Daoli Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

74	2,157	257101	243296
papers	citations	24 h-index	44 g-index

74	74	74	2626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient and Reabsorptionâ€Free Radioluminescence in Cs₃Cu₂I₅ Nanocrystals with Selfâ€Trapped Excitons. Advanced Science, 2020, 7, 2000195.	5.6	282
2	Photophysics in Cs₃Cu₂X₅ (X = Cl, Br, or I): Highly Luminescent Self-Trapped Excitons from Local Structure Symmetrization. Chemistry of Materials, 2020, 32, 3462-3468.	3.2	177
3	Oriented graphene nanoribbons embedded in hexagonal boron nitride trenches. Nature Communications, 2017, 8, 14703.	5.8	119
4	Highly Luminescent Zero-Dimensional Organic Copper Halides for X-ray Scintillation. Journal of Physical Chemistry Letters, 2021, 12, 6919-6926.	2.1	95
5	Cationâ€Exchange Synthesis of Highly Monodisperse PbS Quantum Dots from ZnS Nanorods for Efficient Infrared Solar Cells. Advanced Functional Materials, 2020, 30, 1907379.	7.8	80
6	Towards chirality control of graphene nanoribbons embedded in hexagonal boron nitride. Nature Materials, 2021, 20, 202-207.	13.3	80
7	Isolating hydrogen in hexagonal boron nitride bubbles by a plasma treatment. Nature Communications, 2019, 10, 2815.	5.8	63
8	Microstructure and electrical properties of antimony-doped tin oxide thin film deposited by solâ€“gel process. Materials Chemistry and Physics, 2006, 98, 353-357.	2.0	61
9	Facet Control for Trapâ€State Suppression in Colloidal Quantum Dot Solids. Advanced Functional Materials, 2020, 30, 2000594.	7.8	60
10	Efficient Dual-Band White-Light Emission with High Color Rendering from Zero-Dimensional Organic Copper Iodide. ACS Applied Materials & Interfaces, 2021, 13, 22749-22756.	4.0	57
11	Surface morphologies and properties of pure and antimony-doped tin oxide films derived by solâ€“gel dip-coating processing. Materials Chemistry and Physics, 2006, 100, 275-280.	2.0	53
12	Controlled synthesis and photostability of blue emitting Cs₃Bi₂Br₉ perovskite nanocrystals by employing weak polar solvents at room temperature. Journal of Materials Chemistry C, 2019, 7, 3688-3695.	2.7	50
13	Solution-processed solar-blind deep ultraviolet photodetectors based on strongly quantum confined ZnS quantum dots. Journal of Materials Chemistry C, 2018, 6, 11266-11271.	2.7	46
14	Combination of Cation Exchange and Quantized Ostwald Ripening for Controlling Size Distribution of Lead Chalcogenide Quantum Dots. Chemistry of Materials, 2017, 29, 3615-3622.	3.2	44
15	Colloidal synthesis of lead-free all-inorganic cesium bismuth bromide perovskite nanoplatelets. CrystEngComm, 2018, 20, 7473-7478.	1.3	44
16	One-pot synthesis of hydrophilic CuInS₂ and CuInS₂â€“ZnS colloidal quantum dots. Journal of Materials Chemistry C, 2014, 2, 4812-4817.	2.7	43
17	Preparation and characteristic of the thermistor materials in the thick-film integrated temperatureâ€“humidity sensor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 523-526.	1.7	40
18	Realizing Near-Unity Quantum Efficiency of Zero-Dimensional Antimony Halides through Metal Halide Structural Modulation. ACS Applied Materials & Interfaces, 2021, 13, 58908-58915.	4.0	36

