

Zewei Quan

List of Publications by Year in descending order

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94
papers

5,749
citations

76196

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97
docs citations

97
times ranked

7765
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllable synthesis of platinum-tin intermetallic nanoparticles with high electrocatalytic performance for ethanol oxidation. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1143-1151.	3.0	5
2	Hexagonal PtBi Intermetallic Inlaid with Sub-Monolayer Pb Oxyhydroxide Boosts Methanol Oxidation. <i>Small</i> , 2022, 18, e2107803.	5.2	24
3	Integrated Afterglow and Self-Trapped Exciton Emissions in Hybrid Metal Halides for Anti-Counterfeiting Applications. <i>Advanced Materials</i> , 2022, 34, e2200607.	11.1	73
4	Pressure-Induced Amorphization and Crystallization of Heterophase Pd Nanostructures. <i>Small</i> , 2022, 18, e2106396.	5.2	9
5	Self-Trapped Exciton Emission with High Thermal Stability in Antimony-Doped Hybrid Manganese Chloride. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	34
6	Dangling Octahedra Enable Edge States in 2D Lead Halide Perovskites. <i>Advanced Materials</i> , 2022, 34, e2201666.	11.1	22
7	Zero-dimensional hybrid binuclear manganese chloride with thermally stable yellow emission. <i>Chemical Communications</i> , 2022, 58, 6926-6929.	2.2	5
8	Pressure-Engineered Photoluminescence Tuning in Zero-Dimensional Lead Bromide Trimer Clusters. <i>Angewandte Chemie</i> , 2021, 133, 2615-2619.	1.6	15
9	Pressure-Engineered Photoluminescence Tuning in Zero-Dimensional Lead Bromide Trimer Clusters. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2583-2587.	7.2	66
10	Trace Pd modified intermetallic PtBi nanoplates towards efficient formic acid electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9602-9608.	5.2	36
11	A Tensile-Strained Pt-Rh Single-Atom Alloy Remarkably Boosts Ethanol Oxidation. <i>Advanced Materials</i> , 2021, 33, e2008508.	11.1	111
12	Structure and Photoluminescence Transformation in Hybrid Manganese(II) Chlorides. <i>Inorganic Chemistry</i> , 2021, 60, 6600-6606.	1.9	27
13	Upconverted Metal-Organic Framework Janus Architecture for Near-Infrared and Ultrasound Co-Enhanced High Performance Tumor Therapy. <i>ACS Nano</i> , 2021, 15, 12342-12357.	7.3	148
14	Highly Luminescent Metal-Free Perovskite Single Crystal for Biocompatible X-Ray Detector to Attain Highest Sensitivity. <i>Advanced Materials</i> , 2021, 33, e2102190.	11.1	46
15	Excitation-Dependent Emission Color Tuning of OD Cs ₂ InBr ₅ ·H ₂ O at High Pressure. <i>Advanced Functional Materials</i> , 2021, 31, 2104923.	7.8	35
16	Pressure-Driven Reverse Intersystem Crossing: New Path toward Bright Deep-Blue Emission of Lead-Free Halide Double Perovskites. <i>Journal of the American Chemical Society</i> , 2021, 143, 15176-15184.	6.6	59
17	Thermochromism and piezochromism of an atomically precise high-nuclearity silver sulfide nanocluster. <i>Chemical Communications</i> , 2021, 57, 2372-2375.	2.2	16
18	Poly(vinylidene difluoride) coating on Cu current collector for high-performance Na metal anode. <i>Energy Storage Materials</i> , 2020, 24, 588-593.	9.5	48

