

# Hui Zhang

## List of Publications by Year in descending order

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32  
papers

1,823  
citations

304743

22  
h-index

414414

32  
g-index

32  
all docs

32  
docs citations

32  
times ranked

2677  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bimetallic Pt@Au nanocatalysts electrochemically deposited on graphene and their electrocatalytic characteristics towards oxygen reduction and methanol oxidation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4083.	2.8	243
2	Highly Sensitive Electrochemical Detection of Tumor Exosomes Based on Aptamer Recognition-Induced Multi-DNA Release and Cyclic Enzymatic Amplification. <i>Analytical Chemistry</i> , 2018, 90, 4507-4513.	6.5	191
3	Signal Amplification of Graphene Oxide Combining with Restriction Endonuclease for Site-Specific Determination of DNA Methylation and Assay of Methyltransferase Activity. <i>Analytical Chemistry</i> , 2012, 84, 7583-7590.	6.5	142
4	Active Site Structures in Nitrogen-Doped Carbon-Supported Cobalt Catalysts for the Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32875-32886.	8.0	120
5	Graphyne As a Promising Metal-Free Electrocatalyst for Oxygen Reduction Reactions in Acidic Fuel Cells: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20472-20479.	3.1	105
6	Electrochemical Sensing of Exosomal MicroRNA Based on Hybridization Chain Reaction Signal Amplification with Reduced False-Positive Signals. <i>Analytical Chemistry</i> , 2020, 92, 5302-5310.	6.5	102
7	An electrochemical approach for detection of DNA methylation and assay of the methyltransferase activity. <i>Chemical Communications</i> , 2011, 47, 2844.	4.1	94
8	Single-atom-sized Ni <sub>4</sub> sites anchored in three-dimensional hierarchical carbon nanostructures for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15012-15022.	10.3	75
9	High specific detection and near-infrared photothermal therapy of lung cancer cells with high SERS active aptamer@silver@gold shell@core nanostructures. <i>Analyst</i> , 2013, 138, 6501.	3.5	65
10	Sensitive Electrochemical Detection of Human Methyltransferase Based on a Dual Signal Amplification Strategy Coupling Gold Nanoparticle@DNA Complexes with Ru(III) Redox Recycling. <i>Analytical Chemistry</i> , 2016, 88, 11108-11114.	6.5	62
11	G-quadruplex DNAzyme-based electrochemiluminescence biosensing strategy for VEGF165 detection: Combination of aptamer@target recognition and T7 exonuclease-assisted cycling signal amplification. <i>Biosensors and Bioelectronics</i> , 2015, 74, 98-103.	10.1	58
12	An electrochemiluminescent aptasensor for amplified detection of exosomes from breast tumor cells (MCF-7 cells) based on G-quadruplex/hemin DNAzymes. <i>Analyst</i> , 2019, 144, 3668-3675.	3.5	54
13	Electrochemiluminescence signal amplification combined with a conformation-switched hairpin DNA probe for determining the methylation level and position in the Hsp53 tumor suppressor gene. <i>Chemical Communications</i> , 2014, 50, 2932-2934.	4.1	53
14	Insight into the effects of graphene oxide sheets on the conformation and activity of glucose oxidase: towards developing a nanomaterial-based protein conformation assay. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9076.	2.8	52
15	Dual-Aptamer-Assisted AND Logic Gate for Cyclic Enzymatic Signal Amplification Electrochemical Detection of Tumor-Derived Small Extracellular Vesicles. <i>Analytical Chemistry</i> , 2021, 93, 11298-11304.	6.5	48
16	New Insights into the Effects of Thermal Treatment on the Catalytic Activity and Conformational Structure of Glucose Oxidase Studied by Electrochemistry, IR Spectroscopy, and Theoretical Calculation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12754-12764.	2.6	37
17	Enhancing the Plasmon Resonance Absorption of Multibranching Gold Nanoparticles in the Near-Infrared Region for Photothermal Cancer Therapy: Theoretical Predictions and Experimental Verification. <i>Chemistry of Materials</i> , 2019, 31, 471-482.	6.7	36
18	Electrochemical aptasensor for exosomal proteins profiling based on DNA nanotetrahedron coupled with enzymatic signal amplification. <i>Analytica Chimica Acta</i> , 2020, 1130, 1-9.	5.4	35

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19	Research progress of precise structural regulation of single atom catalyst for accelerating electrocatalytic oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2022, 72, 56-72.	12.9	33
20	Highly sensitive methyltransferase activity assay and inhibitor screening based on fluorescence quenching of graphene oxide integrated with the site-specific cleavage of restriction endonuclease. <i>Chemical Communications</i> , 2014, 50, 10691-10694.	4.1	30
21	A superstructure-based electrochemical assay for signal-amplified detection of DNA methyltransferase activity. <i>Biosensors and Bioelectronics</i> , 2016, 86, 927-932.	10.1	29
22	An electrochemiluminescence assay for sensitive detection of methyltransferase activity in different cancer cells by hybridization chain reaction coupled with a G-quadruplex/hemin DNAzyme biosensing strategy. <i>Analyst, The</i> , 2017, 142, 2013-2019.	3.5	24
23	A facile and label-free electrochemical aptasensor for tumour-derived extracellular vesicle detection based on the target-induced proximity hybridization of split aptamers. <i>Analyst, The</i> , 2020, 145, 3557-3563.	3.5	20
24	Effects of guanidinium ions on the conformational structure of glucose oxidase studied by electrochemistry, spectroscopy, and theoretical calculations: towards developing a chemical-induced protein conformation assay. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5824.	2.8	19
25	Dual-signal ratiometric electrochemiluminescence assay for detecting the activity of human methyltransferase. <i>Analyst, The</i> , 2018, 143, 3353-3359.	3.5	19
26	Electrochemical approach for the specific detection of hepatitis C virus based on site-specific DNA cleavage of BamHI endonuclease. <i>Analytical Methods</i> , 2010, 2, 135-142.	2.7	14
27	Electrochemical probing of the solution pH-induced structural alterations around the heme group in myoglobin. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16941.	2.8	14
28	Probing the anticancer-drug-binding-induced microenvironment alterations in subdomain IIA of human serum albumin. <i>Journal of Colloid and Interface Science</i> , 2015, 445, 102-111.	9.4	14
29	Electrochemical signal-amplified detection of 5-methylcytosine and 5-hydroxymethylcytosine in DNA using glucose modification coupled with restriction endonucleases. <i>Analyst, The</i> , 2018, 143, 2051-2056.	3.5	13
30	Anisotropic plasmonic Pd-tipped Au nanorods for near-infrared light-activated photoacoustic imaging guided photothermalâ€“photodynamic cancer therapy. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2028-2037.	5.8	8
31	Ligand-free sub-5 nm platinum nanocatalysts on polydopamine supports: size-controlled synthesis and size-dictated reaction pathway selection. <i>Nanoscale</i> , 2022, 14, 5743-5750.	5.6	8
32	Tuning the electron transport band gap of bovine serum albumin by doping with Vb12. <i>Chemical Communications</i> , 2019, 55, 2853-2856.	4.1	6