

# Jia Liu

## List of Publications by Year in descending order

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80  
papers

4,763  
citations

136740

32  
h-index

98622

67  
g-index

81  
all docs

81  
docs citations

81  
times ranked

6113  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bismuth Single Atoms Resulting from Transformation of Metal-Organic Frameworks and Their Use as Electrocatalysts for CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 16569-16573.	6.6	501
2	Multiscale Assembly of Grape-Like Ferroferric Oxide and Carbon Nanotubes: A Smart Absorber Prototype Varying Temperature to Tune Intensities. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 19408-19415.	4.0	330
3	Electromagnetic Property and Tunable Microwave Absorption of 3D Nets from Nickel Chains at Elevated Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22615-22622.	4.0	307
4	Enhanced wave absorption of nanocomposites based on the synthesized complex symmetrical CuS nanostructure and poly(vinylidene fluoride). <i>Journal of Materials Chemistry A</i> , 2013, 1, 4685.	5.2	264
5	Controllable fabrication of mono-dispersed RGO-hematite nanocomposites and their enhanced wave absorption properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5996.	5.2	251
6	Enhanced permittivity and multi-region microwave absorption of nanoneedle-like ZnO in the X-band at elevated temperature. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4670-4677.	2.7	224
7	Nanointerface Chemistry: Lattice-Mismatch-Directed Synthesis and Application of Hybrid Nanocrystals. <i>Chemical Reviews</i> , 2020, 120, 2123-2170.	23.0	206
8	Catalytic nanoarchitectonics for environmentally compatible energy generation. <i>Materials Today</i> , 2016, 19, 12-18.	8.3	163
9	Facile fabrication of ultrathin graphene papers for effective electromagnetic shielding. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5057-5064.	2.7	159
10	Visually resolving the direct Z-scheme heterojunction in CdS@ZnIn <sub>2</sub> S <sub>4</sub> hollow cubes for photocatalytic evolution of H <sub>2</sub> and H <sub>2</sub> O <sub>2</sub> from pure water. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120213.	10.8	123
11	Metal@semiconductor core-shell nanocrystals with atomically organized interfaces for efficient hot electron-mediated photocatalysis. <i>Nano Energy</i> , 2018, 48, 44-52.	8.2	118
12	Polystyrene sulphonic acid resins with enhanced acid strength via macromolecular self-assembly within confined nanospace. <i>Nature Communications</i> , 2014, 5, 3170.	5.8	114
13	Nature-Inspired Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Nanosheets-Formed Three-Dimensional Microflowers Architecture as a High-Performance Anode Material for Rechargeable Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11669-11677.	4.0	103
14	Improved dielectric properties and highly efficient and broadened bandwidth electromagnetic attenuation of thickness-decreased carbon nanosheet/wax composites. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1846.	2.7	98
15	Two-Dimensional All-in-One Sulfide Monolayers Driving Photocatalytic Overall Water Splitting. <i>Nano Letters</i> , 2021, 21, 6228-6236.	4.5	88
16	Efficient Plasmonic Au/CdSe Nanodumbbell for Photoelectrochemical Hydrogen Generation beyond Visible Region. <i>Advanced Energy Materials</i> , 2019, 9, 1803889.	10.2	85
17	Coaxial multi-interface hollow Ni-Al <sub>2</sub> O <sub>3</sub> -ZnO nanowires tailored by atomic layer deposition for selective-frequency absorptions. <i>Nano Research</i> , 2017, 10, 1595-1607.	5.8	82
18	Cation/Anion Exchange Reactions toward the Syntheses of Upgraded Nanostructures: Principles and Applications. <i>Matter</i> , 2020, 2, 554-586.	5.0	81

