

Jia-Tao Zhang

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145
papers

6,555
citations

38
h-index

79
g-index

155
ext. papers

8,400
ext. citations

10.9
avg, IF

6.29
L-index

#	Paper	IF	Citations
145	Nearly Monodisperse Cu ₂ O and CuO Nanospheres: Preparation and Applications for Sensitive Gas Sensors. <i>Chemistry of Materials</i> , 2006 , 18, 867-871	9.6	966
144	Nonepitaxial growth of hybrid core-shell nanostructures with large lattice mismatches. <i>Science</i> , 2010 , 327, 1634-8	33.3	464
143	Surface enhanced Raman scattering effects of silver colloids with different shapes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12544-8	3.4	329
142	Modulating the local coordination environment of single-atom catalysts for enhanced catalytic performance. <i>Nano Research</i> , 2020 , 13, 1842-1855	10	297
141	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
140	Tailoring light-matter-spin interactions in colloidal hetero-nanostructures. <i>Nature</i> , 2010 , 466, 91-5	50.4	215
139	Synthesis and crystal structures of the ligand-stabilized silver chalcogenide clusters [Ag ₁₅₄ Se ₇₇ (dppxy) ₁₈], [Ag ₃₂₀ (StBu) ₆₀ S ₁₃₀ (dppp) ₁₂], [Ag ₃₅₂ S ₁₂₈ (StC ₅ H ₁₁) ₉₆], and [Ag ₄₉₀ S ₁₈₈ (StC ₅ H ₁₁) ₁₁₄]. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1326-31	16.4	211
138	Engineering unsymmetrically coordinated Cu-SN single atom sites with enhanced oxygen reduction activity. <i>Nature Communications</i> , 2020 , 11, 3049	17.4	210
137	Structurally Well-Defined Au@Cu ₂ -xS Core-Shell Nanocrystals for Improved Cancer Treatment Based on Enhanced Photothermal Efficiency. <i>Advanced Materials</i> , 2016 , 28, 3094-101	24	178
136	Atomic interface effect of a single atom copper catalyst for enhanced oxygen reduction reactions. <i>Energy and Environmental Science</i> , 2019 , 12, 3508-3514	35.4	146
135	Engineering Isolated Mn-NC Atomic Interface Sites for Efficient Bifunctional Oxygen Reduction and Evolution Reaction. <i>Nano Letters</i> , 2020 , 20, 5443-5450	11.5	135
134	Controlling structural symmetry of a hybrid nanostructure and its effect on efficient photocatalytic hydrogen evolution. <i>Advanced Materials</i> , 2014 , 26, 1387-92	24	125
133	In Situ Phosphatizing of Triphenylphosphine Encapsulated within Metal-Organic Frameworks to Design Atomic Co-PN Interfacial Structure for Promoting Catalytic Performance. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8431-8439	16.4	123
132	Discovery of main group single Sb ₄ active sites for CO ₂ electroreduction to formate with high efficiency. <i>Energy and Environmental Science</i> , 2020 , 13, 2856-2863	35.4	113
131	Design of a Single-Atom Indium -N Interface for Efficient Electroreduction of CO to Formate. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22465-22469	16.4	102
130	Nanointerface Chemistry: Lattice-Mismatch-Directed Synthesis and Application of Hybrid Nanocrystals. <i>Chemical Reviews</i> , 2020 , 120, 2123-2170	68.1	97
129	Hollow core photonic crystal fiber surface-enhanced Raman probe. <i>Applied Physics Letters</i> , 2006 , 89, 2041-4	10.1	86

