

Lin Jiang

List of Publications by Year in descending order

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115
papers

8,963
citations

57719

44
h-index

40954

93
g-index

120
all docs

120
docs citations

120
times ranked

15544
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Layer MoS ₂ Phototransistors. ACS Nano, 2012, 6, 74-80.	7.3	3,103
2	ZnO cathode buffer layers for inverted polymer solar cells. Energy and Environmental Science, 2015, 8, 3442-3476.	15.6	279
3	Colorimetric Detection of Mercury Ions Based on Plasmonic Nanoparticles. Small, 2013, 9, 1467-1481.	5.2	255
4	High-Performance and Tailorable Pressure Sensor Based on Ultrathin Conductive Polymer Film. Small, 2014, 10, 1466-1472.	5.2	189
5	Facile Fabrication of High-Density Sub-10 nm Gaps from Au Nanoparticle Monolayers as Reproducible SERS Substrates. Advanced Functional Materials, 2016, 26, 8137-8145.	7.8	143
6	Optimizing the Volmer Step by Single-Layer Nickel Hydroxide Nanosheets in Hydrogen Evolution Reaction of Platinum. ACS Catalysis, 2015, 5, 3801-3806.	5.5	142
7	Enabling Light Work in Helical Self-Assembly for Dynamic Amplification of Chirality with Photoreversibility. Journal of the American Chemical Society, 2016, 138, 2219-2224.	6.6	142
8	3D Printing of Ultralight Biomimetic Hierarchical Graphene Materials with Exceptional Stiffness and Resilience. Advanced Materials, 2019, 31, e1902930.	11.1	130
9	Colloidal Synthesis and Applications of Plasmonic Metal Nanoparticles. Advanced Materials, 2016, 28, 10508-10517.	11.1	128
10	A highly active three-dimensional Z-scheme ZnO/Au/g-C ₃ N ₄ photocathode for efficient photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2020, 263, 118180.	10.8	126
11	A colorimetric logic gate based on free gold nanoparticles and the coordination strategy between melamine and mercury ions. Chemical Communications, 2013, 49, 4196-4198.	2.2	121
12	Platinum-nickel hydroxide nanocomposites for electrocatalytic reduction of water. Nano Energy, 2017, 31, 456-461.	8.2	119
13	Excellent electrical conductivity of the exfoliated and fluorinated hexagonal boron nitride nanosheets. Nanoscale Research Letters, 2013, 8, 49.	3.1	109
14	Scalable neutral H ₂ O ₂ electrosynthesis by platinum diphosphide nanocrystals by regulating oxygen reduction reaction pathways. Nature Communications, 2020, 11, 3928.	5.8	101
15	Plasmonic Enhanced Optoelectronic Devices. Plasmonics, 2014, 9, 859-866.	1.8	100
16	Spatially Confined Assembly of Nanoparticles. Accounts of Chemical Research, 2014, 47, 3009-3017.	7.6	98
17	Phase-controlled synthesis and gas-sensing properties of zinc stannate (ZnSnO ₃ and Zn ₂ SnO ₄) faceted solid and hollow microcrystals. CrystEngComm, 2012, 14, 2172.	1.3	89
18	Phase-controlled synthesis and photocatalytic properties of SnS, SnS ₂ and SnS/SnS ₂ heterostructure nanocrystals. Materials Research Bulletin, 2013, 48, 2325-2332.	2.7	87

