

Ling Zhang

List of Publications by Year in descending order

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62
papers

3,626
citations

201674

27
h-index

128289

60
g-index

65
all docs

65
docs citations

65
times ranked

6205
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Electrocatalysis for Energy-Efficient Hydrogen Production over CoP Catalyst with Nonelectroactive Zn as a Promoter. <i>Advanced Energy Materials</i> , 2017, 7, 1700020.	19.5	519
2	Shape-Controlled Synthesis of Single-Crystalline Palladium Nanocrystals. <i>ACS Nano</i> , 2010, 4, 1987-1996.	14.6	380
3	Copper nanoclusters as peroxidase mimetics and their applications to H ₂ O ₂ and glucose detection. <i>Analytica Chimica Acta</i> , 2013, 762, 83-86.	5.4	302
4	Highly sensitive fluorescent detection of trypsin based on BSA-stabilized gold nanoclusters. <i>Biosensors and Bioelectronics</i> , 2012, 32, 297-299.	10.1	232
5	Synthesis and applications of noble metal nanocrystals with high-energy facets. <i>Nano Today</i> , 2012, 7, 586-605.	11.9	224
6	Efficient Electrochemical N ₂ Reduction to NH ₃ on MoN Nanosheets Array under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9550-9554.	6.7	210
7	Seed-mediated growth of noble metal nanocrystals: crystal growth and shape control. <i>Nanoscale</i> , 2013, 5, 3172.	5.6	173
8	A Template-Free and Surfactant-Free Method for High-Yield Synthesis of Highly Monodisperse 3-Aminophenol-Formaldehyde Resin and Carbon Nano/Microspheres. <i>Macromolecules</i> , 2013, 46, 140-145.	4.8	155
9	Label-free sandwich electrochemiluminescence assay for detection of sub-nanomolar Hg ²⁺ . <i>Chemical Communications</i> , 2011, 47, 11951.	4.1	84
10	Surface Modification of a NiS ₂ Nanoarray with Ni(OH) ₂ toward Superior Water Reduction Electrocatalysis in Alkaline Media. <i>Inorganic Chemistry</i> , 2017, 56, 13651-13654.	4.0	84
11	Efficient Hydrogen Evolution Electrocatalysis at Alkaline pH by Interface Engineering of Ni ₂ P@CeO ₂ . <i>Inorganic Chemistry</i> , 2018, 57, 548-552.	4.0	78
12	Synthesis of Convex Hexoctahedral Palladium@Gold Core-Shell Nanocrystals with {431} High-Index Facets with Remarkable Electrochemiluminescence Activities. <i>ACS Nano</i> , 2014, 8, 5953-5958.	14.6	76
13	Electrochemiluminescence Resonance Energy Transfer Based on Ru(phen) ₃ ²⁺ -Doped Silica Nanoparticles and Its Application in "Turn-on" Detection of Ozone. <i>Analytical Chemistry</i> , 2013, 85, 3207-3212.	6.5	71
14	Facilitating Active Species Generation by Amorphous NiFe ₂ O ₄ Layer Formation on NiFe-LDH Nanoarray for Efficient Electrocatalytic Oxygen Evolution at Alkaline pH. <i>Chemistry - A European Journal</i> , 2017, 23, 11499-11503.	3.3	69
15	Wearable Circuits Sintered at Room Temperature Directly on the Skin Surface for Health Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45504-45515.	8.0	65
16	Synthesis and electrochemical applications of nitrogen-doped carbon nanomaterials. <i>Nanotechnology Reviews</i> , 2013, 2, 615-635.	5.8	58
17	Mass Transport Mechanism of Cu Species at the Metal/Dielectric Interfaces with a Graphene Barrier. <i>ACS Nano</i> , 2014, 8, 12601-12611.	14.6	55
18	Facile synthesis and electrochemiluminescence application of concave trisoctahedral Pd@Au core-shell nanocrystals bound by {331} high-index facets. <i>Chemical Communications</i> , 2011, 47, 10353.	4.1	54

