

Wei Zhao

List of Publications by Year in descending order

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53
papers

2,570
citations

159585

30
h-index

189892

50
g-index

53
all docs

53
docs citations

53
times ranked

2065
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Wavelength Electrochemiluminescence Ratiometry Based on Resonance Energy Transfer between Au Nanoparticles Functionalized g-C ₃ N ₄ Nanosheet and Ru(bpy) ₃ ²⁺ for microRNA Detection. <i>Analytical Chemistry</i> , 2016, 88, 937-944.	6.5	297
2	Electrogenerated Chemiluminescence Imaging of Electrocatalysis at a Single Au@Pt Janus Nanoparticle. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4010-4014.	13.8	145
3	Visual Color-Switch Electrochemiluminescence Biosensing of Cancer Cell Based on Multichannel Bipolar Electrode Chip. <i>Analytical Chemistry</i> , 2016, 88, 2884-2890.	6.5	106
4	Ultrasmall Nanopipette: Toward Continuous Monitoring of Redox Metabolism at Subcellular Level. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13226-13230.	13.8	105
5	Ultrasensitive MicroRNA Assay via Surface Plasmon Resonance Responses of Au@Ag Nanorods Etching. <i>Analytical Chemistry</i> , 2017, 89, 10585-10591.	6.5	94
6	Bipolar Electrode Based Multicolor Electrochemiluminescence Biosensor. <i>Analytical Chemistry</i> , 2017, 89, 8050-8056.	6.5	89
7	Electrogenerated chemiluminescence detection of single entities. <i>Chemical Science</i> , 2021, 12, 5720-5736.	7.4	88
8	Bidirectional Electrochemiluminescence Color Switch: An Application in Detecting Multimarkers of Prostate Cancer. <i>Analytical Chemistry</i> , 2018, 90, 3570-3575.	6.5	86
9	Electrochemiluminescence Energy Resonance Transfer System between RuSi Nanoparticles and Hollow Au Nanocages for Nucleic Acid Detection. <i>Analytical Chemistry</i> , 2018, 90, 10434-10441.	6.5	84
10	Exploration of the Kinetics of Toehold-Mediated Strand Displacement <i>via</i> Plasmon Rulers. <i>ACS Nano</i> , 2018, 12, 3341-3350.	14.6	83
11	Plasmon-Enhanced Electrochemiluminescence for Nucleic Acid Detection Based on Gold Nanodendrites. <i>Analytical Chemistry</i> , 2018, 90, 1340-1347.	6.5	80
12	Super-Resolution Electrogenerated Chemiluminescence Microscopy for Single-Nanocatalyst Imaging. <i>Journal of the American Chemical Society</i> , 2021, 143, 18511-18518.	13.7	74
13	Spatiotemporal imaging of electrocatalytic activity on single 2D gold nanoplates <i>via</i> electrogenerated chemiluminescence microscopy. <i>Chemical Science</i> , 2019, 10, 4141-4147.	7.4	62
14	Temporal Sensing Platform Based on Bipolar Electrode for the Ultrasensitive Detection of Cancer Cells. <i>Analytical Chemistry</i> , 2016, 88, 8795-8801.	6.5	60
15	DNA tetrahedral scaffolds-based platform for the construction of electrochemiluminescence biosensor. <i>Biosensors and Bioelectronics</i> , 2017, 90, 251-257.	10.1	58
16	Distance mediated electrochemiluminescence enhancement of CdS thin films induced by the plasmon coupling of gold nanoparticle dimers. <i>Chemical Communications</i> , 2016, 52, 14230-14233.	4.1	56
17	Spatial-resolved electrochemiluminescence ratiometry based on bipolar electrode for bioanalysis. <i>Biosensors and Bioelectronics</i> , 2016, 86, 683-689.	10.1	55
18	An exploration of nucleic acid liquid biopsy using a glucose meter. <i>Chemical Science</i> , 2018, 9, 3517-3522.	7.4	54