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19	3D Anisotropic Au@Pt/Pd Hemispherical Nanostructures as Efficient Electrocatalysts for Methanol, Ethanol, and Formic Acid Oxidation Reaction. <i>Advanced Materials</i> , 2021, 33, e2100713.	11.1	87
20	3D Printed Mechanically Robust Graphene/CNT Electrodes for Highly Efficient Overall Water Splitting. <i>Advanced Materials</i> , 2020, 32, e1908201.	11.1	84
21	3D core/shell hierarchies of MnOOH ultrathin nanosheets grown on NiO nanosheet arrays for high-performance supercapacitors. <i>Nano Energy</i> , 2014, 4, 56-64.	8.2	83
22	Flexible Colorimetric Detection of Mercuric Ion by Simply Mixing Nanoparticles and Oligopeptides. <i>Small</i> , 2011, 7, 1407-1411.	5.2	82
23	One-Dimensional Arrangement of Gold Nanoparticles with Tunable Interparticle Distance. <i>Small</i> , 2009, 5, 2819-2822.	5.2	75
24	A Ni ₂ P nanocrystal cocatalyst enhanced TiO ₂ photoanode towards highly efficient photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2020, 385, 123878.	6.6	71
25	Three-Phase Electrolysis by Gold Nanoparticle on Hydrophobic Interface for Enhanced Electrochemical Nitrogen Reduction Reaction. <i>Advanced Science</i> , 2020, 7, 2002630.	5.6	69
26	Pd Nanoparticle-Decorated 3D-Printed Hierarchically Porous TiO ₂ Scaffolds for the Efficient Reduction of a Highly Concentrated 4-Nitrophenol Solution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28100-28109.	4.0	69
27	Ni(OH) ₂ /CoO/reduced graphene oxide composites with excellent electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 478-481.	5.2	68
28	<i>In situ</i> decorated Ni ₂ P nanocrystal co-catalysts on g-C ₃ N ₄ for efficient and stable photocatalytic hydrogen evolution <i>via</i> a facile co-heating method. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2995-3004.	5.2	68
29	Protein-Based Memristive Nanodevices. <i>Small</i> , 2011, 7, 3016-3020.	5.2	67
30	Nanoscaled Surface Patterning of Conducting Polymers. <i>Small</i> , 2011, 7, 1309-1321.	5.2	64
31	Tailoring the Salt Transport Flux of Solar Evaporators for a Highly Effective Salt-Resistant Desalination with High Productivity. <i>ACS Nano</i> , 2022, 16, 2511-2520.	7.3	64
32	Patterning of Plasmonic Nanoparticles into Multiplexed One-Dimensional Arrays Based on Spatially Modulated Electrostatic Potential. <i>ACS Nano</i> , 2011, 5, 8288-8294.	7.3	62
33	Visible Photoresponse of Single-Layer Graphene Decorated with TiO ₂ Nanoparticles. <i>Small</i> , 2013, 9, 2076-2080.	5.2	58
34	Programmable Negative Differential Resistance Effects Based on Self-Assembled Au@PPy Core-Shell Nanoparticle Arrays. <i>Advanced Materials</i> , 2018, 30, e1802731.	11.1	58
35	A self-supporting bimetallic Au@Pt core-shell nanoparticle electrocatalyst for the synergistic enhancement of methanol oxidation. <i>Scientific Reports</i> , 2017, 7, 6347.	1.6	56
36	Tunable random lasing behavior in plasmonic nanostructures. <i>Nano Convergence</i> , 2017, 4, 1.	6.3	54

