Lian Ying Zhang

List of Publications by Year
in descending order

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72 papers	3,359 citations	117571 34 h-index	149623 56 g-index
72 all docs	72 docs citations	72 times ranked	3503 citing authors

#	Article	IF	Citations
1	mRNA-Initiated, Three-Dimensional DNA Amplifier Able to Function inside Living Cells. Journal of the American Chemical Society, 2018, 140, 258-263.	6.6	233
2	Engineering a 3D DNA-Logic Gate Nanomachine for Bispecific Recognition and Computing on Target Cell Surfaces. Journal of the American Chemical Society, 2018, 140, 9793-9796.	6.6	214
3	DNAâ€Functionalized Graphene to Guide Growth of Highly Active Pd Nanocrystals as Efficient Electrocatalyst for Direct Formic Acid Fuel Cells. Advanced Energy Materials, 2013, 3, 167-171.	10.2	193
4	Engineering of Bioinspired, Size-Controllable, Self-Degradable Cancer-Targeting DNA Nanoflowers via the Incorporation of an Artificial Sandwich Base. Journal of the American Chemical Society, 2019, 141, 4282-4290.	6.6	133
5	Formic acid-reduced ultrasmall Pd nanocrystals on graphene to provide superior electocatalytic activity and stability toward formic acid oxidation. Nano Energy, 2015, 11, 71-77.	8.2	131
6	A simple route to preparing Î³-Fe2O3/RGO composite electrode materials for lithium ion batteries. Journal of Materials Chemistry A, 2018, 6, 4048-4054.	5.2	106
7	Synthesis of hollow Co3O4 nanocrystals in situ anchored on holey graphene for high rate lithium-ion batteries. Carbon, 2020, 163, 137-144.	5.4	98
8	Synthesis of defect-rich palladium-tin alloy nanochain networks for formic acid oxidation. Journal of Colloid and Interface Science, 2018, 530, 189-195.	5.0	92
9	Tuning Pt-skinned PtAg nanotubes in nanoscales to efficiently modify electronic structure for boosting performance of methanol electrooxidation. Applied Catalysis B: Environmental, 2020, 265, 118606.	10.8	83
10	Perforated Pd Nanosheets with Crystalline/Amorphous Heterostructures as a Highly Active Robust Catalyst toward Formic Acid Oxidation. Small, 2019, 15, e1904245.	5.2	81
11	Layered and Heterostructured Pd/PdWCr Sheetâ€Assembled Nanoflowers as Highly Active and Stable Electrocatalysts for Formic Acid Oxidation. Advanced Functional Materials, 2020, 30, 2003933.	7.8	81
12	DNA-Based Dynamic Reaction Networks. Trends in Biochemical Sciences, 2018, 43, 547-560.	3.7	79
13	Î³-Fe2O3 nanocrystals-anchored macro/meso-porous graphene as a highly efficient adsorbent toward removal of methylene blue. Journal of Colloid and Interface Science, 2016, 476, 200-205.	5.0	72
14	DNA-based artificial molecular signaling system that mimics basic elements of reception and response. Nature Communications, 2020, 11, 978.	5.8	72
15	Twisted palladium-copper nanochains toward efficient electrocatalytic oxidation of formic acid. Journal of Colloid and Interface Science, 2019, 537, 366-374.	5.0	68
16	MicroRNA-Initiated and Intracellular Na⁺-Fueled DNAzyme Motor for Differentiating Molecular Subtypes of Nonsmall Cell Lung Cancer. Analytical Chemistry, 2020, 92, 7404-7408.	3.2	68
17	Smart Humanâ€Serumâ€Albuminâ€“As₂O₃ Nanodrug with Selfâ€Amplified Folate Receptorâ€Targeting Ability for Chronic Myeloid Leukemia Treatment. Angewandte Chemie - International Edition, 2017, 56, 10845-10849.	7.2	64
18	Facile fabrication of stable PdCu clusters uniformly decorated on graphene as an efficient electrocatalyst for formic acid oxidation. International Journal of Hydrogen Energy, 2019, 44, 2731-2740.	3.8	64

