

Meining Zhang

List of Publications by Year in descending order

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102
papers

6,228
citations

66343

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69250

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104
all docs

104
docs citations

104
times ranked

7732
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of Methylene Blue Dye onto Carbon Nanotubes: A Route to an Electrochemically Functional Nanostructure and Its Layer-by-Layer Assembled Nanocomposite. <i>Chemistry of Materials</i> , 2005, 17, 3457-3463.	6.7	340
2	Layer-by-layer assembled carbon nanotubes for selective determination of dopamine in the presence of ascorbic acid. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1270-1276.	10.1	319
3	Electrochemistry and Electroanalytical Applications of Carbon Nanotubes: A Review. <i>Analytical Sciences</i> , 2005, 21, 1383-1393.	1.6	289
4	Nanoscale ATP-Responsive Zeolitic Imidazole Framework-90 as a General Platform for Cytosolic Protein Delivery and Genome Editing. <i>Journal of the American Chemical Society</i> , 2019, 141, 3782-3786.	13.7	286
5	Electrostatic Layer-by-Layer Assembled Carbon Nanotube Multilayer Film and Its Electrocatalytic Activity for O ₂ Reduction. <i>Langmuir</i> , 2004, 20, 8781-8785.	3.5	255
6	Structure-Based Enhanced Capacitance: In Situ Growth of Highly Ordered Polyaniline Nanorods on Reduced Graphene Oxide Patterns. <i>Advanced Functional Materials</i> , 2012, 22, 1284-1290.	14.9	241
7	Assembly of Ni(OH) ₂ nanoplates on reduced graphene oxide: a two dimensional nanocomposite for enzyme-free glucose sensing. <i>Journal of Materials Chemistry</i> , 2011, 21, 16949.	6.7	240
8	Carbon Nanotube-Modified Carbon Fiber Microelectrodes for In Vivo Voltammetric Measurement of Ascorbic Acid in Rat Brain. <i>Analytical Chemistry</i> , 2007, 79, 6559-6565.	6.5	225
9	Electrochemical, spectroscopic and theoretical studies of a simple bifunctional cobalt corrole catalyst for oxygen evolution and hydrogen production. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1883-1893.	2.8	188
10	Noncovalent Immobilization of a Pyrene-Modified Cobalt Corrole on Carbon Supports for Enhanced Electrocatalytic Oxygen Reduction and Oxygen Evolution in Aqueous Solutions. <i>ACS Catalysis</i> , 2016, 6, 6429-6437.	11.2	170
11	In Vivo Analysis with Electrochemical Sensors and Biosensors. <i>Analytical Chemistry</i> , 2017, 89, 300-313.	6.5	169
12	Rational Design of Surface/Interface Chemistry for Quantitative in Vivo Monitoring of Brain Chemistry. <i>Accounts of Chemical Research</i> , 2012, 45, 533-543.	15.6	159
13	Ultrathin Cell Membrane-Mimic Phosphorylcholine Polymer Film Coating Enables Large Improvements for In Vivo Electrochemical Detection. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11802-11806.	13.8	130
14	Continuous On-Line Monitoring of Extracellular Ascorbate Depletion in the Rat Striatum Induced by Global Ischemia with Carbon Nanotube-Modified Glassy Carbon Electrode Integrated into a Thin-Layer Radial Flow Cell. <i>Analytical Chemistry</i> , 2005, 77, 6234-6242.	6.5	125
15	Rational designs of in vivo CRISPR-Cas delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2021, 168, 3-29.	13.7	125
16	Silver Nanoparticles Coated Zinc Oxide Nanorods Array as Superhydrophobic Substrate for the Amplified SERS Effect. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9977-9983.	3.1	118
17	Bioelectrochemically Functional Nanohybrids through Co-Assembling of Proteins and Surfactants onto Carbon Nanotubes: Facilitated Electron Transfer of Assembled Proteins with Enhanced Faradic Response. <i>Langmuir</i> , 2005, 21, 6560-6566.	3.5	115
18	Photochemical Aging of Beijing Urban PM _{2.5} : HONO Production. <i>Environmental Science & Technology</i> , 2018, 52, 6309-6316.	10.0	108

