

Zewei Quan

List of Publications by Year in descending order

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94
papers

5,749
citations

76326

40
h-index

79698

73
g-index

97
all docs

97
docs citations

97
times ranked

7765
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Index Faceted Noble Metal Nanocrystals. <i>Accounts of Chemical Research</i> , 2013, 46, 191-202.	15.6	501
2	Shape-Control and Electrocatalytic Activity-Enhancement of Pt-Based Bimetallic Nanocrystals. <i>Accounts of Chemical Research</i> , 2013, 46, 1867-1877.	15.6	366
3	Y ₂ O ₃ :Eu ³⁺ Microspheres: Solvothermal Synthesis and Luminescence Properties. <i>Crystal Growth and Design</i> , 2007, 7, 730-735.	3.0	213
4	Superlattices with non-spherical building blocks. <i>Nano Today</i> , 2010, 5, 390-411.	11.9	200
5	High-Pressure Band-Gap Engineering in Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15969-15973.	13.8	200
6	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.	4.0	158
7	0D Cs ₃ Cu ₂ X ₅ (X = I, Br, and Cl) Nanocrystals: Colloidal Syntheses and Optical Properties. <i>Small</i> , 2020, 16, e1905226.	10.0	158
8	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.	14.6	148
9	Self-assembly of anisotropic nanoparticles into functional superstructures. <i>Chemical Society Reviews</i> , 2020, 49, 6002-6038.	38.1	140
10	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
11	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.	13.7	121
12	Solvent-Mediated Self-Assembly of Nanocube Superlattices. <i>Journal of the American Chemical Society</i> , 2014, 136, 1352-1359.	13.7	120
13	Lithiophilic Ag Nanoparticle Layer on Cu Current Collector toward Stable Li Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8148-8154.	8.0	120
14	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.	5.0	119
15	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
16	Trimetallic Synergy in Intermetallic PtSnBi Nanoplates Boosts Formic Acid Oxidation. <i>Advanced Materials</i> , 2019, 31, e1903683.	21.0	112
17	A Tensile-Strained Pt-Rh Single-Atom Alloy Remarkably Boosts Ethanol Oxidation. <i>Advanced Materials</i> , 2021, 33, e2008508.	21.0	111
18	Shape-Controllable Synthesis and Upconversion Properties of Lutetium Fluoride (Doped with) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 T Chemistry C, 2008, 112, 13395-13404.	3.1	110

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19	Novel Bi ^x -Doped Amorphous SnO ₂ Nanoshells for Efficient Electrochemical CO ₂ Reduction into Formate at Low Overpotentials. <i>Advanced Materials</i> , 2020, 32, e2002822.	21.0	104
20	Uniform Colloidal Alkaline Earth Metal Fluoride Nanocrystals: Nonhydrolytic Synthesis and Luminescence Properties. <i>Inorganic Chemistry</i> , 2008, 47, 9509-9517.	4.0	100
21	Multicolor Tuning of Manganese-Doped ZnS Colloidal Nanocrystals. <i>Langmuir</i> , 2009, 25, 10259-10262.	3.5	87
22	Synthesis of Lead-free CsGeI ₃ Perovskite Colloidal Nanocrystals and Electron Beam-induced Transformations. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1654-1659.	3.3	86
23	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.	5.5	84
24	SnPO ₃ nanoplates/graphene oxide composite for novel potassium-ion battery anode. <i>Chemical Engineering Journal</i> , 2019, 370, 677-683.	12.7	77
25	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.	3.6	74
26	Integrated Afterglow and Self-Trapped Exciton Emissions in Hybrid Metal Halides for Anti-Counterfeiting Applications. <i>Advanced Materials</i> , 2022, 34, e2200607.	21.0	73
27	Pressure-Induced Phase Engineering of Gold Nanostructures. <i>Journal of the American Chemical Society</i> , 2018, 140, 15783-15790.	13.7	68
28	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.	3.0	66
29	Pressure-Engineered Photoluminescence Tuning in Zero-Dimensional Lead Bromide Trimer Clusters. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2583-2587.	13.8	66
30	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.	4.6	65
31	Pressure Processing of Nanocube Assemblies Toward Harvesting of a Metastable PbS Phase. <i>Advanced Materials</i> , 2015, 27, 4544-4549.	21.0	61
32	Tilted Face-Centered-Cubic Supercrystals of PbS Nanocubes. <i>Nano Letters</i> , 2012, 12, 4409-4413.	9.1	59
33	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.	4.1	59
34	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.	13.7	59
35	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.	13.7	52
36	Hybrid Protective Layer for Stable Sodium Metal Anodes at High Utilization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37693-37700.	8.0	51