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19	Ultrasensitive signal-on DNA biosensor based on nicking endonuclease assisted electrochemistry signal amplification. <i>Biosensors and Bioelectronics</i> , 2011, 29, 215-218.	10.1	43
20	Facile Synthesis of Porous PtM (M=Cu, Ni) Nanowires and Their Application as Efficient Electrocatalysts for Methanol Electrooxidation. <i>ChemCatChem</i> , 2014, 6, 2253-2257.	3.7	41
21	Co-based nanowire films as complementary hydrogen- and oxygen-evolving electrocatalysts in neutral electrolyte. <i>Catalysis Science and Technology</i> , 2017, 7, 2689-2694.	4.1	39
22	Seed-mediated growth of palladium nanocrystals: The effect of pseudo-halide thiocyanate ions. <i>Nanoscale</i> , 2011, 3, 678-682.	5.6	37
23	A novel fluorescent aptasensor based on single-walled carbon nanohorns. <i>Nanoscale</i> , 2011, 3, 4589.	5.6	36
24	Simultaneous voltammetric determination of dihydroxybenzene isomers at single-walled carbon nanohorn modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 388-394.	7.8	36
25	PtCu@O highly excavated octahedral nanostructures built with nanodendrites for superior alcohol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8568-8572.	10.3	32
26	π - π^* interactions as a versatile tool for controlling dynamic imine chemistry in both organic and aqueous media. <i>Chemical Science</i> , 2020, 11, 2707-2715.	7.4	29
27	Electrochemical Hydrazine Oxidation Catalyzed by Iron Phosphide Nanosheets Array toward Energy-Efficient Electrolytic Hydrogen Production from Water. <i>ChemistrySelect</i> , 2017, 2, 3401-3407.	1.5	28
28	Hierarchical concave layered triangular PtCu alloy nanostructures: rational integration of dendritic nanostructures for efficient formic acid electrooxidation. <i>Nanoscale</i> , 2018, 10, 9369-9375.	5.6	28
29	Fe ₂ @C Core-Shell Nanochains as Efficient Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2019, 2, 3889-3896.	5.0	28
30	Seed-mediated growth method for high-quality noble metal nanocrystals. <i>Science China Chemistry</i> , 2012, 55, 2311-2317.	8.2	26
31	Facet-dependent electrocatalytic activities of Pd nanocrystals toward the electro-oxidation of hydrazine. <i>Electrochemistry Communications</i> , 2013, 37, 57-60.	4.7	26
32	Synthesis and electrocatalytic properties of tetrahedral, polyhedral, and branched Pd@Au core-shell nanocrystals. <i>Chemical Communications</i> , 2013, 49, 8836.	4.1	23
33	One-pot synthesis of gold nanorods using binary surfactant systems with improved monodispersity, dimensional tunability and plasmon resonance scattering properties. <i>Nanotechnology</i> , 2014, 25, 125601.	2.6	23
34	Quantitative Reactivity Scales for Dynamic Covalent and Systems Chemistry. <i>Journal of the American Chemical Society</i> , 2016, 138, 381-389.	13.7	23
35	Synergistic Enhancement Effects of Carbon Quantum Dots and Au Nanoclusters for Cathodic ECL and Non-enzyme Detections of Glucose. <i>Electroanalysis</i> , 2020, 32, 1155-1159.	2.9	23
36	Heterogeneous Reconstitution of the PQQ-Dependent Glucose Dehydrogenase Immobilized on an Electrode: A Sensitive Strategy for PQQ Detection Down to Picomolar Levels. <i>Analytical Chemistry</i> , 2014, 86, 2257-2267.	6.5	21