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19	Pressure-Induced Remarkable Enhancement of Self-Trapped Exciton Emission in One-Dimensional CsCu ₂ I ₃ with Tetrahedral Units. <i>Journal of the American Chemical Society</i> , 2020, 142, 1786-1791.	6.6	121
20	Colloidal syntheses of zero-dimensional Cs ₄ SnX ₆ (X = Br, I) nanocrystals with high emission efficiencies. <i>Chemical Communications</i> , 2020, 56, 387-390.	2.2	35
21	OD Cs ₃ Cu ₂ X ₅ (X = I, Br, and Cl) Nanocrystals: Colloidal Syntheses and Optical Properties. <i>Small</i> , 2020, 16, e1905226.	5.2	158
22	Self-assembly of anisotropic nanoparticles into functional superstructures. <i>Chemical Society Reviews</i> , 2020, 49, 6002-6038.	18.7	140
23	Novel Bi-Doped Amorphous SnO _x Nanoshells for Efficient Electrochemical CO ₂ Reduction into Formate at Low Overpotentials. <i>Advanced Materials</i> , 2020, 32, e2002822.	11.1	104
24	Supercrystallographic Reconstruction of 3D Nanorod Assembly with Collectively Anisotropic Upconversion Fluorescence. <i>Nano Letters</i> , 2020, 20, 7367-7374.	4.5	17
25	Binary Nanoparticle Superlattices for Plasmonically Modulating Upconversion Luminescence. <i>Small</i> , 2020, 16, e2002066.	5.2	11
26	Selected Negative Linear Compressibilities in the Metal-Organic Framework of [Cu(4,4'-bpy) ₂ (H ₂ O) ₂]-SiF ₆ . <i>Inorganic Chemistry</i> , 2020, 59, 1715-1722.	1.9	19
27	Shape-directed self-assembly of nanodumbbells into superstructure polymorphs. <i>Chemical Science</i> , 2020, 11, 4065-4073.	3.7	15
28	Trimetallic Synergy in Intermetallic PtSnBi Nanoplates Boosts Formic Acid Oxidation. <i>Advanced Materials</i> , 2019, 31, e1903683.	11.1	112
29	Superstructures: Directing Gold Nanoparticles into Free-Standing Honeycomb-Like Ordered Mesoporous Superstructures (Small 31/2019). <i>Small</i> , 2019, 15, 1970165.	5.2	0
30	Anisotropic Arm Growth in Unconventional Semiconductor CdSe/CdS Nanotetrapod Synthesis Using Core/Shell CdSe/CdS as Seeds. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19238-19245.	1.5	13
31	Hybrid Protective Layer for Stable Sodium Metal Anodes at High Utilization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37693-37700.	4.0	51
32	Monodisperse tin nanoparticles and hollow tin oxide nanospheres as anode materials for high performance lithium ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 473-476.	3.0	14
33	Yolk-shell structured SnSe as a high-performance anode for Na-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 562-565.	3.0	48
34	Understanding Fe ₃ O ₄ Nanocube Assembly with Reconstruction of a Consistent Superlattice Phase Diagram. <i>Journal of the American Chemical Society</i> , 2019, 141, 3198-3206.	6.6	37
35	Lithiophilic Ag Nanoparticle Layer on Cu Current Collector toward Stable Li Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8148-8154.	4.0	120
36	Metal halide perovskites under compression. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16089-16108.	5.2	42

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37	Tin-based nanomaterials: colloidal synthesis and battery applications. <i>Chemical Communications</i> , 2019, 55, 8683-8694.	2.2	18
38	Ordered mesoporous silver superstructures with SERS hot spots. <i>Chemical Communications</i> , 2019, 55, 7982-7985.	2.2	18
39	Directing Gold Nanoparticles into Free-standing Honeycomb-like Ordered Mesoporous Superstructures. <i>Small</i> , 2019, 15, e1901304.	5.2	8
40	One-nanometer-thick platinum-based nanowires with controllable surface structures. <i>Nano Research</i> , 2019, 12, 1721-1726.	5.8	18
41	3D Printing of Hierarchical Graphene Lattice for Advanced Na Metal Anodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 3869-3877.	2.5	40
42	Facile Synthesis of Uniform Sn _{1-x} Ge _x Alloy Nanocrystals with Tunable Bandgap. <i>Chemistry of Materials</i> , 2019, 31, 2248-2252.	3.2	14
43	SnPO _{0.94} nanoplates/graphene oxide composite for novel potassium-ion battery anode. <i>Chemical Engineering Journal</i> , 2019, 370, 677-683.	6.6	77
44	Generalized Synthesis of Uniform Metal Nanoparticles Assisted with Tungsten Hexacarbonyl. <i>Chemistry of Materials</i> , 2019, 31, 4325-4329.	3.2	15
45	Black Phosphorus: Thickness-Dependent Structural Stability and Anisotropy of Black Phosphorus (<i>Adv. Electron. Mater.</i> 3/2019). <i>Advanced Electronic Materials</i> , 2019, 5, 1970012.	2.6	2
46	Ni ₃ N Nanocrystals Decorated Reduced Graphene Oxide with High Ionic Conductivity for Stable Lithium Metal Anode. <i>ACS Applied Energy Materials</i> , 2019, 2, 2692-2698.	2.5	30
47	Rare Earth Hydroxide as a Precursor for Controlled Fabrication of Uniform $\hat{\Gamma}$ -NaYF ₄ Nanoparticles: A Novel, Low Cost, and Facile Method. <i>Molecules</i> , 2019, 24, 357.	1.7	5
48	SnO ₂ patched ultrathin PtRh nanowires as efficient catalysts for ethanol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27377-27382.	5.2	36
49	Thickness-dependent Structural Stability and Anisotropy of Black Phosphorus. <i>Advanced Electronic Materials</i> , 2019, 5, 1800712.	2.6	11
50	High Pressure Structural and Optical Properties of Two-Dimensional Hybrid Halide Perovskite (CH ₃ NH ₃) ₃ Bi ₂ Br ₉ . <i>Inorganic Chemistry</i> , 2019, 58, 1621-1626.	1.9	46
51	Thermally reduced graphene paper with fast Li ion diffusion for stable Li metal anode. <i>Electrochimica Acta</i> , 2019, 294, 413-422.	2.6	28
52	Synthesis of Lead-free CsGe ₃ Perovskite Colloidal Nanocrystals and Electron Beam-induced Transformations. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1654-1659.	1.7	86
53	Controlled Synthesis of PtNi Hexapods for Enhanced Oxygen Reduction Reaction. <i>Frontiers in Chemistry</i> , 2018, 6, 468.	1.8	17
54	Pressure-Induced Phase Engineering of Gold Nanostructures. <i>Journal of the American Chemical Society</i> , 2018, 140, 15783-15790.	6.6	68

