

Ruiqian Guo

List of Publications by Year in descending order

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63
papers

1,601
citations

304743

22
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315739

38
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65
all docs

65
docs citations

65
times ranked

1435
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Bandwidth White-Light System Combining a Micro-LED with Perovskite Quantum Dots for Visible Light Communication. ACS Applied Materials & Interfaces, 2018, 10, 5641-5648.	8.0	194
2	Hydrogen Peroxide-Treated Carbon Dot Phosphor with a Bathochromic-Shifted, Aggregation-Enhanced Emission for Light-Emitting Devices and Visible Light Communication. Advanced Science, 2018, 5, 1800369.	11.2	119
3	Highly Emissive Carbon Dots in Solid State and Their Applications in Light-Emitting Devices and Visible Light Communication. ACS Sustainable Chemistry and Engineering, 2019, 7, 9301-9308.	6.7	81
4	Component regulation and crystallization mechanism of CsPbBr ₃ /Cs ₄ PbBr ₆ perovskite composite quantum dots-embedded borosilicate glass for light emitting application. Applied Surface Science, 2020, 512, 145655.	6.1	65
5	Ultraviolet-pumped white light emissive carbon dot based phosphors for light-emitting devices and visible light communication. Nanoscale, 2019, 11, 3489-3494.	5.6	61
6	Amphipathic carbon dots with solvent-dependent optical properties and sensing application. Optical Materials, 2019, 89, 224-230.	3.6	52
7	Highly luminescent water-soluble AgInS ₂ /ZnS quantum dots-hydrogel composites for warm white LEDs. Journal of Alloys and Compounds, 2020, 824, 153896.	5.5	52
8	Recent Advances in Blue Perovskite Quantum Dots for Light-Emitting Diodes. Small, 2022, 18, e2103527.	10.0	43
9	Microwave-assisted aqueous synthesis of transition metal ions doped ZnSe/ZnS core/shell quantum dots with tunable white-light emission. Applied Surface Science, 2015, 351, 655-661.	6.1	40
10	Surface States Induced Photoluminescence Enhancement of Nitrogen-Doped Carbon Dots Via Post-Treatments. Nanoscale Research Letters, 2019, 14, 172.	5.7	40
11	Facile Synthesis and Optical Properties of CsPbX ₃ /ZIF-8 Composites for Wide-Color-Gamut Display. Nanomaterials, 2019, 9, 832.	4.1	38
12	Tunable emission of Cu (Mn)-doped ZnInS quantum dots via dopant interaction. Journal of Colloid and Interface Science, 2017, 506, 27-35.	9.4	33
13	A facile route for highly efficient color-tunable Cu-Ga-Se/ZnSe quantum dots. Applied Surface Science, 2018, 456, 876-881.	6.1	33
14	49.25% efficient cyan emissive sulfur dots via a microwave-assisted route. RSC Advances, 2020, 10, 17266-17269.	3.6	32
15	Spectral optimization of color temperature tunable white LEDs based on perovskite quantum dots for ultrahigh color rendition. Optical Materials Express, 2017, 7, 3065.	3.0	31
16	Lead oxide enables lead volatilization pollution inhibition and phase purity modulation in perovskite quantum dots embedded borosilicate glass. Journal of the European Ceramic Society, 2022, 42, 258-265.	5.7	31
17	Thioacetamide-ligand-mediated synthesis of CsPbBr ₃ -CsPbBr ₃ homostructured nanocrystals with enhanced stability. Journal of Materials Chemistry C, 2021, 9, 11349-11357.	5.5	31
18	Tunable emission and morphology control of the Cu-In-S/ZnS quantum dots with dual stabilizer via microwave-assisted aqueous synthesis. Journal of Alloys and Compounds, 2017, 729, 1-8.	5.5	29

