

# Jia-Tao Zhang

## List of Publications by Year in descending order

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152  
papers

10,418  
citations

47409

49  
h-index

39744

98  
g-index

155  
all docs

155  
docs citations

155  
times ranked

13060  
citing authors

#	ARTICLE	IF	CITATIONS
1	Orderly defective superstructure for enhanced pseudocapacitive storage in titanium niobium oxide. <i>Nano Research</i> , 2022, 15, 1570-1578.	5.8	24
2	Ru-Co-Mn trimetallic alloy nanocatalyst driving bifunctional redox electrocatalysis. <i>Science China Materials</i> , 2022, 65, 131-138.	3.5	16
3	RuO <sub>2</sub> clusters derived from bulk SrRuO <sub>3</sub> : Robust catalyst for oxygen evolution reaction in acid. <i>Nano Research</i> , 2022, 15, 1959-1965.	5.8	23
4	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
5	A self-healing zinc ion battery under -20 Å°C. <i>Energy Storage Materials</i> , 2022, 44, 517-526.	9.5	53
6	Computational Studies of Coinage Metal Anion M <sup>n+</sup> + CH <sub>3</sub> X (X = F, Cl, Br, I) Reactions in Gas Phase. <i>Molecules</i> , 2022, 27, 307.	1.7	3
7	Bi/Zn Dual Single-Atom Catalysts for Electroreduction of CO <sub>2</sub> to Syngas. <i>ChemCatChem</i> , 2022, 14, .	1.8	37
8	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
9	Engineering the Local Atomic Environments of Indium Single-Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	27
10	Engineering the Local Atomic Environments of Indium Single-Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	127
11	Synthesis of multicomponent colloidal nanoparticles. , 2022, , .		0
12	A Flexible Aqueous Zinc-Iodine Microbattery with Unprecedented Energy Density. <i>Advanced Materials</i> , 2022, 34, e2109450.	11.1	49
13	Telluride Nanocrystals with Adjustable Amorphous Shell Thickness and Core-Shell Structure Modulation by Aqueous Cation Exchange. <i>Inorganic Chemistry</i> , 2022, 61, 3989-3996.	1.9	7
14	Fe-Functionalized Fe <sub>2</sub> O <sub>3</sub> /ZnO Nanocages for ppb-Level Acetone Gas Sensing. <i>ACS Applied Nano Materials</i> , 2022, 5, 5745-5755.	2.4	10
15	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
16	Integrating Amorphous Molybdenum Sulfide Nanosheets with a Co <sub>9</sub> S <sub>8</sub> @Ni <sub>3</sub> S <sub>2</sub> Array as an Efficient Electrocatalyst for Overall Water Splitting. <i>Langmuir</i> , 2022, 38, 3469-3479.	1.6	21
17	Theoretical Predictions, Experimental Modulation Strategies, and Applications of MXene-Supported Atomically Dispersed Metal Sites. <i>Small</i> , 2022, 18, e2105883.	5.2	28
18	Atomically Surficial Modulation in Two-Dimensional Semiconductor Nanocrystals for Selective Photocatalytic Reactions. <i>Frontiers in Chemistry</i> , 2022, 10, 890287.	1.8	1