128	Formation of crystalline carbon nitride powder by a mild solvothermal method. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1241		83
127	Nature-Inspired NaTiO Nanosheets-Formed Three-Dimensional Microflowers 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
126	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
125	Synthetic strategies of supported atomic clusters for heterogeneous catalysis. <i>Nature Communications</i> , 2020 , 11, 5884	17.4	74
124	Versatile strategy for precisely tailored core@shell nanostructures with single shell layer accuracy: the case of metallic shell. <i>Nano Letters</i> , 2009 , 9, 4061-5	11.5	72
123	Amorphous molybdenum sulfide nanocatalysts simultaneously realizing efficient upgrading of residue and synergistic synthesis of 2D MoS ₂ nanosheets/carbon hierarchical structures. <i>Green Chemistry</i> , 2020 , 22, 44-53	10	71
122	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. <i>Chemistry - A European Journal</i> , 2015 , 21, 14022-9	4.8	66
121	Rigid three-dimensional Ni ₃ S ₄ nanosheet frames: controlled synthesis and their enhanced electrochemical performance. <i>RSC Advances</i> , 2015 , 5, 8422-8426	3.7	64
120	Heterovalent-Doping-Enabled Efficient Dopant Luminescence and Controllable Electronic Impurity Via a New Strategy of Preparing II-VI Nanocrystals. <i>Advanced Materials</i> , 2015 , 27, 2753-61	24	60
119	Engineering a metal-organic framework derived Mn-N-C S atomic interface for highly efficient oxygen reduction reaction. <i>Chemical Science</i> , 2020 , 11, 5994-5999	9.4	59
118	Efficient Plasmonic Au/CdSe Nanodumbbell for Photoelectrochemical Hydrogen Generation beyond Visible Region. <i>Advanced Energy Materials</i> , 2019 , 9, 1803889	21.8	56
117	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
116	Plasmon enhanced photoelectrochemical sensing of mercury (II) ions in human serum based on Au@Ag nanorods modified TiO ₂ nanosheets film. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 866-73	11.8	52
115	Oxygen vacancy engineering of self-doped SnO ₂ nanocrystals for ultrasensitive NO ₂ detection. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 487-494	7.1	52
114	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
113	Excitonic pathway to photoinduced magnetism in colloidal nanocrystals with nonmagnetic dopants. <i>Nature Nanotechnology</i> , 2018 , 13, 145-151	28.7	47
112	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
111	Phosphine-initiated cation exchange for precisely tailoring composition and properties of semiconductor nanostructures: old concept, new applications. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3683-7	16.4	45

110	Noble metal nanoclusters and their in situ calcination to nanocrystals: Precise control of their size and interface with TiO ₂ nanosheets and their versatile catalysis applications. <i>Nano Research</i> , 2016 , 9, 1763-1774	10	45
109	Stretchable supercapacitor at 0 °C. <i>Energy and Environmental Science</i> , 2021 , 14, 3075-3085	35.4	45
108	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
107	Boron-doped microporous nano carbon as cathode material for high-performance Li-S batteries. <i>Nano Research</i> , 2017 , 10, 426-436	10	37
106	Catalytic Nanomaterials toward Atomic Levels for Biomedical Applications: From Metal Clusters to Single-Atom Catalysts. <i>ACS Nano</i> , 2021 , 15, 2005-2037	16.7	37
105	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 & Interfaces</i> , 2020 , 12, 11693-11701	9.5	36
104	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
103	Synthesis of edge-site selectively deposited Au nanocrystals on TiO ₂ nanosheets: An efficient heterogeneous catalyst with enhanced visible-light photoactivity. <i>Electrochimica Acta</i> , 2018 , 283, 1095-1104	6.7	34
102	Laser photonic-reduction stamping for graphene-based micro-supercapacitors ultrafast fabrication. <i>Nature Communications</i> , 2020 , 11, 6185	17.4	34
101	Cation/Anion Exchange Reactions toward the Syntheses of Upgraded Nanostructures: Principles and Applications. <i>Matter</i> , 2020 , 2, 554-586	12.7	33
100	Hydrothermal One-Step Synthesis of Highly Dispersed M-Phase VO Nanocrystals and Application to Flexible Thermochromic Film. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28627-28634	9.5	33
99	Controllable Synthesis of Nanosized Amorphous MoS _x Using Temporally Shaped Femtosecond Laser for Highly Efficient Electrochemical Hydrogen Production. <i>Advanced Functional Materials</i> , 2019 , 29, 1806229	15.6	33
98	Highly Selective Photoreduction of CO with Suppressing H ₂ Evolution by Plasmonic Au/CdSe-Cu ₂ O Hierarchical Nanostructures under Visible Light. <i>Small</i> , 2020 , 16, e2000426	11	30
97	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
96	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
95	Surface micro/nanostructure evolution of Au/Ag alloy nanoplates: Synthesis, simulation, plasmonic photothermal and surface-enhanced Raman scattering applications. <i>Nano Research</i> , 2016 , 9, 876-885	10	26
94	Core@shell sub-ten-nanometer noble metal nanoparticles with a controllable thin Pt shell and their catalytic activity towards oxygen reduction. <i>Nano Research</i> , 2015 , 8, 271-280	10	25
93	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