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19	Vertically Aligned Carbon Nanotube-Sheathed Carbon Fibers as Pristine Microelectrodes for Selective Monitoring of Ascorbate in Vivo. <i>Analytical Chemistry</i> , 2014, 86, 3909-3914.	6.5	102
20	Electrochemical Deposition of Nickel Nanoparticles on Reduced Graphene Oxide Film for Nonenzymatic Glucose Sensing. <i>Electroanalysis</i> , 2013, 25, 959-966.	2.9	101
21	Facile synthesis of S, N co-doped carbon dots and investigation of their photoluminescence properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20154-20159.	2.8	101
22	CuO Nanoparticles-Containing Highly Transparent and Superhydrophobic Coatings with Extremely Low Bacterial Adhesion and Excellent Bactericidal Property. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25717-25725.	8.0	99
23	Zwitterionic Polydopamine Engineered Interface for In Vivo Sensing with High Biocompatibility. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23445-23449.	13.8	92
24	In Vivo Monitoring of H ₂ O ₂ with Polydopamine and Prussian Blue-coated Microelectrode. <i>Analytical Chemistry</i> , 2016, 88, 7769-7776.	6.5	87
25	Reaction-Based Turn-on Electrochemiluminescent Sensor with a Ruthenium(II) Complex for Selective Detection of Extracellular Hydrogen Sulfide in Rat Brain. <i>Analytical Chemistry</i> , 2015, 87, 1839-1845.	6.5	86
26	Quenching of the Electrochemiluminescence of Tris(2,2'-bipyridine)ruthenium(II)/Tri-n-propylamine by Pristine Carbon Nanotube and Its Application to Quantitative Detection of DNA. <i>Analytical Chemistry</i> , 2013, 85, 1711-1718.	6.5	77
27	Role of elemental carbon in the photochemical aging of soot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7717-7722.	7.1	70
28	A Generalizable and Noncovalent Strategy for Interfacing Aptamers with a Microelectrode for the Selective Sensing of Neurotransmitters In Vivo. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18996-19000.	13.8	70
29	Biomimetic graphene-FePt nanohybrids with high solubility, ferromagnetism, fluorescence, and enhanced electrocatalytic activity. <i>Journal of Materials Chemistry</i> , 2012, 22, 17190.	6.7	66
30	Reduction of Ammineruthenium(III) by Sulfide Enables In Vivo Electrochemical Monitoring of Free Endogenous Hydrogen Sulfide. <i>Analytical Chemistry</i> , 2017, 89, 5382-5388.	6.5	65
31	Cobalt Corrole on Carbon Nanotube as a Synergistic Catalyst for Oxygen Reduction Reaction in Acid Media. <i>Electrochimica Acta</i> , 2015, 171, 81-88.	5.2	64
32	Cell-Selective Messenger RNA Delivery and CRISPR/Cas9 Genome Editing by Modulating the Interface of Phenylboronic Acid-Derived Lipid Nanoparticles and Cellular Surface Sialic Acid. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46585-46590.	8.0	63
33	Polyhedral Oligomeric Silsesquioxane Polymer-Caged Silver Nanoparticle as a Smart Colorimetric Probe for the Detection of Hydrogen Sulfide. <i>Analytical Chemistry</i> , 2017, 89, 1346-1352.	6.5	62
34	Protein Pretreatment of Microelectrodes Enables in Vivo Electrochemical Measurements with Easy Precalibration and Interference-Free from Proteins. <i>Analytical Chemistry</i> , 2016, 88, 7238-7244.	6.5	58
35	Single-atom electrocatalysis: a new approach to in vivo electrochemical biosensing. <i>Science China Chemistry</i> , 2019, 62, 1720-1724.	8.2	57
36	Platinized Aligned Carbon Nanotube-Sheathed Carbon Fiber Microelectrodes for In Vivo Amperometric Monitoring of Oxygen. <i>Analytical Chemistry</i> , 2014, 86, 5017-5023.	6.5	56