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19	Visual electrochemiluminescence ratiometry on bipolar electrode for bioanalysis. <i>Biosensors and Bioelectronics</i> , 2018, 102, 624-630.	10.1	50
20	Bidirectional Electrochemiluminescent Sensing: An Application in Detecting miRNA-141. <i>Analytical Chemistry</i> , 2019, 91, 12000-12005.	6.5	46
21	Oriented assembly of invisible probes: towards single mRNA imaging in living cells. <i>Chemical Science</i> , 2016, 7, 3256-3263.	7.4	45
22	Electrogenerated Chemiluminescence Imaging of Electrocatalysis at a Single Au@Pt Janus Nanoparticle. <i>Angewandte Chemie</i> , 2018, 130, 4074-4078.	2.0	44
23	Ultrasensitive Nucleic Acid Assay Based on Cyclometalated Iridium(III) Complex with High Electrochemiluminescence Efficiency. <i>Analytical Chemistry</i> , 2021, 93, 1686-1692.	6.5	41
24	A plasmon-enhanced theranostic nanoplatform for synergistic chemo-phototherapy of hypoxic tumors in the NIR-II window. <i>Chemical Science</i> , 2021, 12, 10848-10854.	7.4	40
25	A colorimetric/fluorescent dual-mode sensor for ultra-sensitive detection of Hg ²⁺ . <i>Talanta</i> , 2017, 165, 570-576.	5.5	38
26	Single Cell Imaging of Electrochemiluminescence-Driven Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	38
27	Electrochemical synthesis of Au@semiconductor core-shell nanocrystals guided by single particle plasmonic imaging. <i>Chemical Science</i> , 2019, 10, 9308-9314.	7.4	36
28	Ultrasensitive Detection of MicroRNA via a Au@Ag Nanosnowman. <i>Analytical Chemistry</i> , 2019, 91, 15988-15992.	6.5	34
29	Trace Ir(III) complex enhanced electrochemiluminescence of AIE-active Pdots in aqueous media. <i>Science China Chemistry</i> , 2020, 63, 715-721.	8.2	34
30	Nanopore-Based Electrochemiluminescence for Detection of MicroRNAs via Duplex-Specific Nuclease-Assisted Target Recycling. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 33360-33367.	8.0	32
31	Joint enhancement strategy applied in ECL biosensor based on closed bipolar electrodes for the detection of PSA. <i>Talanta</i> , 2016, 154, 169-174.	5.5	30
32	Highly Efficient Aggregation-Induced Electrochemiluminescence of Polyfluorene Derivative Nanoparticles Containing Tetraphenylethylene. <i>IScience</i> , 2020, 23, 100774.	4.1	30
33	Bipolar Electrode Array for Multiplexed Detection of Prostate Cancer Biomarkers. <i>Analytical Chemistry</i> , 2022, 94, 3005-3012.	6.5	30
34	Dynamic Single Molecular Rulers: Toward Quantitative Detection of MicroRNA-21 in Living Cells. <i>Analytical Chemistry</i> , 2018, 90, 14255-14259.	6.5	27
35	Alkaline Phosphatase-Triggered Etching of Au@FeOOH Nanoparticles for Enzyme Level Assay under Dark-Field Microscopy. <i>Analytical Chemistry</i> , 2021, 93, 10727-10734.	6.5	27
36	Real-Time Tracking the Electrochemical Synthesis of Au@Metal Core-Shell Nanoparticles toward Photo Enhanced Methanol Oxidation. <i>Analytical Chemistry</i> , 2020, 92, 14006-14011.	6.5	26

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37	Observing the structure-dependent electrocatalytic activity of bimetallic Pd@Au nanorods at the single-particle level. <i>Chemical Communications</i> , 2020, 56, 3413-3416.	4.1	24
38	Single-molecule imaging of telomerase activity via linear plasmon rulers. <i>Chemical Communications</i> , 2017, 53, 4710-4713.	4.1	21
39	Plasmonic nanohalo optical probes for highly sensitive imaging of survivin mRNA in living cells. <i>Chemical Communications</i> , 2016, 52, 11052-11055.	4.1	20
40	Ultrasensitive detection of microRNA-21 based on plasmon-coupling-induced electrochemiluminescence enhancement. <i>Electrochemistry Communications</i> , 2018, 94, 36-40.	4.7	20
41	Multi-segmented Cd@Au nanorods for electrochemiluminescence bioanalysis. <i>Nanoscale</i> , 2018, 10, 19224-19230.	5.6	19
42	Regulation and imaging of gene expression via an RNA interference antagonistic biomimetic probe. <i>Chemical Science</i> , 2017, 8, 4973-4977.	7.4	18
43	Ultrasmall Nanopipette: Toward Continuous Monitoring of Redox Metabolism at Subcellular Level. <i>Angewandte Chemie</i> , 2018, 130, 13410-13414.	2.0	18
44	Dark-field microscopic real-time monitoring the growth of Au on Cu ₂ O nanocubes for ultra-sensitive glucose detection. <i>Analytica Chimica Acta</i> , 2021, 1162, 338503.	5.4	18
45	A PCR-free colorimetric strategy for visualized assay of telomerase activity. <i>Talanta</i> , 2018, 178, 594-599.	5.5	15
46	Gold nanorod-assisted near-infrared light-mediated regulation of membrane ion channels activates apoptotic pathways. <i>Chemical Communications</i> , 2020, 56, 6118-6121.	4.1	15
47	Living-Cell MicroRNA Imaging with Self-Assembling Fragments of Fluorescent Protein-Mimic RNA Aptamer. <i>ACS Sensors</i> , 2021, 6, 2339-2347.	7.8	15
48	Chemical Measurement and Analysis: from Phenomenon to Essence. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1975-1986.	4.9	12
49	Efficient NIR electrochemiluminescent dyes based on ruthenium(II) complexes containing an N-heterocyclic carbene ligand. <i>Chemical Communications</i> , 2021, 57, 1254-1257.	4.1	11
50	Dark-Field Imaging of Cation Exchange Synthesis of Cu ₂ S@Au ₂ S@Au Nanoplates toward the Plasmonic Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6515-6521.	8.0	7
51	On-line Identification of chiral ofloxacin in milk with an extraction/ionization device coupled to Electrospray Mass Spectrometry. <i>Talanta</i> , 2017, 171, 190-196.	5.5	6
52	Single Cell Imaging of Electrochemiluminescence-Driven Photodynamic Therapy. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	5
53	Single particle plasmonic and electrochemical dual mode detection of amantadine. <i>Analytica Chimica Acta</i> , 2022, 1209, 339838.	5.4	2