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19	Enzyme confined in silica-based nanocages for biocatalysis in a Pickering emulsion. <i>Chemical Communications</i> , 2013, 49, 9558.	2.2	66
20	Recent advances on support materials for lipase immobilization and applicability as biocatalysts in inhibitors screening methods—A review. <i>Analytica Chimica Acta</i> , 2020, 1101, 9-22.	2.6	66
21	Hydrothermal Cation Exchange Enabled Gradual Evolution of Au@ZnS@AgAuS Yolk@Shell Nanocrystals and Their Visible Light Photocatalytic Applications. <i>Advanced Science</i> , 2018, 5, 1700376.	5.6	64
22	Hydrophilic Doped Quantum Dots and Their Inkjet-Printed Patterns for Dual Mode Anticounterfeiting by Reversible Cation Exchange Mechanism. <i>Advanced Functional Materials</i> , 2019, 29, 1808762.	7.8	63
23	Ultrathin single-crystalline TiO <sub>2</sub> nanosheets anchored on graphene to be hybrid network for high-rate and long cycle-life sodium battery electrode application. <i>Journal of Power Sources</i> , 2017, 342, 405-413.	4.0	60
24	Heterovalent Doping in Colloidal Semiconductor Nanocrystals: Cation-Exchange-Enabled New Accesses to Tuning Dopant Luminescence and Electronic Impurities. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4943-4953.	2.1	59
25	Highly Selective Photoreduction of CO <sub>2</sub> with Suppressing H <sub>2</sub> Evolution by Plasmonic Au/CdSe@Cu <sub>2</sub> O Hierarchical Nanostructures under Visible Light. <i>Small</i> , 2020, 16, e2000426.	5.2	53
26	Sintering-Resistant Nanoparticles in Wide-Mouthed Compartments for Sustained Catalytic Performance. <i>Scientific Reports</i> , 2017, 7, 41773.	1.6	44
27	Improved Catalytic Performance of Lipase Accommodated in the Mesoporous Silicas with Polymer-Modified Microenvironment. <i>Langmuir</i> , 2012, 28, 9788-9796.	1.6	42
28	Electronic doping-enabled transition from n- to p-type conductivity over Au@CdS core@shell nanocrystals toward unassisted photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23038-23045.	5.2	42
29	Antibacterial Effect of Silver-Incorporated Flake-Shell Nanoparticles under Dual-Modality. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18922-18929.	4.0	40
30	Evolution of Hollow CuInS <sub>2</sub> Nanododecahedrons via Kirkendall Effect Driven by Cation Exchange for Efficient Solar Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27170-27177.	4.0	40
31	Au@HgxCd <sub>1-x</sub> Te core@shell nanorods by sequential aqueous cation exchange for near-infrared photodetectors. <i>Nano Energy</i> , 2019, 57, 57-65.	8.2	38
32	Towards efficient chemical synthesis via engineering enzyme catalysis in biomimetic nanoreactors. <i>Chemical Communications</i> , 2015, 51, 13731-13739.	2.2	36
33	Controlled Synthesis and Flexible Self-Assembly of Monodisperse Au@Semiconductor Core/Shell Hetero-Nanocrystals into Diverse Superstructures. <i>Chemistry of Materials</i> , 2017, 29, 2355-2363.	3.2	33
34	Versatile synthesis of yolk/shell hybrid nanocrystals via ion-exchange reactions for novel metal/semiconductor and semiconductor/semiconductor conformations. <i>Nano Research</i> , 2017, 10, 2977-2987.	5.8	32
35	Fabrication of core@shell structured mesoporous silica nanospheres with dually oriented mesochannels through pore engineering. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8118-8125.	5.2	30
36	Enhanced thermostability of enzymes accommodated in thermo-responsive nanopores. <i>Chemical Science</i> , 2012, 3, 3398.	3.7	29

