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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90 papers	9,423 citations	38 h-index	96 g-index
96 ext. papers	10,931 ext. citations	10.2 avg, IF	6.44 L-index

#	Paper	IF	Citations
90	Core/Shell semiconductor nanocrystals. <i>Small</i> , 2009 , 5, 154-68	11	1504
89	ZnS nanostructures: From synthesis to applications. <i>Progress in Materials Science</i> , 2011 , 56, 175-287	42.2	957
88	Efficient synthesis of highly luminescent copper indium sulfide-based core/shell nanocrystals with surprisingly long-lived emission. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1176-9	16.4	593
87	Highly Luminescent CuInS ₂ /ZnS Core/Shell Nanocrystals: Cadmium-Free Quantum Dots for In Vivo Imaging. <i>Chemistry of Materials</i> , 2009 , 21, 2422-2429	9.6	589
86	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. <i>Nature Energy</i> , 2019 , 4, 408-415	62.3	511
85	Enhancing the Stability of CH ₃ NH ₃ PbBr ₃ Quantum Dots by Embedding in Silica Spheres Derived from Tetramethyl Orthosilicate in "Waterless" Toluene. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5749-52	16.4	415
84	One-pot synthesis of highly luminescent InP/ZnS nanocrystals without precursor injection. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11588-9	16.4	356
83	Highly Luminescent and Ultrastable CsPbBr Perovskite Quantum Dots Incorporated into a Silica/Alumina Monolith. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8134-8138	16.4	280
82	Rapid synthesis of highly luminescent CdTe nanocrystals in the aqueous phase by microwave irradiation with controllable temperature. <i>Chemical Communications</i> , 2005 , 528-30	5.8	242
81	Conversion of invisible metal-organic frameworks to luminescent perovskite nanocrystals for confidential information encryption and decryption. <i>Nature Communications</i> , 2017 , 8, 1138	17.4	241
80	Morphology Evolution and Degradation of CsPbBr Nanocrystals under Blue Light-Emitting Diode Illumination. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7249-7258	9.5	226
79	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
78	A resonance energy transfer between chemiluminescent donors and luminescent quantum-dots as acceptors (CRET). <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5140-3	16.4	195
77	Significant enhancement of the quantum yield of CdTe nanocrystals synthesized in aqueous phase by controlling the pH and concentrations of precursor solutions. <i>Journal of Luminescence</i> , 2006 , 116, 59-66	3.8	171
76	Solution-processed inorganic solar cell based on in situ synthesis and film deposition of CuInS ₂ nanocrystals. <i>Journal of the American Chemical Society</i> , 2010 , 132, 22-3	16.4	168
75	Microwave-assisted aqueous synthesis: a rapid approach to prepare highly luminescent ZnSe(S) alloyed quantum dots. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9034-40	3.4	160
74	Magnetic Biochar Decorated with ZnS Nanocrytals for Pb (II) Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 125-132	8.3	145

73	Effect of poly(ethylene glycol) length on the in vivo behavior of coated quantum dots. <i>Langmuir</i> , 2009 , 25, 3040-4	4	127
72	Highly Luminescent and Ultrastable CsPbBr ₃ Perovskite Quantum Dots Incorporated into a Silica/Alumina Monolith. <i>Angewandte Chemie</i> , 2017 , 129, 8246-8250	3.6	114
71	Economic Synthesis of High Quality InP Nanocrystals Using Calcium Phosphide as the Phosphorus Precursor. <i>Chemistry of Materials</i> , 2008 , 20, 2621-2623	9.6	114
70	A novel method for the sequential removal and separation of multiple heavy metals from wastewater. <i>Journal of Hazardous Materials</i> , 2018 , 342, 617-624	12.8	105
69	Highly luminescent CdTe quantum dots prepared in aqueous phase as an alternative fluorescent probe for cell imaging. <i>Talanta</i> , 2006 , 70, 397-402	6.2	101
68	One-step and rapid synthesis of high quality alloyed quantum dots (CdSeTeS) in aqueous phase by microwave irradiation with controllable temperature. <i>Materials Research Bulletin</i> , 2005 , 40, 1726-1736	5.1	98
67	Suppression of temperature quenching in perovskite nanocrystals for efficient and thermally stable light-emitting diodes. <i>Nature Photonics</i> , 2021 , 15, 379-385	33.9	94
66	Generalized synthesis of hybrid metal-semiconductor nanostructures tunable from the visible to the infrared. <i>ACS Nano</i> , 2012 , 6, 3832-40	16.7	93
65	Ceramic-like stable CsPbBr nanocrystals encapsulated in silica derived from molecular sieve templates. <i>Nature Communications</i> , 2020 , 11, 31	17.4	93
64	β-Cyclodextrin stabilized magnetic Fe ₃ S ₄ nanoparticles for efficient removal of Pb(II). <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15755-15763	13	72
63	Highly efficient size separation of CdTe quantum dots by capillary gel electrophoresis using polymer solution as sieving medium. <i>Electrophoresis</i> , 2006 , 27, 1341-6	3.6	72
62	General Method for the Synthesis of Ultrastable Core/Shell Quantum Dots by Aluminum Doping. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12430-3	16.4	71
61	A Resonance Energy Transfer between Chemiluminescent Donors and Luminescent Quantum-Dots as Acceptors (CRET). <i>Angewandte Chemie</i> , 2006 , 118, 5264-5267	3.6	69
60	Postsynthesis Phase Transformation for CsPbBr/RbPbBr Core/Shell Nanocrystals with Exceptional Photostability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23303-23310	9.5	66
59	Postsynthesis Potassium-Modification Method to Improve Stability of CsPbBr ₃ Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2018 , 6, 1701106	8.1	65
58	Ultraeffective ZnS nanocrystals sorbent for mercury(II) removal based on size-dependent cation exchange. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18026-32	9.5	63
57	Sizes of water-soluble luminescent quantum dots measured by fluorescence correlation spectroscopy. <i>Analytica Chimica Acta</i> , 2005 , 546, 46-51	6.6	52
56	Efficient removal of Pb(II) from water using magnetic Fe ₃ S ₄ /reduced graphene oxide composites. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19333-19342	13	51