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37	Low Packing Density Self-Assembled Superstructure of Octahedral Pt ₃ Ni Nanocrystals. Nano Letters, 2011, 11, 2912-2918.	9.1	50
38	Yolk-shell structured SnSe as a high-performance anode for Na-ion batteries. Inorganic Chemistry Frontiers, 2019, 6, 562-565.	6.0	48
39	Poly(vinylidene difluoride) coating on Cu current collector for high-performance Na metal anode. Energy Storage Materials, 2020, 24, 588-593.	18.0	48
40	High Pressure Structural and Optical Properties of Two-Dimensional Hybrid Halide Perovskite (CH ₃ NH ₃) ₃ Bi ₂ Br ₉ . Inorganic Chemistry, 2019, 58, 1621-1626.	4.0	46
41	Highly Luminescent Metal-Free Perovskite Single Crystal for Biocompatible X-Ray Detector to Attain Highest Sensitivity. Advanced Materials, 2021, 33, e2102190.	21.0	46
42	Metal halide perovskites under compression. Journal of Materials Chemistry A, 2019, 7, 16089-16108.	10.3	42
43	3D Printing of Hierarchical Graphene Lattice for Advanced Na Metal Anodes. ACS Applied Energy Materials, 2019, 2, 3869-3877.	5.1	40
44	Reversal of Hall-Petch Effect in Structural Stability of PbTe Nanocrystals and Associated Variation of Phase Transformation. Nano Letters, 2011, 11, 5531-5536.	9.1	39
45	Synthesis of PbSeTe Single Ternary Alloy and Core/Shell Heterostructured Nanocubes. Journal of the American Chemical Society, 2011, 133, 17590-17593.	13.7	39
46	Controllable Eu valence for photoluminescence tuning in apatite-typed phosphors by the cation cosubstitution effect. Chemical Communications, 2016, 52, 7376-7379.	4.1	38
47	Understanding Fe ₃ O ₄ Nanocube Assembly with Reconstruction of a Consistent Superlattice Phase Diagram. Journal of the American Chemical Society, 2019, 141, 3198-3206.	13.7	37
48	SnO ₂ patched ultrathin PtRh nanowires as efficient catalysts for ethanol electrooxidation. Journal of Materials Chemistry A, 2019, 7, 27377-27382.	10.3	36
49	Trace Pd modified intermetallic PtBi nanoplates towards efficient formic acid electrocatalysis. Journal of Materials Chemistry A, 2021, 9, 9602-9608.	10.3	36
50	Colloidal syntheses of zero-dimensional Cs ₄ SnX ₆ (X = Br, I) nanocrystals with high emission efficiencies. Chemical Communications, 2020, 56, 387-390.	4.1	35
51	Excitation-Dependent Emission Color Tuning of 0D Cs ₂ InBr ₅ ·H ₂ O at High Pressure. Advanced Functional Materials, 2021, 31, 2104923.	14.9	35
52	Self-Trapped Exciton Emission with High Thermal Stability in Antimony-Doped Hybrid Manganese Chloride. Advanced Optical Materials, 2022, 10, .	7.3	34
53	Pressure-Induced Switching between Amorphization and Crystallization in PbTe Nanoparticles. Nano Letters, 2013, 13, 3729-3735.	9.1	33
54	Ni ₃ N Nanocrystals Decorated Reduced Graphene Oxide with High Ionic Conductivity for Stable Lithium Metal Anode. ACS Applied Energy Materials, 2019, 2, 2692-2698.	5.1	30

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55	Energy landscape of self-assembled superlattices of PbSe nanocrystals. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9054-9057.	7.1	29
56	Synthesis of Onion-Like γ -MoN Catalyst for Selective Hydrogenation. Journal of Physical Chemistry C, 2017, 121, 19451-19460.	3.1	29
57	High-Pressure Band-Gap Engineering in Lead-Free $\text{Cs}_2\text{AgBiBr}_6$ Double Perovskite. Angewandte Chemie, 2017, 129, 16185-16189.	2.0	28
58	Thermally reduced graphene paper with fast Li ion diffusion for stable Li metal anode. Electrochimica Acta, 2019, 294, 413-422.	5.2	28
59	Facile Method for the Controllable Synthesis of $\text{Cs}_x\text{Pb}_y\text{Br}_z$ -Based Perovskites. Inorganic Chemistry, 2018, 57, 6206-6209.	4.0	27
60	Structure and Photoluminescence Transformation in Hybrid Manganese(II) Chlorides. Inorganic Chemistry, 2021, 60, 6600-6606.	4.0	27
61	Hexagonal PtBi Intermetallic Inlaid with Sub-Monolayer Pb Oxyhydroxide Boosts Methanol Oxidation. Small, 2022, 18, e2107803.	10.0	24
62	Dangling Octahedra Enable Edge States in 2D Lead Halide Perovskites. Advanced Materials, 2022, 34, e2201666.	21.0	22
63	Selected Negative Linear Compressibilities in the Metal-Organic Framework of $[\text{Cu}(4,4\text{-bpy})_2(\text{H}_2\text{O})_2]\text{SiF}_6$. Inorganic Chemistry, 2020, 59, 1715-1722.	4.0	19
64	Tin-based nanomaterials: colloidal synthesis and battery applications. Chemical Communications, 2019, 55, 8683-8694.	4.1	18
65	Ordered mesoporous silver superstructures with SERS hot spots. Chemical Communications, 2019, 55, 7982-7985.	4.1	18
66	One-nanometer-thick platinum-based nanowires with controllable surface structures. Nano Research, 2019, 12, 1721-1726.	10.4	18
67	Controlled Synthesis of PtNi Hexapods for Enhanced Oxygen Reduction Reaction. Frontiers in Chemistry, 2018, 6, 468.	3.6	17
68	Supercrystallographic Reconstruction of 3D Nanorod Assembly with Collectively Anisotropic Upconversion Fluorescence. Nano Letters, 2020, 20, 7367-7374.	9.1	17
69	Self-Assembly of Lead Chalcogenide Nanocrystals. Chemistry - an Asian Journal, 2011, 6, 1126-1136.	3.3	16
70	Thermochromism and piezochromism of an atomically precise high-nuclearity silver sulfide nanocluster. Chemical Communications, 2021, 57, 2372-2375.	4.1	16
71	Avidin conjugation to up-conversion phosphor $\text{NaYF}_4:\text{Yb}^{3+}, \text{Er}^{3+}$ by the oxidation of the oligosaccharide chains. Journal of Nanoparticle Research, 2009, 11, 821-829.	1.9	15
72	Generalized Synthesis of Uniform Metal Nanoparticles Assisted with Tungsten Hexacarbonyl. Chemistry of Materials, 2019, 31, 4325-4329.	6.7	15