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37	Enzyme Entrapped in Polymer-Modified Nanopores: The Effects of Macromolecular Crowding and Surface Hydrophobicity. <i>Chemistry - A European Journal</i> , 2013, 19, 2711-2719.	1.7	29
38	Domain Structure and Enhanced Electrical Properties in Sodium Bismuth Titanate Ceramics Sintered from Crystals with Different Morphologies. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2316-2326.	1.9	29
39	Semiconductor Nanocrystal Engineering by Applying Thiol- and Solvent-Coordinated Cation Exchange Kinetics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4852-4857.	7.2	29
40	A flexible conductive film prepared by the oriented stacking of Ag and Au/Ag alloy nanoplates and its chemically roughened surface for explosive SERS detection and cell adhesion. <i>RSC Advances</i> , 2017, 7, 7073-7078.	1.7	28
41	Simultaneous harnessing of hot electrons and hot holes achieved via n-metal-p Janus plasmonic heteronanocrystals. <i>Nano Energy</i> , 2022, 98, 107217.	8.2	26
42	From core-shell to yolk-shell: Keeping the intimately contacted interface for plasmonic metal@semiconductor nanorods toward enhanced near-infrared photoelectrochemical performance. <i>Nano Research</i> , 2020, 13, 1162-1170.	5.8	25
43	Cu x O self-assembled mesoporous microspheres with effective surface oxygen vacancy and their room temperature NO <sub>2</sub> gas sensing performance. <i>Science China Materials</i> , 2018, 61, 1085-1094.	3.5	24
44	Atomically thin PdSeO <sub>3</sub> nanosheets: a promising 2D photocatalyst produced by quaternary ammonium intercalation and exfoliation. <i>Chemical Communications</i> , 2020, 56, 5504-5507.	2.2	23
45	Good Dispersion of Large-Stokes-Shift Heterovalent-Doped CdX Quantum Dots into Bulk PMMA Matrix and Their Optical Properties Characterization. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6152-6159.	1.5	22
46	Compressive surface strained atomic-layer Cu <sub>2</sub> O on Cu@Ag nanoparticles. <i>Nano Research</i> , 2019, 12, 1187-1192.	5.8	21
47	Poros platinum-silver bimetallic alloys: surface composition and strain tunability toward enhanced electrocatalysis. <i>Nanoscale</i> , 2018, 10, 21703-21711.	2.8	20
48	Metal@I <sub>2</sub> -IV <sub>4</sub> core-shell nanocrystals: controlled synthesis by aqueous cation exchange for efficient photoelectrochemical hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11898-11908.	5.2	20
49	From Indium-Doped Ag <sub>2</sub> S to AgInS <sub>2</sub> Nanocrystals: Low-Temperature In Situ Conversion of Colloidal Ag <sub>2</sub> S Nanoparticles and Their NIR Fluorescence. <i>Chemistry - A European Journal</i> , 2018, 24, 13676-13680.	1.7	20
50	Phosphine ligand-mediated kinetics manipulation of aqueous cation exchange: a case study on the synthesis of Au@SnS <sub>x</sub> core-shell nanocrystals for photoelectrochemical water splitting. <i>Chemical Communications</i> , 2018, 54, 9993-9996.	2.2	19
51	Unique Cation Exchange in Nanocrystal Matrix via Surface Vacancy Engineering Overcoming Chemical Kinetic Energy Barriers. <i>CheM</i> , 2020, 6, 3086-3099.	5.8	18
52	High-Performance Quantum Dots with Synergistic Doping and Oxide Shell Protection Synthesized by Cation Exchange Conversion of Ternary-Composition Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2606-2615.	2.1	17
53	Hollow anisotropic semiconductor nanoprisms with highly crystalline frameworks for high-efficiency photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8061-8072.	5.2	16
54	Vacuum-tuned-atmosphere induced assembly of Au@Ag core/shell nanocubes into multi-dimensional superstructures and the ultrasensitive IAPP proteins SERS detection. <i>Nano Research</i> , 2019, 12, 1375-1379.	5.8	16