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19	Palladium-cobalt nanodots anchored on graphene: In-situ synthesis, and application as an anode catalyst for direct formic acid fuel cells. Applied Surface Science, 2019, 469, 305-311.	3.1	63
20	Controllable Synthesis of Webâ€Footed PdCu Nanosheets and Their Electrocatalytic Applications. Small, 2022, 18, e2107623.	5.2	62
21	One-pot synthesis of small and uniform Au@PtCu coreâ€“alloy shell nanoparticles as an efficient electrocatalyst for direct methanol fuel cells. Applied Catalysis B: Environmental, 2015, 174-175, 361-366.	10.8	57
22	Ultrafast synthesis of uniform 4â€“5 atoms-thin layered tremella-like Pd nanostructure with extremely large electrochemically active surface area for formic acid oxidation. Journal of Power Sources, 2020, 447, 227248.	4.0	56
23	Facile one-pot surfactant-free synthesis of uniform Pd₆Co nanocrystals on 3D graphene as an efficient electrocatalyst toward formic acid oxidation. Nanoscale, 2016, 8, 1905-1909.	2.8	52
24	DNAâ€Directed Growth of Pd Nanocrystals on Carbon Nanotubes towards Efficient Oxygen Reduction Reactions. Chemistry - A European Journal, 2012, 18, 15693-15698.	1.7	51
25	Aptamer-Modified Semiconductor Quantum Dots for Biosensing Applications. Sensors, 2017, 17, 1736.	2.1	51
26	Ir-Alloyed Ultrathin Ternary PdIrCu Nanosheet-Constructed Flower with Greatly Enhanced Catalytic Performance toward Formic Acid Electrooxidation. ACS Applied Materials & Interfaces, 2018, 10, 41293-41298.	4.0	48
27	Layered PdW nanosheet assemblies for alcohol electrooxidation. Applied Surface Science, 2021, 537, 147860.	3.1	44
28	Enhanced Targeted Gene Transduction: AAV2 Vectors Conjugated to Multiple Aptamers via Reducible Disulfide Linkages. Journal of the American Chemical Society, 2018, 140, 2-5.	6.6	43
29	Hierarchical zinc oxide/reduced graphene oxide composite: Preparation route, mechanism study and lithium ion storage. Journal of Colloid and Interface Science, 2019, 548, 233-243.	5.0	42
30	ZIF-67-Derived CoSe/NC Composites as Anode Materials for Lithium-Ion Batteries. Nanoscale Research Letters, 2019, 14, 358.	3.1	42
31	Hierarchical defective palladium-silver alloy nanosheets for ethanol electrooxidation. Journal of Colloid and Interface Science, 2021, 586, 200-207.	5.0	41
32	The ethanol oxidation reaction on bimetallic PdxAg1-x nanosheets in alkaline media and their mechanism study. Electrochimica Acta, 2021, 374, 137912.	2.6	40
33	Î³-Fe2O3 nanoparticles stabilized by holey reduced graphene oxide as a composite anode for lithium-ion batteries. Journal of Colloid and Interface Science, 2019, 552, 633-638.	5.0	38
34	Holey graphene confined hollow nickel oxide nanocrystals for lithium ion storage. Scripta Materialia, 2020, 178, 187-192.	2.6	35
35	Nakedâ€Eye Readout of Analyteâ€Induced NIR Fluorescence Responses by an Initiationâ€“Inputâ€“Transduction Nanoplatform. Angewandte Chemie - International Edition, 2020, 59, 695-699.	7.2	34
36	PdPb bimetallic nanowires as electrocatalysts for enhanced ethanol electrooxidation. Science China Materials, 2020, 63, 2040-2049.	3.5	34

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37	Synthesis of hollow cobalt phosphide nanocrystals with ultrathin shells anchored on reduced graphene oxide as an electrocatalyst toward hydrogen evolution. Applied Surface Science, 2020, 506, 144975.	3.1	33
38	Highly wrinkled palladium nanosheets as advanced electrocatalysts for the oxygen reduction reaction in acidic medium. Chemical Engineering Journal, 2022, 431, 133237.	6.6	33
39	Graphene decorated with Pd4Ir nanocrystals: Ultrasound-assisted synthesis, and application as a catalyst for oxidation of formic acid. Journal of Colloid and Interface Science, 2017, 505, 783-788.	5.0	28
40	Surface Nitridation of PdCu Nanosheets to Promote Charge Transfer and Suppress CO Poisoning toward Ethanol Electrooxidation. Advanced Materials Interfaces, 2022, 9, .	1.9	26
41	Ultrasmall and uniform Pt3Au clusters strongly suppress Ostwald ripening for efficient ethanol oxidation. Electrochemistry Communications, 2017, 84, 1-5.	2.3	24
42	Growing Platinum-Ruthenium-Tin ternary alloy nanoparticles on reduced graphene oxide for strong ligand effect toward enhanced ethanol oxidation reaction. Journal of Colloid and Interface Science, 2017, 506, 135-143.	5.0	24
43	Engineering Self-Calibrating Nanoprobes with Two-Photon-Activated Fluorescence Resonance Energy Transfer for Ratiometric Imaging of Biological Selenocysteine. ACS Applied Materials & Interfaces, 2019, 11, 17722-17729.	4.0	24
44	Directionally In Situ Selfâ€Assembled, Highâ€Density, Macroporeâ€Oriented, CoPâ€Impregnated, 3D Hierarchical Porous Carbon Sheet Nanostructure for Superior Electrocatalysis in the Hydrogen Evolution Reaction. Small, 2022, 18, e2103866.	5.2	24
45	Convenient Approaches to 4-Trifluoromethylpyridine. Organic Process Research and Development, 2001, 5, 531-534.	1.3	22
46	Fluorinated molecular beacons as functional DNA nanomolecules for cellular imaging. Chemical Science, 2017, 8, 7082-7086.	3.7	22
47	Galvanic exchange-formed ultra-low Pt loading on synthesized unique porous Ag-Pd nanotubes for increased active sites toward oxygen reduction reaction. Electrochimica Acta, 2018, 263, 209-216.	2.6	22
48	Holey PdPb nanosheet array: An advanced catalyst for methanol electrooxidation. International Journal of Hydrogen Energy, 2021, 46, 2236-2243.	3.8	22
49	Simple and effective synthesis of zinc ferrite nanoparticle immobilized by reduced graphene oxide as anode for lithium-ion batteries. Journal of Colloid and Interface Science, 2021, 584, 827-837.	5.0	22
50	Hollow cobalt oxide nanoparticles embedded porous reduced graphene oxide anode for high performance lithium ion batteries. Applied Surface Science, 2020, 508, 145311.	3.1	20
51	Controllable synthesis of zinc oxide nanoparticles embedded holey reduced graphene oxide nanocomposite as a high-performance anode for lithium-ion batteries. Powder Technology, 2020, 367, 774-781.	2.1	20
52	DNAâ€Promoted Ultrasmall Palladium Nanocrystals on Carbon Nanotubes: Towards Efficient Formic Acid Oxidation. ChemElectroChem, 2014, 1, 72-75.	1.7	19
53	Ternary PtPdCu Multicubes as a Highly Active and Durable Catalyst toward the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 1345-1349.	1.7	18
54	Carbon Monoxideâ€Templated Synthesis of Coralâ€Like Clean PtPd Nanochains as Efficient Oxygen Reduction Catalyst. ChemElectroChem, 2018, 5, 2403-2408.	1.7	18