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37	Beyond Skin Pressure Sensing: 3D Printed Laminated Graphene Pressure Sensing Material Combines Extremely Low Detection Limits with Wide Detection Range. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	54
38	Colorimetric Chemodosimeter Based on Diazonium-Gold Nanoparticle Complexes for Sulfite Ion Detection in Solution. <i>Small</i> , 2012, 8, 3412-3416.	5.2	53
39	Synergistic Modulation of Surface Interaction to Assemble Metal Nanoparticles into Two-Dimensional Arrays with Tunable Plasmonic Properties. <i>Small</i> , 2014, 10, 609-616.	5.2	51
40	Towards active plasmonic response devices. <i>Nano Research</i> , 2015, 8, 406-417.	5.8	51
41	High-Performance and Stable Organic Transistors and Circuits with Patterned Polypyrrole Electrodes. <i>Advanced Materials</i> , 2012, 24, 2159-2164.	11.1	50
42	Free-standing one-dimensional plasmonic nanostructures. <i>Nanoscale</i> , 2012, 4, 66-75.	2.8	46
43	Neutral Mononuclear Copper(I) Complexes: Synthesis, Crystal Structures, and Photophysical Properties. <i>Inorganic Chemistry</i> , 2016, 55, 5845-5852.	1.9	45
44	Enhanced Photoresponse of Conductive Polymer Nanowires Embedded with Au Nanoparticles. <i>Advanced Materials</i> , 2016, 28, 2978-2982.	11.1	45
45	Synthesis of Fivefold Stellate Polyhedral Gold Nanoparticles with {110} Facets via a Seed-Mediated Growth Method. <i>Small</i> , 2013, 9, 705-710.	5.2	43
46	Printed Honeycomb-Structured Reduced Graphene Oxide Film for Efficient and Continuous Evaporation-Driven Electricity Generation from Salt Solution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26989-26997.	4.0	42
47	pH-dependent aggregation of citrate-capped Au nanoparticles induced by Cu ²⁺ ions: The competition effect of hydroxyl groups with the carboxyl groups. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 346, 216-220.	2.3	38
48	Uniform and reproducible plasmon-enhanced fluorescence substrate based on PMMA-coated, large-area Au@Ag nanorod arrays. <i>Nano Research</i> , 2018, 11, 953-965.	5.8	38
49	Tape-Imprinted Hierarchical Lotus Seedpod-Like Arrays for Extraordinary Surface-Enhanced Raman Spectroscopy. <i>Small</i> , 2019, 15, e1804527.	5.2	38
50	pH-Dependent Aggregation of Histidine-Functionalized Au Nanoparticles Induced by Fe ³⁺ Ions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3267-3271.	1.5	37
51	Enhanced Electrical Conductivity of Individual Conducting Polymer Nanobelts. <i>Small</i> , 2011, 7, 1949-1953.	5.2	37
52	Semiconductive, One-Dimensional, Self-Assembled Nanostructures Based on Oligopeptides with π -Conjugated Segments. <i>Chemistry - A European Journal</i> , 2011, 17, 4746-4749.	1.7	35
53	Coral-like PdCu Alloy Nanoparticles Act as Stable Electrocatalysts for Highly Efficient Formic Acid Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15354-15360.	3.2	34
54	Spatial Distribution Recast for Organic Bulk Heterojunctions for High-Performance All-Inorganic Perovskite/Organic Integrated Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000851.	10.2	34

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55	Wood-Inspired Binder Enabled Vertical 3D Printing of $g-C_3N_4/CNT$ Arrays for Highly Efficient Photoelectrochemical Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2021, 31, 2105045.	7.8	34
56	pH-dependent response of citrate capped Au nanoparticle to Pb^{2+} ion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 325, 194-197.	2.3	32
57	Heterostructures of vertical, aligned and dense SnO_2 nanorods on graphene sheets: in situ TEM measured mechanical, electrical and field emission properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 19196.	6.7	29
58	Enabling low amounts of $YAG:Ce^{3+}$ to convert blue into white light with plasmonic Au nanoparticles. <i>Nanoscale</i> , 2015, 7, 10350-10356.	2.8	28
59	3D-printed endoplasmic reticulum rGO microstructure based self-powered triboelectric pressure sensor. <i>Chemical Engineering Journal</i> , 2022, 445, 136821.	6.6	28
60	Rational Design of Plasmonic Metal Nanostructures for Solar Energy Conversion. <i>CCS Chemistry</i> , 2022, 4, 1153-1168.	4.6	27
61	3D Printing of Powder-Based Inks into Functional Hierarchical Porous TiO_2 Materials. <i>Advanced Engineering Materials</i> , 2020, 22, 1901088.	1.6	26
62	Scalable Fabrication of Multiplexed Plasmonic Nanoparticle Structures Based on AFM Lithography. <i>Small</i> , 2016, 12, 5818-5825.	5.2	25
63	A conductive polyacrylamide hydrogel enabled by dispersion-enhanced MXene@chitosan assembly for highly stretchable and sensitive wearable skin. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8862-8870.	2.9	25
64	The Electrode's Effect on the Stability of Organic Transistors and Circuits. <i>Advanced Materials</i> , 2012, 24, 3053-3058.	11.1	24
65	Chemically tunable photoresponse of ultrathin polypyrrole. <i>Nanoscale</i> , 2017, 9, 7760-7764.	2.8	24
66	Multishelled Hollow Structures of Yttrium Oxide for the Highly Selective and Ultrasensitive Detection of Methanol. <i>Small</i> , 2019, 15, e1804688.	5.2	22
67	Coordination competition-driven synthesis of triple-shell hollow $\gamma-Fe_2O_3$ microspheres for lithium ion batteries. <i>Electrochimica Acta</i> , 2019, 306, 151-158.	2.6	22
68	150Ånm – 200Ånm Cross-Point Hexagonal Boron Nitride-Based Memristors. <i>Advanced Electronic Materials</i> , 2020, 6, 1900115.	2.6	22
69	A method for joining individual graphene sheets. <i>Carbon</i> , 2012, 50, 4965-4972.	5.4	21
70	Lasing behavior of surface functionalized carbon quantum dot/RhB composites. <i>Nanoscale</i> , 2017, 9, 5049-5054.	2.8	21
71	Localized surface plasmon resonance enhanced electrochemical nitrogen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120808.	10.8	20
72	Micro Organic Light Emitting Diode Arrays by Patterned Growth on Structured Polypyrrole. <i>Advanced Optical Materials</i> , 2020, 8, 1902105.	3.6	19