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37	Low-Fouling Nanoporous Conductive Polymer-Coated Microelectrode for In Vivo Monitoring of Dopamine in the Rat Brain. <i>Analytical Chemistry</i> , 2019, 91, 10786-10791.	6.5	54
38	Photochemical Aging of Soot in the Aqueous Phase: Release of Dissolved Black Carbon and the Formation of $I^{\cdot-}$ and $O_2^{\cdot-}$. <i>Environmental Science & Technology</i> , 2019, 53, 12311-12319.	10.0	50
39	Gold Nanoclusters@Ru(bpy) ₃ ²⁺ -Layered Double Hydroxide Ultrathin Film as a Cathodic Electrochemiluminescence Resonance Energy Transfer Probe. <i>Analytical Chemistry</i> , 2015, 87, 8026-8032.	6.5	47
40	Recent advances on in vivo analysis of ascorbic acid in brain functions. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 109, 247-259.	11.4	47
41	Graphdiyne: A New Carbon Allotrope for Electrochemiluminescence. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	45
42	Unveiling the Role of DJ-1 Protein in Vesicular Storage and Release of Catecholamine with Nano/Micro-Tip Electrodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11061-11065.	13.8	44
43	Enzyme-based amperometric biosensors for continuous and on-line monitoring of cerebral extracellular microdialysate. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 345.	3.0	43
44	Rational Design and Construction of Well-Organized Macro-Mesoporous SiO ₂ /TiO ₂ Nanostructure toward Robust High-Performance Self-Cleaning Antireflective Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17466-17475.	8.0	40
45	Inkjet Printing Enabled Controllable Paper Superhydrophobization and Its Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11343-11349.	8.0	40
46	Co@C Nanoparticle Embedded Hierarchically Porous N-Doped Hollow Carbon for Efficient Oxygen Reduction. <i>Chemistry - A European Journal</i> , 2018, 24, 10178-10185.	3.3	40
47	Stabilization of Prussian blue with polyaniline and carbon nanotubes in neutral media for in vivo determination of glucose in rat brains. <i>Analyst</i> , 2015, 140, 3746-3752.	3.5	36
48	Ultrathin Cell-Membrane-Mimic Phosphorylcholine Polymer Film Coating Enables Large Improvements for In vivo Electrochemical Detection. <i>Angewandte Chemie</i> , 2017, 129, 11964-11968.	2.0	36
49	Facile Fabrication of a Flexible LiNbO ₃ Piezoelectric Sensor through Hot Pressing for Biomechanical Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34687-34695.	8.0	35
50	Portable Hg ²⁺ Nanosensor with ppt Level Sensitivity Using Nanozyme as the Recognition Unit, Enrichment Carrier, and Signal Amplifier. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11761-11768.	8.0	34
51	A mixed-ion strategy to construct CNT-decorated Co/N-doped hollow carbon for enhanced oxygen reduction. <i>Chemical Communications</i> , 2018, 54, 11570-11573.	4.1	33
52	Renewable and Ultralong Nanoelectrochemical Sensor: Nanoskiving Fabrication and Application for Monitoring Cell Release. <i>Analytical Chemistry</i> , 2016, 88, 1117-1122.	6.5	30
53	Extracellularly oxidative activation and inactivation of matured prodrug for cryptic self-resistance in naphthridinomycin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11232-11237.	7.1	29
54	Collision of Aptamer/Pt Nanoparticles Enables Label-Free Amperometric Detection of Protein in Rat Brain. <i>Analytical Chemistry</i> , 2019, 91, 5654-5659.	6.5	28