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19	Telluride semiconductor nanocrystals: progress on their liquid-phase synthesis and applications. <i>Rare Metals</i> , 2022, 41, 2527-2551.	3.6	10
20	Pure Aqueous Planar Microsupercapacitors with Ultrahigh Energy Density under Wide Temperature Ranges. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
21	Construction of Plasmonic Metal@Semiconductor Core-Shell Photocatalysts: From Epitaxial to Nonepitaxial Strategies. <i>Small Structures</i> , 2022, 3, .	6.9	13
22	Synergetic Dual-Atom Catalysts: The Next Boom of Atomic Catalysts. <i>ChemSusChem</i> , 2022, 15, .	3.6	31
23	Microreactor platform for continuous synthesis of electronic doped quantum dots. <i>Nano Research</i> , 2022, 15, 9647-9653.	5.8	5
24	Stretchable supercapacitor at ~30 °C. <i>Energy and Environmental Science</i> , 2021, 14, 3075-3085.	15.6	114
25	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
26	Catalytic Nanomaterials toward Atomic Levels for Biomedical Applications: From Metal Clusters to Single-Atom Catalysts. <i>ACS Nano</i> , 2021, 15, 2005-2037.	7.3	148
27	Cation Exchange Enabled Cu Dopants Location Tailoring and Photoelectric Properties Regulation in CdS Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3976-3982.	2.1	5
28	Dopant Diffusion Equilibrium Overcoming Impurity Loss of Doped QDs for Multimode Anti-Counterfeiting and Encryption. <i>Advanced Functional Materials</i> , 2021, 31, 2100286.	7.8	31
29	Defect Engineering in 2D Photocatalytic Materials for CO <sub>2</sub> Reduction. <i>ChemNanoMat</i> , 2021, 7, 737-747.	1.5	9
30	Intrinsic and Extrinsic Exciton Recombination Pathways in AgInS <sub>2</sub> Colloidal Nanocrystals. <i>Energy Material Advances</i> , 2021, 2021, .	4.7	15
31	Hybrid Plasmonic Nanodumbbells Engineering for Multi-Intensified Second Near-Infrared Light Induced Photodynamic Therapy. <i>ACS Nano</i> , 2021, 15, 8694-8705.	7.3	59
32	Luminescent Cu doped CdTe nanocrystals via cation exchange of Cu <sub>7</sub> Te <sub>5</sub> nanocubes: From undoped to doped emission. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 398-403.	1.8	2
33	An Aqueous Anti-Freezing and Heat-Tolerant Symmetric Microsupercapacitor with 2.3 V Output Voltage. <i>Advanced Energy Materials</i> , 2021, 11, 2101523.	10.2	28
34	Two-Dimensional All-in-One Sulfide Monolayers Driving Photocatalytic Overall Water Splitting. <i>Nano Letters</i> , 2021, 21, 6228-6236.	4.5	88
35	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
36	Surface-Enhanced Raman Scattering Quantitative Analysis of Ethanol Drop-Coating Silver Nanocubes on Gold Film. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 4715-4725.	0.9	1