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55	Simulation study of the spatter removal process and optimization design of gas flow system in laser powder bed fusion. Additive Manufacturing, 2020, 32, 101049.	1.7	18
56	DNA-supramolecule conjugates in theranostics. Theranostics, 2019, 9, 3262-3279.	4.6	16
57	Highly poison-resistant Pt nanocrystals on 3D graphene toward efficient methanol oxidation. RSC Advances, 2016, 6, 50726-50731.	1.7	15
58	Synthesis of Palladiumâ€“Tungsten Metallene-Constructed Sandwich-Like Nanosheets as Bifunctional Catalysts for Direct Formic Acid Fuel Cells. ACS Applied Energy Materials, 2021, 4, 12336-12344.	2.5	15
59	Dynamically self-assembled adenine-mediated synthesis of pristine graphene-supported clean Pd nanoparticles with superior electrocatalytic performance toward formic acid oxidation. Journal of Colloid and Interface Science, 2022, 613, 515-523.	5.0	15
60	An Efficient Electrocatalyst Derived from Bamboo Leaves for the Oxygen Reduction Reaction. ChemElectroChem, 2016, 3, 1466-1470.	1.7	14
61	Thermal treated 3D graphene as a highly efficient metal-free electrocatalyst toward oxygen reduction reaction. International Journal of Hydrogen Energy, 2017, 42, 28278-28286.	3.8	13
62	In situ self-assembled N-rich carbon on pristine graphene as a highly effective support and cocatalyst of short Pt nanoparticle chains for superior electrocatalytic activity toward methanol oxidation. Nanoscale, 2021, 13, 18332-18339.	2.8	12
63	Nakedâ€Eye Readout of Analyteâ€Induced NIR Fluorescence Responses by an Initiationâ€“Inputâ€“Transduction Nanoplatform. Angewandte Chemie, 2020, 132, 705-709.	1.6	11
64	Electrocatalysis of Pdâ€“Er bimetallic catalysts for methanol oxidation in alkaline media. Ionics, 2020, 26, 3459-3464.	1.2	9
65	ZnO nanowire arrays with in situ sequentially self-assembled vertically oriented CdS nanosheets as superior photoanodes for photoelectrochemical water splitting. Sustainable Energy and Fuels, 2022, 6, 3240-3248.	2.5	8
66	Tungsten-induced synthesis of defective palladiumâ€“copperâ€“tungsten trimetallic nanochains to highly enhance activity for formic acid electrooxidation. Materials Today Energy, 2020, 18, 100558.	2.5	7
67	Defective PdRh bimetallic nanocrystals enable enhanced methanol electrooxidation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 616, 126323.	2.3	7
68	Facile synthesis of heterophase sponge-like Pd toward enhanced formic acid oxidation. Electrochemistry Communications, 2021, 126, 107004.	2.3	7
69	Synthesis of hierarchical interconnected graphene oxide for enhanced oxygen reduction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125719.	2.3	4
70	Ion Exchange Synthesis of Cobalt Ion Modified Titanate Nanoarray as an Electrocatalyst toward Efficient Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 8946-8955.	2.5	2
71	Self-Assembling PDDA on Graphene to Surfactant-Free Synthesize Uniform and Ultra-Small Pd Nanocrystals by Direct CO Reduction for Efficient Catalyst Toward Formic Acid Oxidation. ChemistrySelect, 2017, 2, 3110-3116.	0.7	0
72	Directionally In Situ Selfâ€Assembled, Highâ€Density, Macroporeâ€Oriented, CoPâ€Impregnated, 3D Hierarchical Porous Carbon Sheet Nanostructure for Superior Electrocatalysis in the Hydrogen Evolution Reaction (Small 2/2022). Small, 2022, 18, .	5.2	0