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73	In-situ phase transition induced nanoheterostructure for overall water splitting. <i>Chemical Engineering Journal</i> , 2021, 409, 128156.	6.6	19
74	Engineering Surface Plasmons in Metal/Nonmetal Structures for Highly Desirable Plasmonic Photodetectors. , 2022, 4, 343-355.		19
75	Buffer-Layer-Assisted Epitaxial Growth of Perfectly Aligned Oxide Nanorod Arrays in Solution. <i>Crystal Growth and Design</i> , 2011, 11, 4885-4891.	1.4	17
76	Morphological effects on the selectivity of intramolecular versus intermolecular catalytic reaction on Au nanoparticles. <i>Nanoscale</i> , 2017, 9, 7727-7733.	2.8	17
77	Ultrahigh Field Enhancement Optimization Versus Rabi Splitting Investigated Using Au Nano-Bipyramids on Metal Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12984-12996.	1.5	17
78	Vertical 3D Printed Forest-Inspired Hierarchical Plasmonic Superstructure for Photocatalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2100768.	7.8	17
79	In Situ Growth of Co ₂ P Nanocrystal on g-C ₃ N ₄ for Efficient and Stable Photocatalytic Hydrogen Evolution. <i>Energy & Fuels</i> , 2021, 35, 1859-1865.	2.5	16
80	A large scaled-up monocrystalline 3R MoS ₂ electrocatalyst for efficient nitrogen reduction reactions. <i>New Journal of Chemistry</i> , 2021, 45, 2488-2495.	1.4	15
81	Highly Sensitive Electro-Plasmonic Switches Based on Fivefold Stellate Polyhedral Gold Nanoparticles. <i>Small</i> , 2015, 11, 5395-5401.	5.2	14
82	Resonant modes of reflecting gratings engineered for multimodal sensing. <i>APL Photonics</i> , 2020, 5, 076108.	3.0	14
83	Multiplexed Assembly of Plasmonic Nanostructures Through Charge Inversion on Substrate for Surface Encoding. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6176-6182.	4.0	14
84	Oxygen-Tolerant RAFT Polymerization Catalyzed by a Recyclable Biomimetic Mineralization Enhanced Biological Cascade System. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100559.	2.0	13
85	Spectral plasmonic effect in the nano-cavity of dye-doped nanosphere-based photonic crystals. <i>Nanotechnology</i> , 2016, 27, 165703.	1.3	12
86	Modulating the Spatial Electrostatic Potential for 1D Colloidal Nanoparticles Assembly. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700505.	1.9	12
87	Nanostructured hexagonal ReO ₃ with oxygen vacancies for efficient electrocatalytic hydrogen generation. <i>Nanotechnology</i> , 2019, 30, 355701.	1.3	12
88	Lithographical Fabrication of Organic Single-Crystal Arrays by Area-Selective Growth and Solvent Vapor Annealing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48854-48860.	4.0	12
89	Plasmonic Nanoparticle Film for Low-Power NIR-Enhanced Photocatalytic Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16753-16761.	4.0	12
90	Preparation of titanium dioxide and barium titanate nanothick film by Langmuir-Blodgett technique. <i>Thin Solid Films</i> , 2000, 379, 218-223.	0.8	11