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19	Color-tunable optical properties of cadmium-free transition metal ions doped InP/ZnS quantum dots. <i>Journal of Luminescence</i> , 2019, 212, 264-270.	3.1	29
20	Aligned growth of ZnO nanowires by NAPLD and their optical characterizations. <i>Applied Surface Science</i> , 2009, 255, 9671-9675.	6.1	28
21	Controllable synthesis of dual emissive Ag:InP/ZnS quantum dots with high fluorescence quantum yield. <i>Applied Surface Science</i> , 2017, 423, 686-694.	6.1	27
22	Density-Controlled Growth of ZnO Nanowires Via Nanoparticle-Assisted Pulsed-Laser Deposition and Their Optical Properties. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 741.	1.5	25
23	Dual-emission of silicon nanoparticles encapsulated lanthanide-based metal-organic frameworks for ratiometric fluorescence detection of bacterial spores. <i>Mikrochimica Acta</i> , 2020, 187, 666.	5.0	25
24	Dual-Emissive and Color-Tunable Mn-Doped InP/ZnS Quantum Dots via a Growth-Doping Method. <i>Nanoscale Research Letters</i> , 2018, 13, 170.	5.7	23
25	A fluorescent probe for Cd ²⁺ detection based on the aggregation-induced emission enhancement of aqueous Zn ²⁺ Ag ⁺ In ³⁺ S quantum dots. <i>Analytical Methods</i> , 2019, 11, 2559-2564.	2.7	23
26	Synergistic Effect of Halogen Ions and Shelling Temperature on Anion Exchange Induced Interfacial Restructuring for Highly Efficient Blue Emissive InP/ZnS Quantum Dots. <i>Small</i> , 2022, 18, e2108120.	10.0	23
27	Two-step synthesis of highly emissive C/ZnO hybridized quantum dots with a broad visible photoluminescence. <i>Applied Surface Science</i> , 2016, 364, 710-717.	6.1	22
28	Narrow band-gap cathode Fe ₃ (PO ₄) ₂ for sodium-ion battery with enhanced sodium storage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 591, 124561.	4.7	22
29	Emission tuning of highly efficient quaternary Ag-Cu-Ga-Se/ZnSe quantum dots for white light-emitting diodes. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 307-315.	9.4	22
30	Microwave-Assisted Heating Method toward Multicolor Quantum Dot-Based Phosphors with Much Improved Luminescence. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27160-27170.	8.0	21
31	Highly luminescent copper gallium selenium based multicomponent quantum dots: Formation process and tunable white-light emission. <i>Applied Surface Science</i> , 2021, 538, 147907.	6.1	21
32	Enhanced tunable dual emission of Cu:InP/ZnS quantum dots enabled by introducing Ag ions. <i>Applied Surface Science</i> , 2019, 493, 605-612.	6.1	20
33	Gadolinium-doped carbon dots with high-performance in dual-modal molecular imaging. <i>Analytical Methods</i> , 2021, 13, 2442-2449.	2.7	20
34	Substrate effects on ZnO nanostructure growth via nanoparticle-assisted pulsed-laser deposition. <i>Applied Surface Science</i> , 2008, 254, 3100-3104.	6.1	19
35	A Review of Modification Methods of Solid Electrolytes for All-Solid-State Sodium-Ion Batteries. <i>Energy Technology</i> , 2021, 9, 2000682.	3.8	19
36	Synthesis and structure design of In ³⁺ /VI quantum dots for white light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2022, 6, 418-429.	5.9	18

