic gates. <i>Chemical Science</i> , 2017 , 8, 174-180	9.4	45
64	Nitrogen-doped hollow carbon nanospheres for high-energy-density biofuel cells and self-powered sensing of microRNA-21 and microRNA-141. <i>Nano Energy</i> , 2018 , 44, 95-102	17.1	44
63	Ultrasensitive self-powered cytosensor. <i>Nano Energy</i> , 2016 , 19, 541-549	17.1	43
63	Ultrasensitive self-powered cytosensor. <i>Nano Energy</i> , 2016 , 19, 541-549 Bioapplications of DNA nanotechnology at the solid-liquid interface. <i>Chemical Society Reviews</i> , 2019 , 48, 4892-4920	17.1 58.5	43
	Bioapplications of DNA nanotechnology at the solid-liquid interface. <i>Chemical Society Reviews</i> , 2019		
62	Bioapplications of DNA nanotechnology at the solid-liquid interface. <i>Chemical Society Reviews</i> , 2019 , 48, 4892-4920 Aptamer-functionalized silver nanoclusters-mediated cell type-specific siRNA delivery and tracking.	58.5	42
62	Bioapplications of DNA nanotechnology at the solid-liquid interface. <i>Chemical Society Reviews</i> , 2019 , 48, 4892-4920 Aptamer-functionalized silver nanoclusters-mediated cell type-specific siRNA delivery and tracking. <i>Chemical Science</i> , 2013 , 4, 3514 Electrode Materials Engineering in Electrocatalytic CO Reduction: Energy Input and Conversion	58.5 9.4	42 41
62 61 60	Bioapplications of DNA nanotechnology at the solid-liquid interface. <i>Chemical Society Reviews</i> , 2019 , 48, 4892-4920 Aptamer-functionalized silver nanoclusters-mediated cell type-specific siRNA delivery and tracking. <i>Chemical Science</i> , 2013 , 4, 3514 Electrode Materials Engineering in Electrocatalytic CO Reduction: Energy Input and Conversion Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1903796 Signal-on Photoelectrochemical Aptasensor for Adenosine Triphosphate Detection Based on Sensitization Effect of CdS:[email[protected](bpy)2(dcbpy) Nanocomposites. <i>Journal of Physical</i>	58.5 9.4 24	42 41 40
62 61 60 59	Bioapplications of DNA nanotechnology at the solid-liquid interface. <i>Chemical Society Reviews</i> , 2019 , 48, 4892-4920 Aptamer-functionalized silver nanoclusters-mediated cell type-specific siRNA delivery and tracking. <i>Chemical Science</i> , 2013 , 4, 3514 Electrode Materials Engineering in Electrocatalytic CO Reduction: Energy Input and Conversion Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1903796 Signal-on Photoelectrochemical Aptasensor for Adenosine Triphosphate Detection Based on Sensitization Effect of CdS:[email[protected](bpy)2(dcbpy) Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15657-15665 Bio-Coreactant-Enhanced Electrochemiluminescence Microscopy of Intracellular Structure and	58.5 9.4 24 3.8	42 41 40 38
62 61 60 59 58	Bioapplications of DNA nanotechnology at the solid-liquid interface. <i>Chemical Society Reviews</i> , 2019 , 48, 4892-4920 Aptamer-functionalized silver nanoclusters-mediated cell type-specific siRNA delivery and tracking. <i>Chemical Science</i> , 2013 , 4, 3514 Electrode Materials Engineering in Electrocatalytic CO Reduction: Energy Input and Conversion Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1903796 Signal-on Photoelectrochemical Aptasensor for Adenosine Triphosphate Detection Based on Sensitization Effect of CdS:[email[protected](bpy)2(dcbpy) Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15657-15665 Bio-Coreactant-Enhanced Electrochemiluminescence Microscopy of Intracellular Structure and Transport. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4907-4914 Hydrogen Evolution Reaction Monitored by Electrochemiluminescence Blinking at	58.5 9.4 24 3.8 16.4	42 41 40 38 36

54	NADH dehydrogenase-like behavior of nitrogen-doped graphene and its application in NAD(+)-dependent dehydrogenase biosensing. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 170-6	11.8	33
53	In situ formation of large pore silica-MnO nanocomposites with H/HO sensitivity for O-elevated photodynamic therapy and potential MR imaging. <i>Chemical Communications</i> , 2018 , 54, 2962-2965	5.8	32
52	N,S-doped carbon dots as dual-functional modifiers to boost bio-electricity generation of individually-modified bacterial cells. <i>Nano Energy</i> , 2019 , 63, 103875	17.1	32
51	Tuning Sn3O4 for CO2 reduction to formate with ultra-high current density. <i>Nano Energy</i> , 2020 , 77, 105	52 9,6 1	32
50	A ternary hybrid of carbon nanotubes/graphitic carbon nitride nanosheets/gold nanoparticles used as robust substrate electrodes in enzyme biofuel cells. <i>Chemical Communications</i> , 2015 , 51, 14735-8	5.8	30