92	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
91	Mesoporous TiO ₂ 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	10	23
90	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
89	Phosphine-Initiated Cation Exchange for Precisely Tailoring Composition and Properties of Semiconductor Nanostructures: Old Concept, New Applications. <i>Angewandte Chemie</i> , 2015 , 127, 3754-3758	3.6	23
88	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
87	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	1.8	22
86	Engineering Acoustic Phonons and Electron-Phonon Coupling by the Nanoscale Interface. <i>Nano Letters</i> , 2015 , 15, 6282-8	11.5	21
85	From Cu ₂ S nanocrystals to Cu doped CdS nanocrystals through cation exchange: controlled synthesis, optical properties and their p-type conductivity research. <i>Science China Materials</i> , 2015 , 58, 693-703	7.1	21
84	Two-Dimensional All-in-One Sulfide Monolayers Driving Photocatalytic Overall Water Splitting. <i>Nano Letters</i> , 2021 , 21, 6228-6236	11.5	21
83	Oriented attachment of nanoparticles to form micrometer-sized nanosheets/nanobelts by topotactic reaction on rigid/flexible substrates with improved electronic properties. <i>NPG Asia Materials</i> , 2015 , 7, e152-e152	10.3	20
82	Redox shuttle enhances nonthermal femtosecond two-photon self-doping of rGO@TiO ₂ photocatalysts under visible light. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16430-16438	13	20
81	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
80	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
79	Metal@I ₂ @[M ₂ Se ₄] 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	1.3	17
78	Synthesis of M-doped (M = Ag, Cu, In) Bi ₂ Te ₃ nanoplates via a solvothermal method and cation exchange reaction. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1097-1102	6.8	16
77	Compressive surface strained atomic-layer Cu ₂ O on Cu@Ag nanoparticles. <i>Nano Research</i> , 2019 , 12, 11876-11921	11.5	15
76	Hybrid Plasmonic Nanodumbbells Engineering for Multi-Intensified Second Near-Infrared Light Induced Photodynamic Therapy. <i>ACS Nano</i> , 2021 , 15, 8694-8705	16.7	15
75	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

74	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
73	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
72	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
71	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
70	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
69	Femtosecond laser mediated fabrication of micro/nanostructured TiO ₂ - photoelectrodes: Hierarchical nanotubes array with oxygen vacancies and their photocatalysis properties. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119231	21.8	12
68	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
67	Recent Advances in Platinum-based Intermetallic Nanocrystals: Controlled Synthesis and Electrocatalytic Applications. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 2003047-0	3.8	12
66	Design of a Single-Atom Indium-terminated Cu ₂ N ₄ Interface for Efficient Electroreduction of CO ₂ to Formate. <i>Angewandte Chemie</i> , 2020 , 132, 22651-22655	3.6	12
65	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
64	Atomic-dispersed platinum anchored on porous alumina sheets as an efficient catalyst for diboration of alkynes. <i>Chemical Communications</i> , 2020 , 56, 3127-3130	5.8	11
63	Ultrafine PtRu Dilute Alloy Nanodendrites for Enhanced Electrocatalytic Methanol Oxidation. <i>Chemistry - A European Journal</i> , 2019 , 26, 4025	4.8	11
62	Aqueous phase synthesis of Au@Ag ₃ AuX ₂ (X = Se, Te) core/shell nanocrystals and their broad NIR photothermal conversion application. <i>CrystEngComm</i> , 2016 , 18, 5418-5422	3.3	11
61	Porous platinum-silver bimetallic alloys: surface composition and strain tunability toward enhanced electrocatalysis. <i>Nanoscale</i> , 2018 , 10, 21703-21711	7.7	11
60	Ternary cooperative Au ₂ CdSeGO hetero-nanostructures: synthesis with multi-interface control and their photoelectrochemical sensor applications. <i>RSC Advances</i> , 2016 , 6, 30785-30790	3.7	10
59	Oxygen Defects in Nanostructured Metal-Oxide Gas Sensors: Recent Advances and Challenges. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1832-1846	4.9	10
58	An Aqueous Anti-Freezing and Heat-Tolerant Symmetric Microsupercapacitor with 2.3V Output Voltage. <i>Advanced Energy Materials</i> , 2021 , 11, 2101523	21.8	10
57	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