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55	Studies on the electrostatic effects of stretched PVDF films and nanofibers. <i>Nanoscale Research Letters</i> , 2021, 16, 79.	5.7	27
56	Nitrate-Enhanced Oxidation of SO ₂ on Mineral Dust: A Vital Role of a Proton. <i>Environmental Science & Technology</i> , 2019, 53, 10139-10145.	10.0	25
57	Nearly Monodisperse Copper Selenide Nanoparticles for Recognition, Enrichment, and Sensing of Mercury Ions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39118-39126.	8.0	25
58	Lotus Seedpod Inspired SERS Substrates: A Novel Platform Consisting of 3D Sub-10 nm Annular Hot Spots for Ultrasensitive SERS Detection. <i>Advanced Optical Materials</i> , 2018, 6, 1800056.	7.3	24
59	Photoinduced Uptake and Oxidation of SO ₂ on Beijing Urban PM _{2.5} . <i>Environmental Science & Technology</i> , 2020, 54, 14868-14876.	10.0	24
60	The Key Role of Sulfate in the Photochemical Renoxification on Real PM _{2.5} . <i>Environmental Science & Technology</i> , 2020, 54, 3121-3128.	10.0	24
61	Support-Free PEDOT:PSS Fibers as Multifunctional Microelectrodes for In Vivo Neural Recording and Modulation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	24
62	Studying the Adhesion Force and Glass Transition of Thin Polystyrene Films by Atomic Force Microscopy. <i>Nanoscale Research Letters</i> , 2018, 13, 5.	5.7	23
63	Unveiling the Role of DJ-1 Protein in Vesicular Storage and Release of Catecholamine with Nano/Micro-Tip Electrodes. <i>Angewandte Chemie</i> , 2020, 132, 11154-11158.	2.0	23
64	Electrochemical synthesis of Au/polyaniline-poly(4-styrenesulfonate) hybrid nanoarray for sensitive biosensor design. <i>Electrochemistry Communications</i> , 2008, 10, 1090-1093.	4.7	22
65	Hydrogel-Encapsulated Enzyme Facilitates Colorimetric Acute Toxicity Assessment of Heavy Metal Ions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26705-26712.	8.0	22
66	Ag ₂ S/Ag Nanoparticle Microelectrodes for In Vivo Potentiometric Measurement of Hydrogen Sulfide Dynamics in the Rat Brain. <i>Analytical Chemistry</i> , 2021, 93, 7063-7070.	6.5	20
67	Metallic nanostructures assembled by DNA and related applications in surface-enhancement Raman scattering (SERS) detection. <i>Journal of Materials Chemistry</i> , 2011, 21, 16675.	6.7	19
68	Paper-Based Hydrophobic/Lipophobic Surface for Sensing Applications Involving Aggressive Liquids. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600672.	3.7	19
69	A Generalizable and Noncovalent Strategy for Interfacing Aptamers with a Microelectrode for the Selective Sensing of Neurotransmitters In Vivo. <i>Angewandte Chemie</i> , 2020, 132, 19158-19162.	2.0	18
70	Developing chemically modified redox-responsive proteins as smart therapeutics. <i>Chemical Communications</i> , 2019, 55, 5163-5166.	4.1	14
71	Vitamin D Inhibits the Early Aggregation of α -Synuclein and Modulates Exocytosis Revealed by Electrochemical Measurements. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202111853.	13.8	14
72	Carbon Nanotube Paper-Based Electrode for Electrochemical Detection of Chemicals in Rat Microdialysate. <i>Electroanalysis</i> , 2018, 30, 1022-1027.	2.9	13

