## Jian-Rong Zhang

## 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.

89
papers
4,357
citations

34
p-index

93
ext. papers

5,030
ext. citations

10.6
avg, IF

L-index

#	Paper	IF	Citations
89	formed N-containing copper nanoparticles: a high-performance catalyst toward carbon monoxide electroreduction to multicarbon products with high faradaic efficiency and current density  Nanoscale, 2022, 14, 7262-7268	7.7	1
88	Advances in the enzymatic biofuel cell powered sensing systems for tumor diagnosis and regulation. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2021</b> , 146, 116476	14.6	1
87	Simultaneous and Spatial Quantification of Telomerase Activity and DNA Methylation in Living Cells by a Deformable Satellite Nanocapsule. <i>CCS Chemistry</i> , <b>2021</b> , 3, 1231-1244	7.2	O
86	Enzymatic Biofuel Cell: Opportunities and Intrinsic Challenges in Futuristic Applications. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100031	1.6	11
85	Bio-Coreactant-Enhanced Electrochemiluminescence Microscopy of Intracellular Structure and Transport. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4907-4914	16.4	36
84	Bio-Coreactant-Enhanced Electrochemiluminescence Microscopy of Intracellular Structure and Transport. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4957-4964	3.6	13
83	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> , <b>2021</b> , 9, 1638-1646	7.3	7
82	Self-assembled nanomaterials for biosensing and therapeutics: recent advances and challenges. <i>Analyst, The</i> , <b>2021</b> , 146, 2807-2817	5	2
81	Catalytic route electrochemiluminescence microscopy of cell membranes with nitrogen-doped carbon dots as nano-coreactants. <i>Chemical Communications</i> , <b>2021</b> , 57, 2168-2171	5.8	11
80	Visualization of an Accelerated Electrochemical Reaction under an Enhanced Electric Field. <i>Research</i> , <b>2021</b> , 2021, 1742919	7.8	6
79	Label-Free Probing of Electron Transfer Kinetics of Single Microbial Cells on a Single-Layer Graphene via Structural Color Microscopy. <i>Nano Letters</i> , <b>2021</b> , 21, 7823-7830	11.5	О
78	CRISPR System-Linked Self-Assembling Nanoplatforms for Inspection and Screening of Gastric Cancer Stem Cells. <i>Small</i> , <b>2021</b> , e2104622	11	2
77	Hydrogen Evolution Reaction Monitored by Electrochemiluminescence Blinking at Single-Nanoparticle Level. <i>Nano Letters</i> , <b>2020</b> , 20, 5008-5016	11.5	35
76	Quantitative Detection and Imaging of Multiple Biological Molecules in Living Cells for Cell Screening. <i>ACS Sensors</i> , <b>2020</b> , 5, 1149-1157	9.2	9
75	Electrocatalytic CO2 Reduction: Electrode Materials Engineering in Electrocatalytic CO2 Reduction: Energy Input and Conversion Efficiency (Adv. Mater. 27/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070202	24	10
74	Capture and selective release of multiple types of circulating tumor cells using smart DNAzyme probes. <i>Chemical Science</i> , <b>2020</b> , 11, 1948-1956	9.4	16
73	Electrode Materials Engineering in Electrocatalytic CO Reduction: Energy Input and Conversion Efficiency. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903796	24	40