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37	Modulating the oxophilic properties of inorganic nanomaterials for electrocatalysis of small carbonaceous molecules. <i>Nano Today</i> , 2019, 29, 100802.	11.9	20
38	Pd@Au core-shell nanocrystals with concave cubic shapes: kinetically controlled synthesis and electrocatalytic properties. <i>Faraday Discussions</i> , 2013, 164, 175.	3.2	18
39	Facile <i>in situ</i> growth of ZnO nanosheets standing on Ni foam as binder-free anodes for lithium ion batteries. <i>RSC Advances</i> , 2019, 9, 19253-19260.	3.6	17
40	Surface engineering of Rh-modified Pd nanocrystals by colloidal underpotential deposition for electrocatalytic methanol oxidation. <i>Nanoscale</i> , 2021, 13, 5284-5291.	5.6	13
41	Highly flexible electromagnetic interference shielding films based on ultrathin Ni/Ag composites on paper substrates. <i>Journal of Materials Science</i> , 2021, 56, 5570-5580.	3.7	13
42	Detection of Sodium Dehydroacetate by Tris(2,2'-bipyridine)ruthenium(II) Electrochemiluminescence. <i>ChemElectroChem</i> , 2017, 4, 1702-1707.	3.4	11
43	Fabrications of metal organic frameworks derived hierarchical porous carbon on carbon nanotubes as efficient bioanode catalysts of NAD ⁺ -dependent alcohol dehydrogenase. <i>Electrochimica Acta</i> , 2020, 340, 135958.	5.2	11
44	Azo-Group-Containing Organic Compounds as Electrode Materials in Full-Cell Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 5080-5085.	3.4	10
45	Kinetically controlled synthesis of large-scale morphology-tailored silver nanostructures at low temperature. <i>Nanoscale</i> , 2015, 7, 13420-13426.	5.6	9
46	Natural Compounds Gallic Acid Derivatives for Long-Life Li/Na Organic Batteries. <i>ChemElectroChem</i> , 2019, 6, 4765-4772.	3.4	9
47	New synthesis of gold nanocorals using a diazonium compound, and their application to an electrochemiluminescent assay of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2014, 181, 737-742.	5.0	8
48	Synthesis and Properties of Azide-Functionalized Ionic Liquids as Attractive Hypergolic Fuels. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2122-2128.	3.3	8
49	Redox Potentials and Electronic States of Iron Porphyrin IX Adsorbed on Single Crystal Gold Electrode Surfaces. <i>Langmuir</i> , 2018, 34, 3610-3618.	3.5	7
50	Dual roles of underpotential deposition in the synthesis of tetrahedral Pd-Ag alloy nanocrystals. <i>Chemical Communications</i> , 2020, 56, 14849-14852.	4.1	7
51	Voltammetry and molecular assembly of G-quadruplex DNAzyme on single-crystal Au(111)-electrode surfaces with hemin as an electrochemical intercalator. <i>Faraday Discussions</i> , 2016, 193, 99-112.	3.2	6
52	Low-temperature sintering of silver nanoparticles on paper by surface modification. <i>Nanotechnology</i> , 2019, 30, 505303.	2.6	5
53	New electrochemiluminescence catalyst: Cu ₂ O semiconductor crystal and the enhanced activity of octahedra synthesized by iodide ions coordination. <i>Materials Research Express</i> , 2017, 4, 115021.	1.6	3
54	Electrochemical single-molecule conductivity of duplex and quadruplex DNA. <i>Current Opinion in Electrochemistry</i> , 2017, 4, 166-174.	4.8	3

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55	Three new C23 steroids from the leaves and stems of <i>Nicandra physaloides</i> . <i>Steroids</i> , 2019, 150, 108424.	1.8	3
56	Sensitive Detection of Caffeic Acid and Rutin via the Enhanced Anodic Electrochemiluminescence Signal of Luminol. <i>Analytical Sciences</i> , 2020, 36, 311-316.	1.6	3
57	Metal single-atom-confined electrocatalysts to water oxidation: Development, innovation, and challenges. <i>Electrochemical Science Advances</i> , 2022, 2, e202100102.	2.8	3
58	Dynamic Covalent Reactions Controlled by Ring-Chain Tautomerism of 2-Formylbenzoic Acid. <i>European Journal of Organic Chemistry</i> , 2022, 2022, e202101461.	2.4	3
59	Self-assembly of nickel: from nanoparticles to foils with tunable magnetic properties. <i>CrystEngComm</i> , 2019, 21, 5317-5321.	2.6	2
60	Copper and iron mediated growth of surfactant-free PtCu and PtFe advanced electrocatalysts for water oxidation and oxygen reduction. <i>Electrochemical Science Advances</i> , 0, , e2100033.	2.8	1
61	Enhanced Power Density of Alcohol Biofuel Cell by Polymer-assisted Crosslinks of 3D Graphene on Carbon Paper as the Bioanode. <i>Electroanalysis</i> , 2022, 34, 640-644.	2.9	1
62	A Co ₃ O ₄ /C Composite for use as a High-Performance Lithium-Ion Battery Anode. <i>ChemistrySelect</i> , 2020, 5, 14613-14619.	1.5	0