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73	Enhanced Photochemical Volatile Organic Compounds Release from Fatty Acids by Surface-Enriched Fe(III). <i>Environmental Science & Technology</i> , 2020, 54, 13448-13457.	10.0	12
74	Methylamine-assisted secondary grain growth for CH ₃ NH ₃ PbI ₃ perovskite films with large grains and a highly preferred orientation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7625-7630.	10.3	12
75	Absorbance enhancement of aptamers/GNP enables sensitive protein detection in rat brains. <i>Chemical Communications</i> , 2018, 54, 1193-1196.	4.1	11
76	Zwitterionic Polydopamine Engineered Interface for In Vivo Sensing with High Biocompatibility. <i>Angewandte Chemie</i> , 2020, 132, 23651-23655.	2.0	11
77	Reductive inactivation of the hemiaminal pharmacophore for resistance against tetrahydroisoquinoline antibiotics. <i>Nature Communications</i> , 2021, 12, 7085.	12.8	11
78	Electrochemical Sensing of Ascorbate as an Index of Neuroprotection from Seizure Activity by Physical Exercise in Freely Moving Rats. <i>ACS Sensors</i> , 2021, 6, 546-552.	7.8	10
79	Studying the Pyroelectric Effects of LiNbO ₃ Modified Composites. <i>Nanoscale Research Letters</i> , 2020, 15, 106.	5.7	9
80	Facile fabrication of regular Au microband electrode arrays for voltammetric detection down to submicromolar level by hydrogel etching. <i>Electrochemistry Communications</i> , 2013, 30, 67-70.	4.7	7
81	Photochemical aging of Beijing urban PM _{2.5} : Production of oxygenated volatile organic compounds. <i>Science of the Total Environment</i> , 2020, 743, 140751.	8.0	7
82	Support-free PEDOT:PSS Fibers as Multifunctional Microelectrodes for In Vivo Neural Recording and Modulation. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
83	A cobalt corrole/carbon nanotube enables simultaneous electrochemical monitoring of oxygen and ascorbic acid in the rat brain. <i>Analyst, The</i> , 2020, 145, 70-75.	3.5	6
84	In Vivo Detection of Redox-Inactive Neurochemicals in the Rat Brain with an Ion Transfer Microsensor. <i>ACS Sensors</i> , 2021, 6, 2757-2762.	7.8	6
85	Sensitive and reusable electrochemiluminescent aptasensor achieved with diblock oligonucleotides immobilized solely through preferential adenine-Au interaction. <i>Analyst, The</i> , 2013, 138, 5706.	3.5	5
86	In situ formation of artificial moth-eye structure by spontaneous nano-phase separation. <i>Scientific Reports</i> , 2018, 8, 1082.	3.3	5
87	Nanosizing fabrication of size-controlled Au nanowire electrodes for electroanalysis. <i>Analyst, The</i> , 2019, 144, 2914-2921.	3.5	5
88	Recent progress in improving the performance of in vivo electrochemical microsensor based on materials. <i>Current Opinion in Electrochemistry</i> , 2022, 33, 100957.	4.8	5
89	In Situ Probing the Relaxation Properties of Ultrathin Polystyrene Films by Using Electric Force Microscopy. <i>Nanoscale Research Letters</i> , 2017, 12, 257.	5.7	4
90	From 1D to 3D: Fabrication of CH ₃ NH ₃ PbI ₃ Perovskite Solar Cell Thin Films from (Pyrrolidinium)PbI ₃ via Organic Cation Exchange Approach. <i>Energy Technology</i> , 2020, 8, 2000148.	3.8	4

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91	Vitamin D Inhibits the Early Aggregation of α -Synuclein and Modulates Exocytosis Revealed by Electrochemical Measurements. <i>Angewandte Chemie</i> , 0, , .	2.0	4
92	Stabilizing all-inorganic CsPbI ₃ perovskite films with polyacrylonitrile for photovoltaic solar cells. <i>Energy Advances</i> , 2022, 1, 62-66.	3.3	4
93	Charge-Pattern Indicated Relaxation Dynamics and Glass Transition of Polymer Thin Films Studied by Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12157-12162.	3.1	3
94	In Vivo Detection of Hydrogen Sulfide in Brain and Cell. <i>Electroanalysis</i> , 2022, 34, 1027-1040.	2.9	3
95	DNA-nanohydrogel self-assembled gold nanoparticles: co-profiling of multiple small molecule reductants in rat brain. <i>Chemical Communications</i> , 2019, 55, 9019-9022.	4.1	2
96	Observing Single Hollow Porous Carbon Catalyst Collisions for Oxygen Reduction at Gold Nanoband Electrode. <i>ChemPhysChem</i> , 2019, 20, 529-532.	2.1	2
97	Graphdiyne: A new Carbon Allotrope for Electrochemiluminescence. <i>Angewandte Chemie</i> , 0, , .	2.0	2
98	Synthesis and Characterization of Two Linear Fe ^{II} Clusters Coordinated by Bis(pyridine-2-ylmethyl)amine (BPA): [(BPA)(DMF)FeS ₂ MS ₂] (M = Mo, W). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 1225-1229.	1.2	0
99	A new method to determine the thickness of platinum nanofilm simply by measuring its electrical resistance. <i>Analytical Methods</i> , 2014, 6, 337-340.	2.7	0
100	(Invited) In Vivo Electrochemical Monitoring of Free Endogenous Hydrogen Sulfide. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
101	(Invited) Modulate the Surface of Microelectrode for In Vivo Analysis. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1914-1914.	0.0	0
102	Titelbild: Zwitterionic Polydopamine Engineered Interface for In Vivo Sensing with High Biocompatibility (<i>Angew. Chem.</i> 52/2020). <i>Angewandte Chemie</i> , 2020, 132, 24112-24112.	2.0	0