56	Cu nanocrystal enhancement of C3N4/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
55	Engineering the Local Atomic Environments of Indium Single-Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	8
54	Colloidal semiconductor nanocrystals for biological photodynamic therapy applications: Recent progress and perspectives. <i>Progress in Natural Science: Materials International</i> , 2020 , 30, 443-455	3.6	8
53	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
52	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	5.6	7
51	Colloid-Interface-Assisted Laser Irradiation of Nanocrystals Superlattices to be Scalable Plasmonic Superstructures with Novel Activities. <i>Small</i> , 2018 , 14, e1703501	11	7
50	Dopant Diffusion Equilibrium Overcoming Impurity Loss of Doped QDs for Multimode Anti-Counterfeiting and Encryption. <i>Advanced Functional Materials</i> , 2021 , 31, 2100286	15.6	7
49	Revealing the effect of interfacial electron transfer in heterostructured Co ₉ S ₈ @NiFe LDH for enhanced electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12244-12254	13	7
48	Theoretical Predictions, Experimental Modulation Strategies, and Applications of MXene-Supported Atomically Dispersed Metal Sites.. <i>Small</i> , 2021 , e2105883	11	7
47	A facile strategy to prepare monodisperse nanocrystals with initiative assembly into superlattice. <i>Progress in Natural Science: Materials International</i> , 2013 , 23, 588-592	3.6	6
46	A Self-healing Zinc Ion Battery under -20 °C. <i>Energy Storage Materials</i> , 2021 ,	19.4	6
45	Intrinsic and Extrinsic Exciton Recombination Pathways in AgInS ₂ Colloidal Nanocrystals. <i>Energy Material Advances</i> , 2021 , 2021, 1-10	1	6
44	Orderly defective superstructure for enhanced pseudocapacitive storage in titanium niobium oxide. <i>Nano Research</i> ,1	10	6
43	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
42	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
41	Aqueous oxidation reaction enabled layer-by-layer corrosion of semiconductor nanoplates into single-crystalline 2D nanocrystals with single layer accuracy and ionic surface capping. <i>Chemical Communications</i> , 2016 , 52, 3426-9	5.8	5
40	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	7.8	5
39	P-type Cu ₇ Te ₅ single-crystalline nanocuboids: size-controlled synthesis and large-scale self-assembly. <i>CrystEngComm</i> , 2014 , 16, 9441-9445	3.3	5