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37	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. Applied Catalysis B: Environmental, 2021, 293, 120213.	10.8	123
38	Atomically dispersed Ru in Pt <sub>3</sub> Sn intermetallic alloy as an efficient methanol oxidation electrocatalyst. Chemical Communications, 2021, 57, 2164-2167.	2.2	14
39	Positively charged collective oscillations induce efficient Al <sup>2+</sup> fibril degradation in the presence of novel Au@Cu <sub>2</sub> S core/shell nanorods. Chemical Communications, 2021, 57, 6384-6387.	2.2	9
40	Revealing the effect of interfacial electron transfer in heterostructured Co <sub>9</sub> S <sub>8</sub> @NiFe LDH for enhanced electrocatalytic oxygen evolution. Journal of Materials Chemistry A, 2021, 9, 12244-12254.	5.2	52
41	A telluride shell on plasmonic Au nanoparticles: amorphous/crystalline phase and shape evolution engineering via aqueous cation exchange. Materials Chemistry Frontiers, 2021, 5, 4571-4578.	3.2	8
42	Ultrafine PtRu Dilute Alloy Nanodendrites for Enhanced Electrocatalytic Methanol Oxidation. Chemistry - A European Journal, 2020, 26, 4025-4031.	1.7	19
43	Oxygen vacancy engineering of self-doped SnO <sub>2</sub> nanocrystals for ultrasensitive NO <sub>2</sub> detection. Journal of Materials Chemistry C, 2020, 8, 487-494.	2.7	76
44	Colloidal Cd <sub>x</sub> M <sub>1-x</sub> Te Nanowires from the Visible to the Near Infrared Region: N-Dimethylformamide-Mediated Precise Cation Exchange. Journal of Physical Chemistry Letters, 2020, 11, 7-13.	2.1	9
45	Colloidal Synthesis of Giant Shell PbSe-Based Core/Shell Quantum Dots in Polar Solvent: Cation Exchange versus Epitaxial Growth. Chemistry of Materials, 2020, 32, 6650-6656.	3.2	7
46	Discovery of main group single Sb <sup>N<sub>4</sub></sup> active sites for CO <sub>2</sub> electroreduction to formate with high efficiency. Energy and Environmental Science, 2020, 13, 2856-2863.	15.6	245
47	Synthetic strategies of supported atomic clusters for heterogeneous catalysis. Nature Communications, 2020, 11, 5884.	5.8	174
48	Laser photonic-reduction stamping for graphene-based micro-supercapacitors ultrafast fabrication. Nature Communications, 2020, 11, 6185.	5.8	93
49	Colloidal semiconductor nanocrystals for biological photodynamic therapy applications: Recent progress and perspectives. Progress in Natural Science: Materials International, 2020, 30, 443-455.	1.8	17
50	Design of a Single Atom Indium <sup>+</sup> <sup>N<sub>4</sub></sup> Interface for Efficient Electroreduction of CO <sub>2</sub> to Formate. Angewandte Chemie - International Edition, 2020, 59, 22465-22469.	7.2	232
51	Design of a Single Atom Indium <sup>+</sup> <sup>N<sub>4</sub></sup> Interface for Efficient Electroreduction of CO <sub>2</sub> to Formate. Angewandte Chemie, 2020, 132, 22651-22655.	1.6	29
52	Unique Cation Exchange in Nanocrystal Matrix via Surface Vacancy Engineering Overcoming Chemical Kinetic Energy Barriers. Chem, 2020, 6, 3086-3099.	5.8	18
53	Oxygen Defects in Nanostructured Metal Oxide Gas Sensors: Recent Advances and Challenges. Chinese Journal of Chemistry, 2020, 38, 1832-1846.	2.6	34
54	Phase transformation of PiMoCo and their electrocatalytic activity for oxygen evolution reaction. CrystEngComm, 2020, 22, 6003-6009.	1.3	1

