

Jia Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

3,416
citations

28
h-index

57
g-index

81
ext. papers

4,112
ext. citations

9.7
avg, IF

5.69
L-index

#	Paper	IF	Citations
80	Synergistically Modulating Geometry and Electronic Structures of a Chalcogenide Photocatalyst via an Ion-Exchange Strategy.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 969-976	6.4	2
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	4.5	0
78	Simultaneous harnessing of hot electrons and hot holes achieved via n-metal-p Janus plasmonic heteronanocrystals. <i>Nano Energy</i> , 2022 , 107217	17.1	5
77	Doping transition metal in PdSeO ₃ atomic layers by aqueous cation exchange: A new doping protocol for a new 2D photocatalyst. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	2
76	Defect Engineering in 2D Photocatalytic Materials for CO ₂ Reduction. <i>ChemNanoMat</i> , 2021 , 7, 737-747	3.5	3
75	Stable quantum dots/polymer matrix and their versatile 3D printing frameworks. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 7194-7199	7.1	3
74	Two-Dimensional All-in-One Sulfide Monolayers Driving Photocatalytic Overall Water Splitting. <i>Nano Letters</i> , 2021 , 21, 6228-6236	11.5	21
73	Lipase immobilization on magnetic cellulose microspheres for rapid screening inhibitors from traditional herbal medicines. <i>Talanta</i> , 2021 , 231, 122374	6.2	2
72	Shell Thickness Dependence of the Plasmon-Induced Hot-Electron Injection Process in Au@CdS CoreShell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19906-19913	3.8	3
71	Visually resolving the direct Z-scheme heterojunction in CdS@ZnIn ₂ S ₄ hollow cubes for photocatalytic evolution of H ₂ and H ₂ O ₂ from pure water. <i>Applied Catalysis B: Environmental</i> , 2021 , 293, 120213	21.8	36
70	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	7.8	3
69	Surface passivation enabled-structural engineering of I-III-VI ₂ nanocrystal photocatalysts. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9951-9962	13	7
68	Cation/Anion Exchange Reactions toward the Syntheses of Upgraded Nanostructures: Principles and Applications. <i>Matter</i> , 2020 , 2, 554-586	12.7	33
67	Nanointerface Chemistry: Lattice-Mismatch-Directed Synthesis and Application of Hybrid Nanocrystals. <i>Chemical Reviews</i> , 2020 , 120, 2123-2170	68.1	97
66	Highly Selective Photoreduction of CO with Suppressing H Evolution by Plasmonic Au/CdSe-Cu O Hierarchical Nanostructures under Visible Light. <i>Small</i> , 2020 , 16, e2000426	11	30
65	Atomically thin PdSeO nanosheets: a promising 2D photocatalyst produced by quaternary ammonium intercalation and exfoliation. <i>Chemical Communications</i> , 2020 , 56, 5504-5507	5.8	12
64	Micro-scale 2D quasi-nanosheets formed by 0D nanocrystals: from single to multicomponent building blocks. <i>Science China Materials</i> , 2020 , 63, 1265-1271	7.1	4