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37	Quantum dots-hydrogel composites for biomedical applications. <i>Chinese Chemical Letters</i> , 2022, 33, 1245-1253.	9.0	17
38	Effective Approaches of Improving the Performance of Chalcogenide Solid Electrolytes for All-Solid-State Sodium-Ion Batteries. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	16
39	Optical and Morphological Properties of Single-Phased and Dual-Emissive InP/ZnS Quantum Dots via Transition Metallic and Inorganic Ions. <i>Langmuir</i> , 2020, 36, 10244-10250.	3.5	15
40	A ratiometric fluorescent probe based on PCN-224 for rapid and ultrasensitive detection of copper ions. <i>Composites Communications</i> , 2022, 33, 101221.	6.3	14
41	Rapid large-scale synthesis of highly emissive solid-state metal halide perovskite quantum dots across the full visible spectrum. <i>Optics and Laser Technology</i> , 2021, 143, 107369.	4.6	13
42	Highly efficient Mn-doped CsPb(Br/Cl) ₃ mixed-halide perovskite via a simple large-scale synthesis method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 273, 115426.	3.5	12
43	Exploring novel ligands with strong electron delocalization for high-performance blue CsPbBr ₃ perovskite nanoplatelets. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9834-9840.	5.5	12
44	Role of organic cation orientation in formamidine based perovskite materials. <i>Scientific Reports</i> , 2021, 11, 20433.	3.3	11
45	Photometric Optimization of Color Temperature Tunable Quantum Dots Converted White LEDs for Excellent Color Rendition. <i>IEEE Photonics Journal</i> , 2016, 8, 1-11.	2.0	9
46	Super-high color rendering properties of color temperature tunable white LEDs based on high quality InP/ZnS quantum dots via myristic acid passivation and Ag doping. <i>Optics Communications</i> , 2018, 418, 46-50.	2.1	9
47	Simple Structural Descriptor Obtained from Symbolic Classification for Predicting the Oxygen Vacancy Defect Formation of Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11758-11767.	8.0	9
48	Corrosion resistant solid-state carbon dots@silicalite-1 composite for latent fingerprints detection. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161660.	5.5	8
49	Color-converted white light-emitting diodes based on III-VI quantum dots: Package strategies and stability promotion. <i>Applied Materials Today</i> , 2022, 29, 101585.	4.3	8
50	Tunable emission of cadmium-free transition metal (Cu, Mn, Ag) co-doped ZnInS/ZnS core-shell quantum dots. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1611-1617.	4.2	7
51	White-Light GaN-1/4LEDs Employing Green/Red Perovskite Quantum Dots as Color Converters for Visible Light Communication. <i>Nanomaterials</i> , 2022, 12, 627.	4.1	7
52	Investigating the Electrochemical Performance of Smart Self-Powered Bionic Skin Fragment Based on Bioelectricity Generation. <i>Advanced Materials Technologies</i> , 2021, 6, 2000848.	5.8	5
53	AgInS ₂ /ZnS quantum dots for noninvasive cervical cancer screening with intracellular pH sensing using fluorescence lifetime imaging microscopy. <i>Nano Research</i> , 2022, 15, 5193-5204.	10.4	5
54	One-step synthesis of high-quality vanadium disulfide quantum dots for long-term lysosome-targetable imaging. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130544.	7.8	4

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55	Design and Mechanism of a Self-Powered and Disintegration-Regeneration Power Supply with Cold Resistance. <i>Advanced Materials</i> , 2021, 33, e2101239.	21.0	2
56	Organic Light-Emitting Diodes Array With High-Luminance Stability and Low-Lateral Leakage by Hybridized Plasma Treatments. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 1107-1114.	3.0	2
57	An effective optics-electrochemistry approach to random packing density of non-equiaxed ellipsoids. <i>Materialia</i> , 2020, 12, 100750.	2.7	1
58	Novel Solid-State Sodium-Ion Battery with Wide Band Gap NaTi ₂ (PO ₄) ₃ Nanocrystal Electrolyte. <i>ACS Omega</i> , 2021, 6, 11537-11544.	3.5	1
59	High-Voltage Cathode \pm -Fe ₂ O ₃ Nanoceramics for Rechargeable Sodium-Ion Batteries. <i>ACS Omega</i> , 2021, 6, 12615-12622.	3.5	1
60	Cation Crosslinking-Induced Stable Copper Nanoclusters Powder as Latent Fingerprints Marker. <i>Nanomaterials</i> , 2021, 11, 3371.	4.1	1
61	Aligned growth of ZnO nanowires by laser ablation and their applications. , 2008, , .		0
62	Synthesis of ZnO Nanowires by Nanoparticle-Assisted Pulsed-Laser Deposition and Optical Characteristics of Single ZnO Nanowire. <i>The Review of Laser Engineering</i> , 2008, 36, 499-504.	0.0	0
63	Quantum Dots. , 2020, , 1-4.		0