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55	Morphologically controlled synthesis of ionic cesium iodide colloidal nanocrystals and electron beam-induced transformations. <i>RSC Advances</i> , 2018, 8, 18519-18524.	1.7	10
56	Facile Method for the Controllable Synthesis of Cs _x Pb _y Br _z -Based Perovskites. <i>Inorganic Chemistry</i> , 2018, 57, 6206-6209.	1.9	27
57	High-Pressure Study of Perovskite-Like Organometal Halide: Band-Gap Narrowing and Structural Evolution of [NH ₃ -(CH ₂) ₄ -NH ₃]CuCl ₄ . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 500-506.	2.1	65
58	High-Pressure Effects on Hofmann-Type Clathrates: Promoted Release and Restricted Insertion of Guest Molecules. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2745-2750.	2.1	13
59	pH-responsive poly (acrylic acid)-gated mesoporous silica and its application in oral colon targeted drug delivery for doxorubicin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 287-296.	2.5	119
60	High-Pressure Band-Gap Engineering in Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite. <i>Angewandte Chemie</i> , 2017, 129, 16185-16189.	1.6	28
61	High-Pressure Band-Gap Engineering in Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15969-15973.	7.2	200
62	Mild synthesis of monodisperse tin nanocrystals and tin chalcogenide hollow nanostructures. <i>Chemical Communications</i> , 2017, 53, 11001-11004.	2.2	14
63	Synthesis of Onion-Like $\hat{\Gamma}$ -MoN Catalyst for Selective Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19451-19460.	1.5	29
64	Controllable Eu valence for photoluminescence tuning in apatite-typed phosphors by the cation cosubstitution effect. <i>Chemical Communications</i> , 2016, 52, 7376-7379.	2.2	38
65	Structural evolution induced preferential occupancy of designated cation sites by Eu ²⁺ in M ₅ (Si ₃ O ₉) ₂ (M = Sr, Ba, Y, Mn) phosphors. <i>RSC Advances</i> , 2016, 6, 57261-57265.	1.7	74
66	Novel yellowish-green light-emitting Ca ₁₀ (PO ₄) ₆ O:Ce ³⁺ phosphor: structural refinement, preferential site occupancy and color tuning. <i>Chemical Communications</i> , 2016, 52, 3376-3379.	2.2	59
67	Photoluminescence tuning of Ca ₅ (PO ₄) ₃ Cl:Ce ³⁺ /Eu ²⁺ , Tb ³⁺ /Mn ²⁺ phosphors: structure refinement, site occupancy, energy transfer and thermal stability. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1281-1294.	2.7	84
68	Pressure Processing of Nanocube Assemblies Toward Harvesting of a Metastable PbS Phase. <i>Advanced Materials</i> , 2015, 27, 4544-4549.	11.1	61
69	Facet-controlled facilitation of PbS nanoarchitectures by understanding nanocrystal growth. <i>Nanoscale</i> , 2015, 7, 19047-19052.	2.8	9
70	Porous Ice Phases with VI and Distorted VII Structures Constrained in Nanoporous Silica. <i>Nano Letters</i> , 2014, 14, 6554-6558.	4.5	11
71	Energy landscape of self-assembled superlattices of PbSe nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9054-9057.	3.3	29
72	Solvent-Mediated Self-Assembly of Nanocube Superlattices. <i>Journal of the American Chemical Society</i> , 2014, 136, 1352-1359.	6.6	120