63	An immobilization enzyme for screening lipase inhibitors from Tibetan medicines. <i>Journal of Chromatography A</i> , 2020 , 1615, 460711	4.5	11
62	"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	6.6	40
61	Unique Cation Exchange in Nanocrystal Matrix via Surface Vacancy Engineering Overcoming Chemical Kinetic Energy Barriers. <i>CheM</i> , 2020 , 6, 3086-3099	16.2	9
60	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	10	15
59	Bismuth Single Atoms Resulting from Transformation of Metal-Organic Frameworks and Their Use as Electrocatalysts for CO Reduction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16569-16573	16.4	267
58	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	6.4	13
57	Hydrophilic Doped Quantum Dots Ink and Their Inkjet-Printed Patterns for Dual Mode Anticounterfeiting by Reversible Cation Exchange Mechanism. <i>Advanced Functional Materials</i> , 2019 , 29, 1808762	15.6	43
56	Compressive surface strained atomic-layer Cu ₂ O on Cu@Ag nanoparticles. <i>Nano Research</i> , 2019 , 12, 11876119215	10	15
55	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	13	11
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	10	13
53	Efficient Plasmonic Au/CdSe Nanodumbbell for Photoelectrochemical Hydrogen Generation beyond Visible Region. <i>Advanced Energy Materials</i> , 2019 , 9, 1803889	21.8	56
52	Evolution of Hollow CuInS Nanododecahedrons via Kirkendall Effect Driven by Cation Exchange for Efficient Solar Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27170-27177	9.5	23
51	Two-dimensional CdX (X = Se, Te) nanosheets: controlled synthesis and their photoluminescence properties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 13849-13858	7.1	1
50	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	13	25
49	Semiconductor Nanocrystal Engineering by Applying Thiol- and Solvent-Coordinated Cation Exchange Kinetics. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4852-4857	16.4	18
48	Semiconductor Nanocrystal Engineering by Applying Thiol- and Solvent-Coordinated Cation Exchange Kinetics. <i>Angewandte Chemie</i> , 2019 , 131, 4906-4911	3.6	4
47	Au@HgxCd _{1-x} Te core@shell nanorods by sequential aqueous cation exchange for near-infrared photodetectors. <i>Nano Energy</i> , 2019 , 57, 57-65	17.1	23
46	Perovskite nanocrystals: across-dimensional attachment, film-scale assembly on a flexible substrate and their fluorescence properties. <i>Nanotechnology</i> , 2018 , 29, 125606	3.4	5

45	Colloid-Interface-Assisted Laser Irradiation of Nanocrystals Superlattices to be Scalable Plasmonic Superstructures with Novel Activities. <i>Small</i> , 2018 , 14, e1703501	11	7
44	Nanocluster-Mediated Synthesis of Diverse ZnTe Nanostructures: from Nanocrystals to 1D Nanobelts. <i>Chemistry - A European Journal</i> , 2018 , 24, 2999-3004	4.8	5
43	Cu x O self-assembled mesoporous microspheres with effective surface oxygen vacancy and their room temperature NO ₂ gas sensing performance. <i>Science China Materials</i> , 2018 , 61, 1085-1094	7.1	19
42	Metal@semiconductor core-shell nanocrystals with atomically organized interfaces for efficient hot electron-mediated photocatalysis. <i>Nano Energy</i> , 2018 , 48, 44-52	17.1	75
41	From Indium-Doped Ag S to AgInS Nanocrystals: Low-Temperature In Situ Conversion of Colloidal Ag S Nanoparticles and Their NIR Fluorescence. <i>Chemistry - A European Journal</i> , 2018 , 24, 13676-13680	4.8	14
40	Cu nanocrystal enhancement of C ₃ N ₄ /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	6.8	8
39	Phosphine ligand-mediated kinetics manipulation of aqueous cation exchange: a case study on the synthesis of Au@SnS core-shell nanocrystals for photoelectrochemical water splitting. <i>Chemical Communications</i> , 2018 , 54, 9993-9996	5.8	14
38	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	13.6	48
37	Porous platinum-silver bimetallic alloys: surface composition and strain tunability toward enhanced electrocatalysis. <i>Nanoscale</i> , 2018 , 10, 21703-21711	7.7	11
36	Near-Infrared Luminescent Ternary Ag SbS Quantum Dots by in situ Conversion of Ag Nanocrystals with Sb(CH ₃ COO) ₃ . <i>Chemistry - A European Journal</i> , 2018 , 24, 18643-18647	4.8	2
35	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	6.4	4
34	Metal@In ₂ S ₃ /SiO ₂ 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	13.08	17
33	Assembly-promoted photocatalysis: Three-dimensional assembly of CdS x Se 1-x quantum dots into nanospheres with enhanced photocatalytic performance. <i>Journal of Materials</i> , 2017 , 3, 63-70	6.7	2
32	Sintering-Resistant Nanoparticles in Wide-Mouthed Compartments for Sustained Catalytic Performance. <i>Scientific Reports</i> , 2017 , 7, 41773	4.9	37
31	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	3.7	23
30	Controlled Synthesis and Flexible Self-Assembly of Monodisperse Core/Shell Hetero-Nanocrystals into Diverse Superstructures. <i>Chemistry of Materials</i> , 2017 , 29, 2355-2363	9.6	29
29	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	10.26	26
28	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	3.8	22