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55	Engineering a metal-organic framework derived Mn <sub>4</sub> C <sub>x</sub> S <sub>y</sub> atomic interface for highly efficient oxygen reduction reaction. <i>Chemical Science</i> , 2020, 11, 5994-5999.	3.7	113
56	Surface passivation enabled-structural engineering of I-III-VI <sub>2</sub> nanocrystal photocatalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9951-9962.	5.2	12
57	Engineering unsymmetrically coordinated Cu-S1N3 single atom sites with enhanced oxygen reduction activity. <i>Nature Communications</i> , 2020, 11, 3049.	5.8	537
58	Engineering Isolated Mn <sub>2</sub> C <sub>2</sub> Atomic Interface Sites for Efficient Bifunctional Oxygen Reduction and Evolution Reaction. <i>Nano Letters</i> , 2020, 20, 5443-5450.	4.5	249
59	Femtosecond laser mediated fabrication of micro/nanostructured TiO <sub>2</sub> - photoelectrodes: Hierarchical nanotubes array with oxygen vacancies and their photocatalysis properties. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119231.	10.8	33
60	Modulating the local coordination environment of single-atom catalysts for enhanced catalytic performance. <i>Nano Research</i> , 2020, 13, 1842-1855.	5.8	532
61	Cation/Anion Exchange Reactions toward the Syntheses of Upgraded Nanostructures: Principles and Applications. <i>Matter</i> , 2020, 2, 554-586.	5.0	81
62	Controlled Synthesis of Co@N-Doped Carbon by Pyrolysis of ZIF with 2-Aminobenzimidazole Ligand for Enhancing Oxygen Reduction Reaction and the Application in Zn-Air Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11693-11701.	4.0	54
63	Nanointerface Chemistry: Lattice-Mismatch-Directed Synthesis and Application of Hybrid Nanocrystals. <i>Chemical Reviews</i> , 2020, 120, 2123-2170.	23.0	206
64	Layered Assembly of Silver Nanocubes/Polyelectrolyte/Gold Film as an Efficient Substrate for Surface-Enhanced Raman Scattering. <i>ACS Applied Nano Materials</i> , 2020, 3, 1934-1941.	2.4	12
65	Atomic-dispersed platinum anchored on porous alumina sheets as an efficient catalyst for diboration of alkyne. <i>Chemical Communications</i> , 2020, 56, 3127-3130.	2.2	17
66	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
67	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
68	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
69	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
70	In Situ Phosphatizing of Triphenylphosphine Encapsulated within Metal-Organic Frameworks to Design Atomic Co <sub>1</sub> @P <sub>1</sub> N <sub>3</sub> Interfacial Structure for Promoting Catalytic Performance. <i>Journal of the American Chemical Society</i> , 2020, 142, 8431-8439.	6.6	259
71	Amorphous molybdenum sulfide nanocatalysts simultaneously realizing efficient upgrading of residue and synergistic synthesis of 2D MoS <sub>2</sub> nanosheets/carbon hierarchical structures. <i>Green Chemistry</i> , 2020, 22, 44-53.	4.6	102
72	Recent Advances in Platinum-based Intermetallic Nanocrystals: Controlled Synthesis and Electrocatalytic Applications. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020, .	2.2	17

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73	Evolution of Hollow CuInS <sub>2</sub> Nanododecahedrons via Kirkendall Effect Driven by Cation Exchange for Efficient Solar Water Splitting. ACS Applied Materials & Interfaces, 2019, 11, 27170-27177.	4.0	40
74	Bismuth Single Atoms Resulting from Transformation of Metal-Organic Frameworks and Their Use as Electrocatalysts for CO <sub>2</sub> Reduction. Journal of the American Chemical Society, 2019, 141, 16569-16573.	6.6	501
75	High-Performance Quantum Dots with Synergistic Doping and Oxide Shell Protection Synthesized by Cation Exchange Conversion of Ternary-Composition Nanoparticles. Journal of Physical Chemistry Letters, 2019, 10, 2606-2615.	2.1	17
76	Synthesis of M-doped (M = Ag, Cu, In) Bi <sub>2</sub> Te <sub>3</sub> nanoplates <i>via</i> a solvothermal method and cation exchange reaction. Inorganic Chemistry Frontiers, 2019, 6, 1097-1102.	3.0	22
77	Hydrophilic Doped Quantum Dots and Their Inkjet-Printed Patterns for Dual Mode Anticounterfeiting by Reversible Cation Exchange Mechanism. Advanced Functional Materials, 2019, 29, 1808762.	7.8	63
78	Compressive surface strained atomic-layer Cu <sub>2</sub> O on Cu@Ag nanoparticles. Nano Research, 2019, 12, 1187-1192.	5.8	21
79	Hollow anisotropic semiconductor nanoprisms with highly crystalline frameworks for high-efficiency photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 8061-8072.	5.2	16
80	Vacuum-tuned-atmosphere induced assembly of Au@Ag core/shell nanocubes into multi-dimensional superstructures and the ultrasensitive IAPP proteins SERS detection. Nano Research, 2019, 12, 1375-1379.	5.8	16
81	Efficient Plasmonic Au/CdSe Nanodumbbell for Photoelectrochemical Hydrogen Generation beyond Visible Region. Advanced Energy Materials, 2019, 9, 1803889.	10.2	85
82	Two-dimensional CdX (X = Se, Te) nanosheets: controlled synthesis and their photoluminescence properties. Journal of Materials Chemistry C, 2019, 7, 13849-13858.	2.7	3
83	Atomic interface effect of a single atom copper catalyst for enhanced oxygen reduction reactions. Energy and Environmental Science, 2019, 12, 3508-3514.	15.6	278
84	Electronic doping-enabled transition from n- to p-type conductivity over Au@CdS core-shell nanocrystals toward unassisted photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 23038-23045.	5.2	42
85	Semiconductor Nanocrystal Engineering by Applying Thiol- and Solvent-Coordinated Cation Exchange Kinetics. Angewandte Chemie - International Edition, 2019, 58, 4852-4857.	7.2	29
86	Semiconductor Nanocrystal Engineering by Applying Thiol- and Solvent-Coordinated Cation Exchange Kinetics. Angewandte Chemie, 2019, 131, 4906-4911.	1.6	8
87	Controllable Synthesis of Nanosized Amorphous MoS <sub>x</sub> Using Temporally Shaped Femtosecond Laser for Highly Efficient Electrochemical Hydrogen Production. Advanced Functional Materials, 2019, 29, 1806229.	7.8	54
88	Au@HgxCd <sub>1-x</sub> Te core@shell nanorods by sequential aqueous cation exchange for near-infrared photodetectors. Nano Energy, 2019, 57, 57-65.	8.2	38
89	Perovskite nanocrystals: across-dimensional attachment, film-scale assembly on a flexible substrate and their fluorescence properties. Nanotechnology, 2018, 29, 125606.	1.3	6
90	Colloid-Interface-Assisted Laser Irradiation of Nanocrystals Superlattices to be Scalable Plasmonic Superstructures with Novel Activities. Small, 2018, 14, e1703501.	5.2	10