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19	Comparative study of ZnSe thin films deposited from modified chemical bath solutions with ammonia-containing and ammonia-free precursors. Materials Chemistry and Physics, 2010, 120, 456-460.	2.0	34
20	Efficiently Passivated PbSe Quantum Dot Solids for Infrared Photovoltaics. ACS Nano, 2021, 15, 3376-3386.	7.3	32
21	Quantum dot PbS_{0.9}Se_{0.1}/TiO₂heterojunction solar cells. Nanotechnology, 2012, 23, 405401.	1.3	31
22	Air stability of TiO2/PbS colloidal nanoparticle solar cells and its impact on power efficiency. Applied Physics Letters, 2011, 99, 063512.	1.5	29
23	In Situ Tuning the Reactivity of Selenium Precursor To Synthesize Wide Range Size, Ultralarge-Scale, and Ultrastable PbSe Quantum Dots. Chemistry of Materials, 2018, 30, 982-989.	3.2	27
24	Negative differential resistance behavior in phosphorus-doped armchair graphene nanoribbon junctions. Journal of Applied Physics, 2014, 115, .	1.1	26
25	Low-temperature sintering and microwave dielectric properties of (Zr,Sn)TiO4 ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 416-420.	1.7	24
26	Low cost and large scale synthesis of PbS quantum dots with hybrid surface passivation. CrystEngComm, 2017, 19, 946-951.	1.3	24
27	Enhanced Photoluminescence of Colloidal Leadâ€Free Double Perovskite Cs₂Ag_{1â^'}_xNa_xInCl₆ Nanocrystals Doped with Manganese. Advanced Optical Materials, 2021, 9, 2001866.	3.6	24
28	Optical and electrical properties of zinc oxide thin films with low resistivity via Liâ€“N dual-acceptor doping. Journal of Alloys and Compounds, 2011, 509, 5962-5968.	2.8	22
29	Phosphine-free synthesis and shape evolution of MoSe₂ nanoflowers for electrocatalytic hydrogen evolution reactions. CrystEngComm, 2018, 20, 2491-2498.	1.3	21
30	Highly Luminescent Zero-Dimensional Organic Copper Halide with Low-Loss Optical Waveguides and Highly Polarized Emission. , 2022, 4, 1446-1452.		21
31	A facile and rapid synthesis of lead sulfide colloidal quantum dots using in situ generated H2S as the sulfur source. CrystEngComm, 2013, 15, 2532.	1.3	20
32	Photoluminescence and Growth Kinetics of High-Quality Indium Arsenide and InAs-Based Core/Shell Colloidal Nanocrystals Synthesized Using Arsine (AsH₃) Generated via Zinc Arsenide as the Arsenic Source. Chemistry of Materials, 2010, 22, 1579-1584.	3.2	19
33	Phosphorus-doping-induced rectifying behavior in armchair graphene nanoribbons devices. Journal of Applied Physics, 2014, 115, .	1.1	18
34	The electronic transport behavior of hybridized zigzag graphene and boron nitride nanoribbons. Journal of Applied Physics, 2014, 115, .	1.1	18
35	Singleâ€Component Whiteâ€Light Emitters with Excellent Color Rendering Indexes and High Photoluminescence Quantum Efficiencies. Advanced Optical Materials, 2022, 10, .	3.6	18
36	Highly luminescent zero-dimensional lead-free manganese halides for Î²-ray scintillation. Nano Research, 2022, 15, 8486-8492.	5.8	18

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37	Effects of porosity on the electrical characteristics of current-limiting BaTiO3-based positive-temperature-coefficient (PTC) ceramic thermistors coated with electroless nickelâ€“phosphorous electrode. Sensors and Actuators A: Physical, 2004, 112, 94-100.	2.0	17
38	Fabrication and characterization of the multilayered PTCR ceramic thermistors by slip casting. Sensors and Actuators A: Physical, 2004, 116, 450-454.	2.0	17
39	Microstructure, Morphology, and Ultraviolet Emission of Zinc Oxide Nanopolycrystalline Films by the Modified Successive Ionic Layer Adsorption and Reaction Method. Journal of the American Ceramic Society, 2010, 93, 3284-3290.	1.9	17
40	First-principles study of the electronic transport properties in (GaAs) (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 637 Td (xmlns:m nanocluster-based molecular junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3272-3276.	0.9	17
41	Self-assembly and photoactivation of blue luminescent CsPbBr₃ mesocrystals synthesized at ambient temperature. Journal of Materials Chemistry C, 2018, 6, 1701-1708.	2.7	17
42	Efficient Infrared Solar Cells Employing Quantum Dot Solids with Strong Interâ€Đot Coupling and Efficient Passivation. Advanced Functional Materials, 2021, 31, 2006864.	7.8	16
43	Microwave dielectric properties of (PbCa)(FeNbZr)O3 ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 403-407.	1.7	15
44	Nonvolatile Resistive Switching Memory Device Employing CdSe/CdS Core/Shell Quantum Dots as an Electrode Modification Layer. ACS Applied Electronic Materials, 2020, 2, 827-837.	2.0	15
45	PTCR characteristic of gelcast BaTiO3 ceramic thermistor. Sensors and Actuators A: Physical, 2001, 88, 67-70.	2.0	14
46	Analysis on the aging characteristics of PTCR of donor-doped barium titanate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 394-398.	1.7	14
47	Synthesis and growth kinetics of high quality InAs nanocrystals using in situ generated AsH₃as the arsenic source. CrystEngComm, 2010, 12, 591-594.	1.3	14
48	Computer simulation of grain growth of intermediateâ€”and final-stage sintering and Ostwald ripening of BaTiO3-based PTCR ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 428-432.	1.7	12
49	Growth orientation and shape evolution of colloidal lead selenide nanocrystals with different shapes. CrystEngComm, 2010, 12, 3243.	1.3	11
50	The kinetics of initial stage in sintering process of BaTiO3-based PTCR ceramics and its computer simulation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 88-92.	1.7	9
51	A new method for microwave dielectric measurement of low loss ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 390-393.	1.7	9
52	Ultraviolet emission of ZnO nano-polycrystalline films by modified successive ionic layer adsorption and reaction technique. Journal of Sol-Gel Science and Technology, 2010, 54, 165-173.	1.1	9
53	Ultraviolet Emission and Electrical Properties of Aluminumâ€Đoped Zinc Oxide Thin Films with Preferential Câ€Axis Orientation. Journal of the American Ceramic Society, 2010, 93, 3291-3298.	1.9	9
54	Temporal evolutions of the photoluminescence quantum yields of colloidal InP, InAs and their core/shell nanocrystals. Journal of Materials Chemistry C, 2014, 2, 4442-4448.	2.7	8