38	Colloidal CdMTe Nanowires from the Visible to the Near Infrared Region: γ -Dimethylformamide-Mediated Precise Cation Exchange. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7-13	6.4	5
37	Cu-enhanced photoelectronic and ethanol sensing properties of Cu ₂ O/Cu nanocrystals prepared by one-step controllable synthesis. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 425-431	6.8	5
36	RuO ₂ clusters derived from bulk SrRuO ₃ : Robust catalyst for oxygen evolution reaction in acid. <i>Nano Research</i> , 1	10	5
35	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
34	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
33	Optical and electrical properties of carbon nitride films deposited by cathode electrodeposition. <i>Journal of Materials Science</i> , 2003 , 38, 2559-2562	4.3	4
32	Semiconductor Nanocrystal Engineering by Applying Thiol- and Solvent-Coordinated Cation Exchange Kinetics. <i>Angewandte Chemie</i> , 2019 , 131, 4906-4911	3.6	4
31	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
30	Ru-Co-Mn trimetallic alloy nanocatalyst driving bifunctional redox electrocatalysis. <i>Science China Materials</i> , 1	7.1	4
29	Bi/Zn dual single-atom catalysts for electroreduction of CO ₂ to syngas. <i>ChemCatChem</i> ,	5.2	3
28	A Flexible Aqueous Zinc-Iodine Micro-battery with Unprecedented Energy Density.. <i>Advanced Materials</i> , 2022 , e2109450	24	3
27	Colloidal Synthesis of Giant Shell PbSe-Based Core/Shell Quantum Dots in Polar Solvent: Cation Exchange versus Epitaxial Growth. <i>Chemistry of Materials</i> , 2020 , 32, 6650-6656	9.6	3
26	Defect Engineering in 2D Photocatalytic Materials for CO ₂ Reduction. <i>ChemNanoMat</i> , 2021 , 7, 737-747	3.5	3
25	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
24	Noble Metal-Based Nanocomposites for Fuel Cells 2018 ,		3
23	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	3.8	3
22	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
21	Construction of Plasmonic Metal@Semiconductor Core/Shell Photocatalysts: From Epitaxial to Nonepitaxial Strategies. <i>Small Structures</i> , 2200045	8.7	3

20	Assembly-promoted photocatalysis: Three-dimensional assembly of CdS x Se 1-x (x=0.01) quantum dots into nanospheres with enhanced photocatalytic performance. <i>Journal of Materiomics</i> , 2017 , 3, 63-70	6.7	2
19	Site-Specific Growth of Au on CdSxSe1-x Yields Anisotropic Heteronanocrystals with Enhanced Photocatalysis Performance. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 512-518	3.1	2
18	Editorial for rare metals, special issue on nanomaterials and rechargeable battery applications. <i>Rare Metals</i> , 2017 , 36, 305-306	5.5	2
17	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
16	Doping transition metal in PdSeO3 atomic layers by aqueous cation exchange: A new doping protocol for a new 2D photocatalyst. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	2
15	Luminescent Cu doped CdTe nanocrystals via cation exchange of Cu7Te5 nanocubes: From undoped to doped emission. <i>Progress in Natural Science: Materials International</i> , 2021 , 31, 398-398	3.6	2
14	Near-Infrared Luminescent Ternary Ag SbS Quantum Dots by in situ Conversion of Ag Nanocrystals with Sb(CH ₃ COOS). <i>Chemistry - A European Journal</i> , 2018 , 24, 18643-18647	4.8	2
13	Positively charged collective oscillations induce efficient Aβ-42 fibril degradation in the presence of novel Au@CuS core/shell nanorods. <i>Chemical Communications</i> , 2021 , 57, 6384-6387	5.8	2
12	Telluride Nanocrystals with Adjustable Amorphous Shell Thickness and Core-Shell Structure Modulation by Aqueous Cation Exchange.. <i>Inorganic Chemistry</i> , 2022 ,	5.1	2
11	Wet-Phase Synthesis of Typical Magnetic Nanoparticles with Controlled Morphologies 2017 , 291-326		1
10	Phase transformation of PiMoCo and their electrocatalytic activity for oxygen evolution reaction. <i>CrystEngComm</i> , 2020 , 22, 6003-6009	3.3	1
9	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	6.4	1
8	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
7	Precisely Controllable Synthesized Nanoparticles for Surface Enhanced Raman Spectroscopy 2018 ,		1
6	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	1.3	1
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4	Telluride semiconductor nanocrystals: progress on their liquid-phase synthesis and applications. <i>Rare Metals</i> ,	5.5	1
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