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73	High-Index Faceted Noble Metal Nanocrystals. <i>Accounts of Chemical Research</i> , 2013, 46, 191-202.	7.6	501
74	Pressure-Induced Switching between Amorphization and Crystallization in PbTe Nanoparticles. <i>Nano Letters</i> , 2013, 13, 3729-3735.	4.5	33
75	Shape-Control and Electrocatalytic Activity-Enhancement of Pt-Based Bimetallic Nanocrystals. <i>Accounts of Chemical Research</i> , 2013, 46, 1867-1877.	7.6	366
76	Reversible Kirkwood–Alder Transition Observed in Pt ₃ Cu ₂ Nanooctahedron Assemblies under Controlled Solvent Annealing/Drying Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 14043-14049.	6.6	52
77	Timing matters: the underappreciated role of temperature ramp rate for shape control and reproducibility of quantum dot synthesis. <i>Nanoscale</i> , 2012, 4, 3625.	2.8	14
78	Tilted Face-Centered-Cubic Supercrystals of PbS Nanocubes. <i>Nano Letters</i> , 2012, 12, 4409-4413.	4.5	59
79	Low Packing Density Self-Assembled Superstructure of Octahedral Pt ₃ Ni Nanocrystals. <i>Nano Letters</i> , 2011, 11, 2912-2918.	4.5	50
80	Reversal of Hall–Petch Effect in Structural Stability of PbTe Nanocrystals and Associated Variation of Phase Transformation. <i>Nano Letters</i> , 2011, 11, 5531-5536.	4.5	39
81	Synthesis of PbSeTe Single Ternary Alloy and Core/Shell Heterostructured Nanocubes. <i>Journal of the American Chemical Society</i> , 2011, 133, 17590-17593.	6.6	39
82	Self-Assembly of Lead Chalcogenide Nanocrystals. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1126-1136.	1.7	16
83	Superlattices with non-spherical building blocks. <i>Nano Today</i> , 2010, 5, 390-411.	6.2	200
84	Tm ³⁺ and/or Dy ³⁺ doped LaOCl nanocrystalline phosphors for field emission displays. <i>Journal of Materials Chemistry</i> , 2009, 19, 8936.	6.7	124
85	Avidin conjugation to up-conversion phosphor NaYF ₄ :Yb ³⁺ , Er ³⁺ by the oxidation of the oligosaccharide chains. <i>Journal of Nanoparticle Research</i> , 2009, 11, 821-829.	0.8	15
86	Multicolor Tuning of Manganese-Doped ZnS Colloidal Nanocrystals. <i>Langmuir</i> , 2009, 25, 10259-10262.	1.6	87
87	Uniform Colloidal Alkaline Earth Metal Fluoride Nanocrystals: Nonhydrolytic Synthesis and Luminescence Properties. <i>Inorganic Chemistry</i> , 2008, 47, 9509-9517.	1.9	100
88	Shape-Controllable Synthesis and Upconversion Properties of Lutetium Fluoride (Doped with) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 <i>Chemistry C</i> , 2008, 112, 13395-13404.	1.5	110
89	Shape controllable synthesis and upconversion properties of NaYbF ₄ /NaYbF ₄ :Er ³⁺ and YbF ₃ /YbF ₃ :Er ³⁺ microstructures. <i>Journal of Materials Chemistry</i> , 2008, 18, 1353.	6.7	118
90	A Novel and Efficient Route to Se Nano/Microstructures with Controllable Phase and Shape. <i>Crystal Growth and Design</i> , 2008, 8, 3834-3839.	1.4	14

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91	Y ₂ O ₃ :Eu ³⁺ Microspheres: Solvothermal Synthesis and Luminescence Properties. <i>Crystal Growth and Design</i> , 2007, 7, 730-735.	1.4	213
92	Growth of Highly Crystalline CaMoO ₄ :Tb ³⁺ Phosphor Layers on Spherical SiO ₂ Particles via Sol-Gel Process: Structural Characterization and Luminescent Properties. <i>Crystal Growth and Design</i> , 2007, 7, 1797-1802.	1.4	66
93	Synthesis and Characterization of High-Quality ZnS, ZnS:Mn ²⁺ , and ZnS:Mn ²⁺ /ZnS (Core/Shell) Luminescent Nanocrystals. <i>Inorganic Chemistry</i> , 2007, 46, 1354-1360.	1.9	158
94	Fabrication and photoluminescence properties of core-shell structured spherical SiO ₂ @Gd ₂ Ti ₂ O ₇ :Eu ³⁺ phosphors. <i>Journal of Materials Research</i> , 2006, 21, 2232-2240.	1.2	12