## (2018-2020)

72	Trifunctional modification of individual bacterial cells for magnet-assisted bioanodes with high performance in microbial fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24515-24523	13	3
71	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> , <b>2020</b> , 8, 1311-1318	8.3	22
70	Superior efficient rechargeable lithiumBir batteries using a bifunctional biological enzyme catalyst. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 144-151	35.4	9
69	Electrogenerated Chemiluminescence in Submicrometer Wells for Very High-Density Biosensing. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 578-582	7.8	11
68	Tuning Sn3O4 for CO2 reduction to formate with ultra-high current density. <i>Nano Energy</i> , <b>2020</b> , 77, 10,	52 <i>9</i> 61	32
67	A Course of Hands-On Nanopore Experiments for Undergraduates: Single-Molecule Detection with Portable Electrochemical Instruments. <i>Journal of Chemical Education</i> , <b>2020</b> , 97, 4345-4354	2.4	4
66	Efficient Blood-toleration Enzymatic Biofuel Cell Protection of an Enzyme Catalyst. <i>ACS Applied Materials &amp; Enzyme States</i> , 2020, 12, 41429-41436	9.5	15
65	Fermi level-tuned optics of graphene for attocoulomb-scale quantification of electron transfer at single gold nanoparticles. <i>Nature Communications</i> , <b>2019</b> , 10, 3849	17.4	8
64	Highly Efficient Photoelectrochemical Reduction of CO at Low Applied Voltage Using 3D Co-Pi/BiVO/SnO Nanosheet Array Photoanodes. <i>ACS Applied Materials &amp; Distriction (Co. Pi/BiVO)</i> 11, 2602	24 <sup>9</sup> 2803	31 <sup>15</sup>
63	An Improved Strategy for High-Quality Cesium Bismuth Bromine Perovskite Quantum Dots with Remarkable Electrochemiluminescence Activities. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8607-8614	7.8	45
62	Sustainable and Self-Enhanced Electrochemiluminescent Ternary Suprastructures Derived from CsPbBr3 Perovskite Quantum Dots. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902533	15.6	33
61	Bioapplications of DNA nanotechnology at the solid-liquid interface. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 4892-4920	58.5	42
60	N,S-doped carbon dots as dual-functional modifiers to boost bio-electricity generation of individually-modified bacterial cells. <i>Nano Energy</i> , <b>2019</b> , 63, 103875	17.1	32
59	Plasmon-enhanced cathodic reduction for accelerating electricity generation in visible-light-assisted microbial fuel cells. <i>Nano Energy</i> , <b>2019</b> , 57, 94-100	17.1	11
58	Steady-State Electrochemiluminescence at Single Semiconductive Titanium Dioxide Nanoparticles for Local Sensing of Single Cells. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1121-1125	7.8	27
57	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> , <b>2018</b> , 54, 2962-2965	5.8	32
56	Acid-degradable gadolinium-based nanoscale coordination polymer: A potential platform for targeted drug delivery and potential magnetic resonance imaging. <i>Nano Research</i> , <b>2018</b> , 11, 929-939	10	19
55	Dynamically imaging collision electrochemistry of single electrochemiluminescence nano-emitters. <i>Chemical Science</i> , <b>2018</b> , 9, 6167-6175	9.4	61

54	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> , <b>2018</b> , 44, 95-102	17.1	44
53	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> , <b>2018</b> , 9, 8482-8491	9.4	28
52	Highly sensitive fluorescence quantification of intracellular telomerase activity by repeat G-rich DNA enhanced silver nanoclusters. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 4583-4591	7.3	13
51	Light-Driven Nano-oscillators for Label-Free Single-Molecule Monitoring of MicroRNA. <i>Nano Letters</i> , <b>2018</b> , 18, 3759-3765	11.5	18
50	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> , <b>2018</b> , 1027, 33-40	6.6	18
49	Nanostructured material-based biofuel cells: recent advances and future prospects. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 1545-1564	58.5	199
48	A Fe3O4Darbon nanofiber/gold nanoparticle hybrid for enzymatic biofuel cells with larger power output. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11026-11031	13	15
47	Near-Infrared Photothermally Activated DNAzyme-Gold Nanoshells for Imaging Metal Ions in Living Cells. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6798-6802	16.4	125
46	Living and Conducting: Coating Individual Bacterial Cells with In Situ Formed Polypyrrole. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 10652-10656	3.6	21
45	Living and Conducting: Coating Individual Bacterial Cells with In Situ Formed Polypyrrole. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 10516-10520	16.4	146
44	Graphene/Fe O Nanocomposites as Efficient Anodes to Boost the Lifetime and Current Output of Microbial Fuel Cells. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 308-313	4.5	25
43	Räktitelbild: Living and Conducting: Coating Individual Bacterial Cells with In Situ Formed Polypyrrole (Angew. Chem. 35/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 10744-10744	3.6	
42	Visible-light-enhanced power generation in microbial fuel cells coupling with 3D nitrogen-doped graphene. <i>Chemical Communications</i> , <b>2017</b> , 53, 9967-9970	5.8	14
41	Imaging the transient heat generation of individual nanostructures with a mechanoresponsive polymer. <i>Nature Communications</i> , <b>2017</b> , 8, 1498	17.4	27
40	Evaluation of intracellular telomerase activity through cascade DNA logic gates. <i>Chemical Science</i> , <b>2017</b> , 8, 174-180	9.4	45
39	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> , <b>2016</b> , 77, 339-46	11.8	68
38	Highly luminescent and biocompatible near-infrared core-shell CdSeTe/CdS/C quantum dots for probe labeling tumor cells. <i>Talanta</i> , <b>2016</b> , 146, 209-15	6.2	11
37	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> , <b>2016</b> , 120, 15657-15665	3.8	38