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91	One-step integration of a multiple-morphology gold nanoparticle array on a TiO ₂ film via a facile sonochemical method for highly efficient organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8419-8429.	5.2	11
92	Interface Engineering of Colloidal CdSe Quantum Dot Thin Films as Acid-Stable Photocathodes for Solar-Driven Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17129-17139.	4.0	11
93	Plasmonic Metal Nanostructures as Efficient Light Absorbers for Solar Water Splitting. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100092.	2.8	11
94	Chemical Reaction on a Solid Surface with Nanoconfined Geometry. <i>Small</i> , 2012, 8, 333-335.	5.2	10
95	Plasmonic nanoparticle-film-assisted photoelectrochemical catalysis across the entire visible-NIR region. <i>Nanoscale</i> , 2019, 11, 23058-23064.	2.8	10
96	Fabrication of tunable aluminum nanodisk arrays via a self-assembly nanoparticle template method and their applications for performance enhancement in organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3649-3658.	5.2	9
97	Positioning growth of NPB crystalline nanowires on the PTCDA nanocrystal template. <i>Nanoscale</i> , 2018, 10, 10262-10267.	2.8	9
98	PdAg Nanoparticles with Different Sizes: Facile One-Step Synthesis and High Electrocatalytic Activity for Formic Acid Oxidation. <i>Chemistry - an Asian Journal</i> , 2021, 16, 34-38.	1.7	9
99	The coordination sites of phosphorothioate OligoG10 with Cd ²⁺ and CdS nanoparticles. <i>New Journal of Chemistry</i> , 2003, 27, 823-826.	1.4	8
100	High-Yield Synthesis of Au@Ag Right Bipyramids and Self-Assembly into Four-Leaf-Clover-Like Structures. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700114.	1.2	8
101	Assembly of Au Nanoparticles with Anisotropic Optical Property Directed by 2 ⁻ -Phosphorothioate Oligo-DNA. <i>Chinese Journal of Chemistry</i> , 2005, 23, 1143-1145.	2.6	5
102	Self-generating nanogaps for highly effective surface-enhanced Raman spectroscopy. <i>Nano Research</i> , 2022, 15, 3496-3503.	5.8	5
103	A facile method for fabrication of highly integrated organic field-effect transistors on photoresist-unwettable insulators with remarkable stability. <i>Organic Electronics</i> , 2016, 34, 104-110.	1.4	4
104	Growing In-Plane Multiplex Plasmonic Arrays for Synergistic Enhanced Photocurrent Response. <i>Advanced Materials Interfaces</i> , 2020, 7, 1900966.	1.9	4
105	Facile fabrication of a single-particle platform with high throughput via substrate surface potential regulated large-spacing nanoparticle assembly. <i>Nano Research</i> , 0, , 1.	5.8	4
106	Facile and Surfactant-Free Routed Spherical Au@Pt Core-Shell-Satellite Nanoparticles as Highly Efficient and Stable Electrocatalyst for Methanol Oxidation. <i>Energy Technology</i> , 2022, 10, .	1.8	4
107	Conductance measurements of individual polypyrrole nanobelts. <i>Nanoscale</i> , 2015, 7, 2301-2305.	2.8	3
108	Stamp recyclable contact printing of liquid droplet matrix on various surfaces. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10971-10975.	2.7	3

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109	Double-sided asymmetric surface modification of ZnO interfacial layer to enhance performance in organic solar cells. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	3
110	Strategies for High Resolution Patterning of Conducting Polymers. , 0, , .		2
111	Quasi-3-D Au mushrooms with programmable morphology for high-capacity flexible plasmonic encoding. <i>Science China Materials</i> , 2022, 65, 2227-2234.	3.5	2
112	Cadmium ion induced bending of phosphorothioate oligonucleotide G10. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 632-634.	1.3	1
113	Enabling low amounts of YAG:Ce ³⁺ to convert blue into white light with plasmonic Au nanoparticles. , 2015, , .		1
114	DNA-Templated Formation of Needle-like CdS Nanoparticles in Langmuir-Blodgett Film. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 371, 49-52.	0.3	0
115	Conversion Between Two-Dimensional Square and Hexagonal Close-Packed Architectures in Aggregates of Au Nanoparticles Mediated by Bending DNA Linkers. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2055-2060.	0.9	0