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91	Excitonic pathway to photoinduced magnetism in colloidal nanocrystals with nonmagnetic dopants. <i>Nature Nanotechnology</i> , 2018, 13, 145-151.	15.6	64
92	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
93	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
94	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
95	Mesoporous TiO <sub>2</sub> microparticles formed by the oriented attachment of nanocrystals: A super-durable anode material for sodium-ion batteries. <i>Nano Research</i> , 2018, 11, 1563-1574.	5.8	30
96	Cu-enhanced photoelectronic and ethanol sensing properties of Cu <sub>2</sub> O/Cu nanocrystals prepared by one-step controllable synthesis. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 425-431.	3.0	6
97	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
98	Porous platinum-silver bimetallic alloys: surface composition and strain tunability toward enhanced electrocatalysis. <i>Nanoscale</i> , 2018, 10, 21703-21711.	2.8	20
99	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
100	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
101	Noble Metal-Based Nanocomposites for Fuel Cells. , 2018, , .		4
102	Metal@I <sub>2</sub> @IV@VI <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
103	Redox shuttle enhances nonthermal femtosecond two-photon self-doping of rGO@TiO <sub>2</sub> x photocatalysts under visible light. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16430-16438.	5.2	27
104	Hydrothermal One-Step Synthesis of Highly Dispersed M-Phase VO <sub>2</sub> Nanocrystals and Application to Flexible Thermochromic Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28627-28634.	4.0	56
105	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
106	Sharp-featured Au@Ag core/shell nanocuboid synthesis and the label-free ultrasensitive SERS detection of protein single-point mutations. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1720-1724.	3.2	6
107	Synthesis of edge-site selectively deposited Au nanocrystals on TiO <sub>2</sub> nanosheets: An efficient heterogeneous catalyst with enhanced visible-light photoactivity. <i>Electrochimica Acta</i> , 2018, 283, 1095-1104.	2.6	41
108	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