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73	Shape-directed self-assembly of nanodumbbells into superstructure polymorphs. <i>Chemical Science</i> , 2020, 11, 4065-4073.	7.4	15
74	Pressure-Engineered Photoluminescence Tuning in Zero-Dimensional Lead Bromide Trimer Clusters. <i>Angewandte Chemie</i> , 2021, 133, 2615-2619.	2.0	15
75	A Novel and Efficient Route to Se Nano/Microstructures with Controllable Phase and Shape. <i>Crystal Growth and Design</i> , 2008, 8, 3834-3839.	3.0	14
76	Timing matters: the underappreciated role of temperature ramp rate for shape control and reproducibility of quantum dot synthesis. <i>Nanoscale</i> , 2012, 4, 3625.	5.6	14
77	Mild synthesis of monodisperse tin nanocrystals and tin chalcogenide hollow nanostructures. <i>Chemical Communications</i> , 2017, 53, 11001-11004.	4.1	14
78	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.	6.0	14
79	Facile Synthesis of Uniform Sn _{1-x} Ge _x Alloy Nanocrystals with Tunable Bandgap. <i>Chemistry of Materials</i> , 2019, 31, 2248-2252.	6.7	14
80	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.	4.6	13
81	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.	3.1	13
82	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.	2.6	12
83	Porous Ice Phases with VI and Distorted VII Structures Constrained in Nanoporous Silica. <i>Nano Letters</i> , 2014, 14, 6554-6558.	9.1	11
84	Thickness-Dependent Structural Stability and Anisotropy of Black Phosphorus. <i>Advanced Electronic Materials</i> , 2019, 5, 1800712.	5.1	11
85	Binary Nanoparticle Superlattices for Plasmonically Modulating Upconversion Luminescence. <i>Small</i> , 2020, 16, e2002066.	10.0	11
86	Morphologically controlled synthesis of ionic cesium iodide colloidal nanocrystals and electron beam-induced transformations. <i>RSC Advances</i> , 2018, 8, 18519-18524.	3.6	10
87	Facet-controlled facilitation of PbS nanoarchitectures by understanding nanocrystal growth. <i>Nanoscale</i> , 2015, 7, 19047-19052.	5.6	9
88	Pressure-Induced Amorphization and Crystallization of Heterophase Pd Nanostructures. <i>Small</i> , 2022, 18, e2106396.	10.0	9
89	Directing Gold Nanoparticles into Free-Standing Honeycomb-Like Ordered Mesoporous Superstructures. <i>Small</i> , 2019, 15, e1901304.	10.0	8
90	Rare Earth Hydroxide as a Precursor for Controlled Fabrication of Uniform $\text{I}^2\text{-NaYF}_4$ Nanoparticles: A Novel, Low Cost, and Facile Method. <i>Molecules</i> , 2019, 24, 357.	3.8	5

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91	Controllable synthesis of platinum-tin intermetallic nanoparticles with high electrocatalytic performance for ethanol oxidation. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1143-1151.	6.0	5
92	Zero-dimensional hybrid binuclear manganese chloride with thermally stable yellow emission. <i>Chemical Communications</i> , 2022, 58, 6926-6929.	4.1	5
93	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.	5.1	2
94	Superstructures: Directing Gold Nanoparticles into Free-Standing Honeycomb-Like Ordered Mesoporous Superstructures (<i>Small</i> 31/2019). <i>Small</i> , 2019, 15, 1970165.	10.0	0