49	Ultrasensitive self-powered cytosensors based on exogenous redox-free enzyme biofuel cells as point-of-care tools for early cancer diagnosis. <i>Chemical Communications</i> , 2015 , 51, 16763-6	5.8	30
48	A Targeted DNAzyme-Nanocomposite Probe Equipped with Built-in Zn(2+) Arsenal for Combined Treatment of Gene Regulation and Drug Delivery. <i>Scientific Reports</i> , 2016 , 6, 22737	4.9	29
47	A glucose/O fuel cell-based self-powered biosensor for probing a drug delivery model with self-diagnosis and self-evaluation. <i>Chemical Science</i> , 2018 , 9, 8482-8491	9.4	28
46	Imaging the transient heat generation of individual nanostructures with a mechanoresponsive polymer. <i>Nature Communications</i> , 2017 , 8, 1498	17.4	27
45	Steady-State Electrochemiluminescence at Single Semiconductive Titanium Dioxide Nanoparticles for Local Sensing of Single Cells. <i>Analytical Chemistry</i> , 2019 , 91, 1121-1125	7.8	27
44	An"ON-OFF" switchable power output of enzymatic biofuel cell controlled by thermal-sensitive polymer. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 142-9	11.8	26
43	Graphene/Fe O Nanocomposites as Efficient Anodes to Boost the Lifetime and Current Output of Microbial Fuel Cells. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 308-313	4.5	25
42	Manganese-doped ZnS quantum dots as a phosphorescent probe for use in the bi-enzymatic determination of organophosphorus pesticides. <i>Mikrochimica Acta</i> , 2014 , 181, 1591-1599	5.8	23
41	Graphene/Au composites as an anode modifier for improving electricity generation in Shewanella-inoculated microbial fuel cells. <i>Analytical Methods</i> , 2015 , 7, 4640-4644	3.2	22
40	ELECTROCHEMICAL BEHAVIOR OF AMORPHOUS HYDROUS RUTHENIUM OXIDE/ACTIVE CARBON COMPOSITE ELECTRODES FOR SUPER-CAPACITOR. <i>International Journal of Modern Physics B</i> , 2002 , 16, 4479-4483	1.1	22
39	Core/Satellite Structured Fe3O4/Au Nanocomposites Incorporated with Three-Dimensional Macroporous Graphene Foam as a High-Performance Anode for Microbial Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1311-1318	8.3	22
38	Living and Conducting: Coating Individual Bacterial Cells with In Situ Formed Polypyrrole. <i>Angewandte Chemie</i> , 2017 , 129, 10652-10656	3.6	21
37	Coupling a DNA-Based Machine with Glucometer Readouts for Amplified Detection of Telomerase Activity in Cancer Cells. <i>Scientific Reports</i> , 2016 , 6, 23504	4.9	21

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36	Highly luminescent glutathione-capped ZnS: Mn/ZnS core/shell doped quantum dots for targeted mannosyl groups expression on the cell surface. <i>Analytical Methods</i> , 2013 , 5, 5929	3.2	20
35	Acid-degradable gadolinium-based nanoscale coordination polymer: A potential platform for targeted drug delivery and potential magnetic resonance imaging. <i>Nano Research</i> , 2018 , 11, 929-939	10	19
34	Light-Driven Nano-oscillators for Label-Free Single-Molecule Monitoring of MicroRNA. <i>Nano Letters</i> , 2018 , 18, 3759-3765	11.5	18
33	Ultrasensitive cathode photoelectrochemical immunoassay based on TiO photoanode-enhanced 3D CuO nanowire array photocathode and signal amplification by biocatalytic precipitation. <i>Analytica Chimica Acta</i> , 2018 , 1027, 33-40	6.6	18
32	Capture and selective release of multiple types of circulating tumor cells using smart DNAzyme probes. <i>Chemical Science</i> , 2020 , 11, 1948-1956	9.4	16
31	Differential pulse voltammetric indirect determination of aluminium in drinking waters, blood, urine, hair, and medicament samples using L-dopa under alkaline conditions. <i>Analyst, The</i> , 2000 , 125, 1299-302	5	16
30	A Fe3O4Darbon nanofiber/gold nanoparticle hybrid for enzymatic biofuel cells with larger power output. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11026-11031	13	15
29	Highly Efficient Photoelectrochemical Reduction of CO at Low Applied Voltage Using 3D Co-Pi/BiVO/SnO Nanosheet Array Photoanodes. <i>ACS Applied Materials & Discrete Applied & Discrete</i>	24 ⁹ 2803	31 ¹⁵
28	Efficient Blood-toleration Enzymatic Biofuel Cell Protection of an Enzyme Catalyst. <i>ACS Applied Materials & ACS Applied Materials & ACS Applied</i>	9.5	15
27	Visible-light-enhanced power generation in microbial fuel cells coupling with 3D nitrogen-doped graphene. <i>Chemical Communications</i> , 2017 , 53, 9967-9970	5.8	14
26	Synthesis and characterization of a highly stable poly (3,4-ethylenedioxythiophene)-gold nanoparticles composite film and its application to electrochemical dopamine sensors. <i>RSC Advances</i> , 2014 , 4, 8415-8420	3.7	13