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109	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
110	Assembly-promoted photocatalysis: Three-dimensional assembly of CdS x Se 1~x (x=0~1) quantum dots into nanospheres with enhanced photocatalytic performance. <i>Journal of Materiomics</i> , 2017, 3, 63-70.	2.8	3
111	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
112	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
113	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
114	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
115	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
116	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
117	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
118	Wet-Phase Synthesis of Typical Magnetic Nanoparticles with Controlled Morphologies. , 2017, , 291-326.		1
119	Editorial for rare metals, special issue on nanomaterials and rechargeable battery applications. <i>Rare Metals</i> , 2017, 36, 305-306.	3.6	2
120	Boron-doped microporous nano carbon as cathode material for high-performance Li-S batteries. <i>Nano Research</i> , 2017, 10, 426-436.	5.8	42
121	Yolk / Shell Nanocrystals: A Novel Approach To Catalysis and Drug Release. , 2017, , .		0
122	Structurally Well-Defined Au@Cu <sub>2</sub> S Core-Shell Nanocrystals for Improved Cancer Treatment Based on Enhanced Photothermal Efficiency. <i>Advanced Materials</i> , 2016, 28, 3094-3101.	11.1	228
123	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
124	Aqueous phase synthesis of Au@Ag <sub>3</sub> AuX <sub>2</sub> (X = Se, Te) core/shell nanocrystals and their broad NIR photothermal conversion application. <i>CrystEngComm</i> , 2016, 18, 5418-5422.	1.3	18
125	Noble metal nanoclusters and their in situ calcination to nanocrystals: Precise control of their size and interface with TiO <sub>2</sub> nanosheets and their versatile catalysis applications. <i>Nano Research</i> , 2016, 9, 1763-1774.	5.8	57
126	Site-Specific Growth of Au on CdS <sub>x</sub> Se <sub>1-x</sub> Yields Anisotropic Heteronanocrystals with Enhanced Photocatalysis Performance. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 512-518.	1.2	2



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127	Surface micro/nanostructure evolution of Au@Ag alloy nanoplates: Synthesis, simulation, plasmonic photothermal and surface-enhanced Raman scattering applications. Nano Research, 2016, 9, 876-885.	5.8	43
128	Plasmon enhanced photoelectrochemical sensing of mercury (II) ions in human serum based on Au@Ag nanorods modified TiO <sub>2</sub> nanosheets film. Biosensors and Bioelectronics, 2016, 79, 866-873.	5.3	60
129	Ternary cooperative Au@Cd/rGO hetero-nanostructures: synthesis with multi-interface control and their photoelectrochemical sensor applications. RSC Advances, 2016, 6, 30785-30790.	1.7	11
130	Aqueous oxidation reaction enabled layer-by-layer corrosion of semiconductor nanoplates into single-crystalline 2D nanocrystals with single layer accuracy and ionic surface capping. Chemical Communications, 2016, 52, 3426-3429.	2.2	5
131	Cation coordination reactions on nanocrystals: surface/interface, doping control and advanced photocatalysis applications (Conference Presentation). , 2016, . .		0
132	From Cu <sub>2</sub> S nanocrystals to Cu doped CdS nanocrystals through cation exchange: controlled synthesis, optical properties and their p-type conductivity research. Science China Materials, 2015, 58, 693-703.	3.5	23
133	Bamboo-Like Nitrogen-Doped Carbon Nanotubes with Co Nanoparticles Encapsulated at the Tips: Uniform and Large-Scale Synthesis and High-Performance Electrocatalysts for Oxygen Reduction. Chemistry - A European Journal, 2015, 21, 14022-14029.	1.7	74
134	Phosphine-Initiated Cation Exchange for Precisely Tailoring Composition and Properties of Semiconductor Nanostructures: Old Concept, New Applications. Angewandte Chemie - International Edition, 2015, 54, 3683-3687.	7.2	51
135	Core@shell sub-ten-nanometer noble metal nanoparticles with a controllable thin Pt shell and their catalytic activity towards oxygen reduction. Nano Research, 2015, 8, 271-280.	5.8	30
136	Oriented attachment of nanoparticles to form micrometer-sized nanosheets/nanobelts by topotactic reaction on rigid/flexible substrates with improved electronic properties. NPG Asia Materials, 2015, 7, e152-e152.	3.8	23
137	Heterovalent-Doping-Enabled Efficient Dopant Luminescence and Controllable Electronic Impurity Via a New Strategy of Preparing II <sup>VI</sup> Nanocrystals. Advanced Materials, 2015, 27, 2753-2761.	11.1	67
138	Engineering Acoustic Phonons and Electron-Phonon Coupling by the Nanoscale Interface. Nano Letters, 2015, 15, 6282-6288.	4.5	31
139	Rigid three-dimensional Ni <sub>3</sub> S <sub>4</sub> nanosheet frames: controlled synthesis and their enhanced electrochemical performance. RSC Advances, 2015, 5, 8422-8426.	1.7	70
140	Controlling Structural Symmetry of a Hybrid Nanostructure and its Effect on Efficient Photocatalytic Hydrogen Evolution. Advanced Materials, 2014, 26, 1387-1392.	11.1	142
141	P-type Cu <sub>7</sub> Te <sub>5</sub> single-crystalline nanocuboids: size-controlled synthesis and large-scale self-assembly. CrystEngComm, 2014, 16, 9441-9445.	1.3	5
142	A facile strategy to prepare monodisperse nanocrystals with initiative assembly into superlattice. Progress in Natural Science: Materials International, 2013, 23, 588-592.	1.8	6
143	Tailoring light-matter-spin interactions in colloidal hetero-nanostructures. Nature, 2010, 466, 91-95.	13.7	242
144	Nonepitaxial Growth of Hybrid Core-Shell Nanostructures with Large Lattice Mismatches. Science, 2010, 327, 1634-1638.	6.0	514