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55	An immobilization enzyme for screening lipase inhibitors from Tibetan medicines. <i>Journal of Chromatography A</i> , 2020, 1615, 460711.	1.8	16
56	Ru-Co-Mn trimetallic alloy nanocatalyst driving bifunctional redox electrocatalysis. <i>Science China Materials</i> , 2022, 65, 131-138.	3.5	16
57	Hierarchical Self-Assembly of Cu <sub>7</sub> Te <sub>5</sub> Nanorods into Superstructures with Enhanced SERS Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35426-35434.	4.0	15
58	Construction of Plasmonic Metal@Semiconductor Core-Shell Photocatalysts: From Epitaxial to Non-epitaxial Strategies. <i>Small Structures</i> , 2022, 3, .	6.9	13
59	Surface passivation enabled-structural engineering of III-VI <sub>2</sub> nanocrystal photocatalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9951-9962.	5.2	12
60	Shell Thickness Dependence of the Plasmon-Induced Hot-Electron Injection Process in Au@CdS Core-Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19906-19913.	1.5	12
61	Efficient Co <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> catalyst for the Baeyer-Villiger oxidation of cyclohexanone. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014, 112, 159-171.	0.8	11
62	Colloid-Interface-Assisted Laser Irradiation of Nanocrystals Superlattices to be Scalable Plasmonic Superstructures with Novel Activities. <i>Small</i> , 2018, 14, e1703501.	5.2	10
63	Micro-scale 2D quasi-nanosheets formed by 0D nanocrystals: from single to multicomponent building blocks. <i>Science China Materials</i> , 2020, 63, 1265-1271.	3.5	10
64	Lipase immobilization on magnetic cellulose microspheres for rapid screening inhibitors from traditional herbal medicines. <i>Talanta</i> , 2021, 231, 122374.	2.9	10
65	Cu nanocrystal enhancement of C <sub>3</sub> N <sub>4</sub> /Cu hetero-structures and new applications in photo-electronic catalysis: hydrazine oxidation and redox reactions of organic molecules. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2420-2424.	3.0	9
66	Defect Engineering in 2D Photocatalytic Materials for CO <sub>2</sub> Reduction. <i>ChemNanoMat</i> , 2021, 7, 737-747.	1.5	9
67	Semiconductor Nanocrystal Engineering by Applying Thiol- and Solvent-Coordinated Cation Exchange Kinetics. <i>Angewandte Chemie</i> , 2019, 131, 4906-4911.	1.6	8
68	Stable quantum dots/polymer matrix and their versatile 3D printing frameworks. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7194-7199.	2.7	8
69	A telluride shell on plasmonic Au nanoparticles: amorphous/crystalline phase and shape evolution engineering via aqueous cation exchange. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4571-4578.	3.2	8
70	Perovskite nanocrystals: across-dimensional attachment, film-scale assembly on a flexible substrate and their fluorescence properties. <i>Nanotechnology</i> , 2018, 29, 125606.	1.3	6
71	Nanocluster-Mediated Synthesis of Diverse ZnTe Nanostructures: from Nanocrystals to 1D Nanobelts. <i>Chemistry - A European Journal</i> , 2018, 24, 2999-3004.	1.7	5
72	Near-Infrared Luminescent Ternary Ag <sub>3</sub> SbS <sub>3</sub> Quantum Dots by in situ Conversion of Ag Nanocrystals with Sb(C <sub>9</sub> H <sub>19</sub> COO) <sub>3</sub> . <i>Chemistry - A European Journal</i> , 2018, 24, 18643-18647.	1.7	5

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73	High Pressure Induced in Situ Solid-State Phase Transformation of Nonepitaxial Grown Metal@Semiconductor Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6544-6549.	2.1	5
74	Doping transition metal in PdSeO <sub>3</sub> atomic layers by aqueous cation exchange: A new doping protocol for a new 2D photocatalyst. <i>Chinese Chemical Letters</i> , 2022, 33, 3739-3744.	4.8	5
75	Synergistically Modulating Geometry and Electronic Structures of a Chalcogenide Photocatalyst via an Ion-Exchange Strategy. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 969-976.	2.1	5
76	Model Iron Phosphate Catalysts for the Oxy-bromination of Methane. <i>Catalysis Letters</i> , 2014, 144, 1384-1392.	1.4	4
77	Assembly-promoted photocatalysis: Three-dimensional assembly of CdS x Se $1\hat{x}$ ( $x\hat{=}\hat{0}\hat{\epsilon}1$ ) quantum dots into nanospheres with enhanced photocatalytic performance. <i>Journal of Materiomics</i> , 2017, 3, 63-70.	2.8	3
78	Two-dimensional CdX (X = Se, Te) nanosheets: controlled synthesis and their photoluminescence properties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13849-13858.	2.7	3
79	Hollow urchin-shaped manganese dioxide microspheres immobilized acetylcholinesterase for rapid screening inhibitors from traditional herbal medicines. <i>Journal of Chromatography A</i> , 2022, 1665, 462824.	1.8	3
80	Wet-Phase Synthesis of Typical Magnetic Nanoparticles with Controlled Morphologies. , 2017, , 291-326.		1