25	Bio-Coreactant-Enhanced Electrochemiluminescence Microscopy of Intracellular Structure and Transport. <i>Angewandte Chemie</i> , 2021 , 133, 4957-4964	3.6	13
24	Highly sensitive fluorescence quantification of intracellular telomerase activity by repeat G-rich DNA enhanced silver nanoclusters. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 4583-4591	7.3	13
23	Highly luminescent and biocompatible near-infrared core-shell CdSeTe/CdS/C quantum dots for probe labeling tumor cells. <i>Talanta</i> , 2016 , 146, 209-15	6.2	11
22	Electrogenerated Chemiluminescence in Submicrometer Wells for Very High-Density Biosensing. <i>Analytical Chemistry</i> , 2020 , 92, 578-582	7.8	11
21	Enzymatic Biofuel Cell: Opportunities and Intrinsic Challenges in Futuristic Applications. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100031	1.6	11
20	Plasmon-enhanced cathodic reduction for accelerating electricity generation in visible-light-assisted microbial fuel cells. <i>Nano Energy</i> , 2019 , 57, 94-100	17.1	11
19	Catalytic route electrochemiluminescence microscopy of cell membranes with nitrogen-doped carbon dots as nano-coreactants. <i>Chemical Communications</i> , 2021 , 57, 2168-2171	5.8	11

18	Electrocatalytic CO2 Reduction: Electrode Materials Engineering in Electrocatalytic CO2 Reduction: Energy Input and Conversion Efficiency (Adv. Mater. 27/2020). <i>Advanced Materials</i> , 2020 , 32, 2070202	24	10
17	Self-assembled Mn-doped ZnSe quantum dothethyl viologen nanohybrids as an OFFDN fluorescent probe for time-resolved fluorescence detection of tiopronin. <i>Analytical Methods</i> , 2013 , 5, 4321	3.2	10
16	Quantitative Detection and Imaging of Multiple Biological Molecules in Living Cells for Cell Screening. <i>ACS Sensors</i> , 2020 , 5, 1149-1157	9.2	9
15	Superior efficient rechargeable lithiumBir batteries using a bifunctional biological enzyme catalyst. <i>Energy and Environmental Science</i> , 2020 , 13, 144-151	35.4	9
14	Fermi level-tuned optics of graphene for attocoulomb-scale quantification of electron transfer at single gold nanoparticles. <i>Nature Communications</i> , 2019 , 10, 3849	17.4	8
13	Layer-by-layer assembly of Au and CdS nanoparticles on the surface of bacterial cells for photo-assisted bioanodes in microbial fuel cells. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1638-1646	7.3	7
12	Visualization of an Accelerated Electrochemical Reaction under an Enhanced Electric Field. <i>Research</i> , 2021 , 2021, 1742919	7.8	6
11	A Course of Hands-On Nanopore Experiments for Undergraduates: Single-Molecule Detection with Portable Electrochemical Instruments. <i>Journal of Chemical Education</i> , 2020 , 97, 4345-4354	2.4	4
10	Trifunctional modification of individual bacterial cells for magnet-assisted bioanodes with high performance in microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24515-24523	13	3
9	Improved Current-Monitoring Method for Low Electroosmotic Flow Measurement in Modified Microchip. <i>Chromatographia</i> , 2009 , 69, 897-901	2.1	2
8	Layer-by-layer construction of in situ formed polypyrrole and bacterial cells as capacitive bioanodes for paper-based microbial fuel cells. <i>Journal of Materials Chemistry A</i> ,	13	2
7	Self-assembled nanomaterials for biosensing and therapeutics: recent advances and challenges. <i>Analyst, The</i> , 2021 , 146, 2807-2817	5	2
6	CRISPR System-Linked Self-Assembling Nanoplatforms for Inspection and Screening of Gastric Cancer Stem Cells. <i>Small</i> , 2021 , e2104622	11	2
5	Advances in the enzymatic biofuel cell powered sensing systems for tumor diagnosis and regulation. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 146, 116476	14.6	1
4	formed N-containing copper nanoparticles: a high-performance catalyst toward carbon monoxide electroreduction to multicarbon products with high faradaic efficiency and current density <i>Nanoscale</i> , 2022 , 14, 7262-7268	7.7	1
3	Simultaneous and Spatial Quantification of Telomerase Activity and DNA Methylation in Living Cells by a Deformable Satellite Nanocapsule. <i>CCS Chemistry</i> , 2021 , 3, 1231-1244	7.2	O
2	Label-Free Probing of Electron Transfer Kinetics of Single Microbial Cells on a Single-Layer Graphene via Structural Color Microscopy. <i>Nano Letters</i> , 2021 , 21, 7823-7830	11.5	0
1	REktitelbild: Living and Conducting: Coating Individual Bacterial Cells with In Situ Formed Polypyrrole (Angew. Chem. 35/2017). <i>Angewandte Chemie</i> , 2017 , 129, 10744-10744	3.6	