#	ARTICLE	IF	CITATIONS
145	Versatile Strategy for Precisely Tailored Core@Shell Nanostructures with Single Shell Layer Accuracy: The Case of Metallic Shell. <i>Nano Letters</i> , 2009, 9, 4061-4065.	4.5	76
146	Synthesis and Crystal Structures of the Ligand-Stabilized Silver Chalcogenide Clusters [Ag <sub>154</sub> Se <sub>77</sub> (dppxy) <sub>18</sub> ], [Ag <sub>320</sub> (S <sub>2</sub> EtBu) <sub>60</sub> S <sub>130</sub> (dppp) <sub>12</sub> ], [Ag <sub>352</sub> S <sub>128</sub> (S <sub>2</sub> EtC <sub>5</sub> H <sub>11</sub> ) <sub>96</sub> ], and [Ag <sub>490</sub> S <sub>188</sub> (S <sub>2</sub> EtC <sub>5</sub> H <sub>11</sub> ) <sub>114</sub> ]. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1326-1331.	7.2	241
147	Hollow core photonic crystal fiber surface-enhanced Raman probe. <i>Applied Physics Letters</i> , 2006, 89, 204101.	1.5	113
148	Nearly Monodisperse Cu <sub>2</sub> O and CuO Nanospheres: Preparation and Applications for Sensitive Gas Sensors. <i>Chemistry of Materials</i> , 2006, 18, 867-871.	3.2	1,053
149	Surface Enhanced Raman Scattering Effects of Silver Colloids with Different Shapes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12544-12548.	1.2	359
150	Optical and electrical properties of carbon nitride films deposited by cathode electrodeposition. <i>Journal of Materials Science</i> , 2003, 38, 2559-2562.	1.7	5
151	Formation of crystalline carbon nitride powder by a mild solvothermal method. <i>Journal of Materials Chemistry</i> , 2003, 13, 1241.	6.7	91
152	Precisely Controllable Synthesized Nanoparticles for Surface Enhanced Raman Spectroscopy. , 0, , .		2