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55	Directional etching for high aspect ratio nano-trenches on hexagonal boron nitride by catalytic metal particles. 2D Materials, 2022, 9, 025015.	2.0	8
56	Theoretical Investigation of Structural and Magnetic Properties of Zn_nSe_n (n=6â€“13) Nanoclusters Doped with Manganese Atoms. Journal of the American Ceramic Society, 2011, 94, 759-764.	1.9	7
57	The ac electrical failure behaviors and mechanisms of current limiting BaTiO3-based positive-temperature-coefficient (PTC) ceramic thermistors coated with electroless nickelâ€“phosphorous electrode. Sensors and Actuators A: Physical, 2002, 101, 123-131.	2.0	6
58	Controlled synthesis of brightly fluorescent CH₃NH₃PbBr₃perovskite nanocrystals employing Pb(C₁₇H₃₃COO)₂as the sole lead source. RSC Advances, 2018, 8, 1132-1139.	1.7	6
59	Influences of the electroless nickel electrode on the electrical characteristics of BaTiO3-based PTCR ceramics. Journal of the European Ceramic Society, 2001, 21, 1101-1105.	2.8	5
60	Dependence of the Photoluminescence of Hydrophilic CuInS2 Colloidal Quantum Dots on Cu-to-In Molar Ratios. Journal of Electronic Materials, 2019, 48, 286-295.	1.0	5
61	Synthesis of Highly Luminescent InP/ZnS Quantum Dots with Suppressed Thermal Quenching. Coatings, 2021, 11, 581.	1.2	4
62	Efficient Enhancement of Stability and Luminescence of Three-Dimensional CsPbBr₃ Nanoparticles via Ligand-Triggered Transformation into Zero-Dimensional Cs₄PbBr₆ Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 4172-4181.	1.5	4
63	Investigation into Texture, Preferential Orientation, and Optical Properties of Zinc Oxide Nanopolycrystalline Thin Films Deposited by the Solâ€“Gel Technique on Different Substrates. Journal of Electronic Materials, 2011, 40, 459-465.	1.0	3
64	Resolution characteristics of graded band-gap reflection-mode AlGaAs/GaAs photocathodes. Optics Communications, 2015, 356, 278-281.	1.0	3
65	Phosphine-free synthesis and optical stabilities of composition-tuneable monodisperse ternary PbSe_{1â^'x}S_x alloyed nanocrystals via cation exchange. CrystEngComm, 2018, 20, 2519-2527.	1.3	3
66	Thermal Properties of TiO₂/PbS Nanoparticle Solar Cells. Nanomaterials and Nanotechnology, 2012, 2, 18.	1.2	2
67	Metallic behavior and negative differential resistance properties of (InAs)n(nâ€‰=â€‰2â€‰â^'â€‰4) molecule cluster junctionsviaa combined nonâ€“equilibrium Green's function and density functional theory study. Journal of Applied Physics, 2014, 115, 233712.	1.1	2
68	Electronic transport behaviours of lead chalcogenide (PbE)n (E = S and Se) nanocluster junctions by ab initio simulation. RSC Advances, 2014, 4, 14221-14226.	1.7	2
69	Influence of ZrO2 and SnO2 on the synthesis of Ba2Ti9O20 powders. Ceramics International, 2004, 30, 671-673.	2.3	1
70	The growth kinetics of colloidal InP nanocrystals. , 2008, , .		0
71	Synthesis and studies of spindle-shaped lead selenide nanocrystals. , 2009, , .		0
72	Dynamics of graded-composition and graded-doping semiconductor nanowires under local carrier modulation. Optics Express, 2016, 24, 24347.	1.7	0

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73	Electron Beam Induced Formation of Hollow RbBr Nanocubes. Journal of Physical Chemistry C, 2018, 122, 28347-28350.	1.5	0
74	Transparent Thin-Film Transistors Based on c-Axis Oriented, Vertically Aligned ZnO Nanorod Arrays via Solution Processing. Journal of Electronic Materials, 2018, 47, 6091-6100.	1.0	0