27	Nature-Inspired NaTiO Nanosheets-Formed Three-Dimensional Microflowes Architecture as a High-Performance Anode Material for Rechargeable Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11669-11677	9.5	79
26	Ultrathin single-crystalline TiO ₂ 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	8.9	55
25	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	6.4	45
24	Wet-Phase Synthesis of Typical Magnetic Nanoparticles with Controlled Morphologies 2017 , 291-326		1
23	Coaxial multi-interface hollow Ni-Al ₂ O ₃ -ZnO nanowires tailored by atomic layer deposition for selective-frequency absorptions. <i>Nano Research</i> , 2017 , 10, 1595-1607	10	62
22	Catalytic nanoarchitectonics for environmentally compatible energy generation. <i>Materials Today</i> , 2016 , 19, 12-18	21.8	145
21	Antibacterial Effect of Silver-Incorporated Flake-Shell Nanoparticles under Dual-Modality. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18922-9	9.5	38
20	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	3.8	21
19	Hierarchical Self-Assembly of CuTe Nanorods into Superstructures with Enhanced SERS Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35426-35434	9.5	13
18	Electromagnetic Property and Tunable Microwave Absorption of 3D Nets from Nickel Chains at Elevated Temperature. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22615-22	9.5	242
17	Towards efficient chemical synthesis via engineering enzyme catalysis in biomimetic nanoreactors. <i>Chemical Communications</i> , 2015 , 51, 13731-9	5.8	27
16	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	7.1	199
15	Multiscale Assembly of Grape-Like Ferroferric Oxide and Carbon Nanotubes: A Smart Absorber Prototype Varying Temperature to Tune Intensities. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19408-15	9.5	267
14	Efficient Co ₃ O ₄ /SiO ₂ catalyst for the Baeyer-Villiger oxidation of cyclohexanone. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014 , 112, 159-171	1.6	7
13	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	13	28
12	Model Iron Phosphate Catalysts for the Oxy-bromination of Methane. <i>Catalysis Letters</i> , 2014 , 144, 1384-1392	13.92	4
11	Facile fabrication of ultrathin graphene papers for effective electromagnetic shielding. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5057-5064	7.1	138
10	Polystyrene sulphonic acid resins with enhanced acid strength via macromolecular self-assembly within confined nanospace. <i>Nature Communications</i> , 2014 , 5, 3170	17.4	102

9	Enzyme confined in silica-based nanocages for biocatalysis in a Pickering emulsion. <i>Chemical Communications</i> , 2013 , 49, 9558-60	5.8	59
8	Enzyme entrapped in polymer-modified nanopores: the effects of macromolecular crowding and surface hydrophobicity. <i>Chemistry - A European Journal</i> , 2013 , 19, 2711-9	4.8	27
7	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	13	235
6	Controllable fabrication of mono-dispersed RGO/Bismutite nanocomposites and their enhanced wave absorption properties. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5996	13	228
5	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	7.1	90
4	Improved catalytic performance of lipase accommodated in the mesoporous silicas with polymer-modified microenvironment. <i>Langmuir</i> , 2012 , 28, 9788-96	4	41
3	Enhanced thermostability of enzymes accommodated in thermo-responsive nanopores. <i>Chemical Science</i> , 2012 , 3, 3398	9.4	26
2	Ru-Co-Mn trimetallic alloy nanocatalyst driving bifunctional redox electrocatalysis. <i>Science China Materials</i> , 1	7.1	4
1	Construction of Plasmonic Metal@Semiconductor Core/Shell Photocatalysts: From Epitaxial to Nonepitaxial Strategies. <i>Small Structures</i> , 2200045	8.7	3