36	Ultrasensitive self-powered cytosensor. <i>Nano Energy</i> , <b>2016</b> , 19, 541-549	17.1	43
35	Inkjet-printed porous polyaniline gel as an efficient anode for microbial fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14555-14559	13	49
34	Coupling a DNA-Based Machine with Glucometer Readouts for Amplified Detection of Telomerase Activity in Cancer Cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 23504	4.9	21
33	Cathode Photoelectrochemical Immunosensing Platform Integrating Photocathode with Photoanode. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 10352-10356	7.8	86
32	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> , <b>2016</b> , 6, 22737	4.9	29
31	Bacteria-Affinity 3D Macroporous Graphene/MWCNTs/Fe3O4 Foams for High-Performance Microbial Fuel Cells. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2016</b> , 8, 16170-7	9.5	7 <sup>2</sup>
30	Enhanced Photoelectrochemical Immunosensing Platform Based on CdSeTe@CdS:Mn Core-Shell Quantum Dots-Sensitized TiO2 Amplified by CuS Nanocrystals Conjugated Signal Antibodies. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 3392-9	7.8	156
29	A highly sensitive fluorescence assay for 2,4,6-trinitrotoluene using amine-capped silicon quantum dots as a probe. <i>Analytical Methods</i> , <b>2015</b> , 7, 1732-1737	3.2	45
28	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> , <b>2015</b> , 51, 14735-8	5.8	30
27	An"ON-OFF" switchable power output of enzymatic biofuel cell controlled by thermal-sensitive polymer. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 142-9	11.8	26
26	Graphene/Au composites as an anode modifier for improving electricity generation in Shewanella-inoculated microbial fuel cells. <i>Analytical Methods</i> , <b>2015</b> , 7, 4640-4644	3.2	22
25	"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> , <b>2015</b> , 87, 4949-56	7.8	101
24	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> , <b>2015</b> , 51, 16763-6	5.8	30
23	Design of an enzymatic biofuel cell with large power output. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11511-11516	13	51
22	A nitrogen-doped graphene/gold nanoparticle/formate dehydrogenase bioanode for high power output membrane-less formic acid/O2 biofuel cells. <i>Analyst, The</i> , <b>2015</b> , 140, 1822-6	5	34
21	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> , <b>2015</b> , 87, 3019-26	7.8	131
20	Single gold@silver nanoprobes for real-time tracing the entire autophagy process at single-cell level. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 1903-8	16.4	95
19	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> , <b>2014</b> , 4, 8415-8420	3.7	13

18	NADH dehydrogenase-like behavior of nitrogen-doped graphene and its application in NAD(+)-dependent dehydrogenase biosensing. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 62, 170-6	11.8	33
17	Manganese-doped ZnS quantum dots as a phosphorescent probe for use in the bi-enzymatic determination of organophosphorus pesticides. <i>Mikrochimica Acta</i> , <b>2014</b> , 181, 1591-1599	5.8	23
16	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> , <b>2014</b> , 59, 45-53	11.8	107
15	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> , <b>2013</b> , 1, 12587	13	121
14	Aptamer-functionalized silver nanoclusters-mediated cell type-specific siRNA delivery and tracking. <i>Chemical Science</i> , <b>2013</b> , 4, 3514	9.4	41
13	A Graphene/Poly(3,4-ethylenedioxythiophene) Hybrid as an Anode for High-Performance Microbial Fuel Cells. <i>ChemPlusChem</i> , <b>2013</b> , 78, 823-829	2.8	59
12	Self-assembled Mn-doped ZnSe quantum dotthethyl viologen nanohybrids as an OFFIDN fluorescent probe for time-resolved fluorescence detection of tiopronin. <i>Analytical Methods</i> , <b>2013</b> , 5, 4321	3.2	10
11	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> , <b>2013</b> , 5, 5929	3.2	20
10	Microwave-Assisted In Situ Synthesis of Graphene/PEDOT Hybrid and Its Application in Supercapacitors. <i>ChemPlusChem</i> , <b>2013</b> , 78, 227-234	2.8	50
9	One-pot synthesis of aptamer-functionalized silver nanoclusters for cell-type-specific imaging. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4140-6	7.8	174
8	A Facile Microwave Avenue to Electrochemiluminescent Two-Color Graphene Quantum Dots. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2971-2979	15.6	670
7	Toward the early evaluation of therapeutic effects: an electrochemical platform for ultrasensitive detection of apoptotic cells. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7902-9	7.8	74
6	Fabrication of gold nanoparticles on bilayer graphene for glucose electrochemical biosensing. Journal of Materials Chemistry, <b>2011</b> , 21, 7604		132
5	Fabrication of Graphene Quantum Dots Composites for Sensitive Electrogenerated Chemiluminescence Immunosensing. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 869-878	15.6	287
4	Improved Current-Monitoring Method for Low Electroosmotic Flow Measurement in Modified Microchip. <i>Chromatographia</i> , <b>2009</b> , 69, 897-901	2.1	2
3	ELECTROCHEMICAL BEHAVIOR OF AMORPHOUS HYDROUS RUTHENIUM OXIDE/ACTIVE CARBON COMPOSITE ELECTRODES FOR SUPER-CAPACITOR. <i>International Journal of Modern Physics B</i> , <b>2002</b> , 16, 4479-4483	1.1	22
2	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> , <b>2000</b> , 125, 1299-302	5	16
1	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