55	Non-blinking (Zn)CuInS/ZnS Quantum Dots Prepared by In Situ Interfacial Alloying Approach. <i>Scientific Reports</i> , 2015 , 5, 15227	4.9	45
54	A general non-CH ₃ NH ₃ X (X = I, Br) one-step deposition of CH ₃ NH ₃ PbX ₃ perovskite for high performance solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3245-3248	13	43
53	Stabilizing perovskite nanocrystals by controlling protective surface ligands density. <i>Nano Research</i> , 2019 , 12, 1461-1465	10	41
52	Highly stable CuInS ₂ @ZnS:Al core@shell quantum dots: the role of aluminium self-passivation. <i>Chemical Communications</i> , 2015 , 51, 8757-60	5.8	37
51	Comparative photoluminescence study of close-packed and colloidal InP/ZnS quantum dots. <i>Applied Physics Letters</i> , 2010 , 96, 073102	3.4	36
50	Surface Ligand Engineering toward Brightly Luminescent and Stable Cesium Lead Halide Perovskite Nanoplatelets for Efficient Blue-Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26161-26169	32.8	34
49	CdTe@Co(OH) ₂ (core-shell) nanoparticles: aqueous synthesis and characterization. <i>Chemical Communications</i> , 2005 , 4083-5	5.8	34
48	Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7488-7501	16.4	34
47	Time-resolved photoluminescence study of CuInS ₂ /ZnS nanocrystals. <i>Journal of Family Business Management</i> , 2010 , 1, 025007	2.2	33
46	Large-Scale Synthesis of Highly Luminescent Perovskite Nanocrystals by Template-Assisted Solid-State Reaction at 800 °C. <i>Chemistry of Materials</i> , 2020 , 32, 308-314	9.6	32
45	Coupling fluorescence correlation spectroscopy with microchip electrophoresis to determine the effective surface charge of water-soluble quantum dots. <i>Small</i> , 2006 , 2, 534-8	11	31
44	Hydrofluoroethers as orthogonal solvents for all-solution processed perovskite quantum-dot light-emitting diodes. <i>Nano Energy</i> , 2018 , 51, 358-365	17.1	28
43	Boosting photocatalytic performance and stability of CuInS ₂ /ZnS-TiO ₂ heterostructures via sol-gel processed integrate amorphous titania gel. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 403-410	21.8	28
42	CaF ₂ -Based Near-Infrared Photocatalyst Using the Multifunctional CaTiO ₃ Precursors as the Calcium Source. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20170-8	9.5	26
41	Enhancing the stability of CsPbBr ₃ nanocrystals by sequential surface adsorption of S and metal ions. <i>Chemical Communications</i> , 2018 , 54, 9345-9348	5.8	26
40	Boosting charge separation and photocatalytic CO ₂ reduction of CsPbBr ₃ perovskite quantum dots by hybridizing with P3HT. <i>Chemical Engineering Journal</i> , 2021 , 419, 129543	14.7	26
39	Stability enhancement of lead-free CsSnI ₃ perovskite photodetector with reductive ascorbic acid additive. <i>Information Materials</i> , 2020 , 2, 577-584	23.1	25
38	Size-dependent nanocrystal sorbent for copper removal from water. <i>Chemical Engineering Journal</i> , 2016 , 284, 565-570	14.7	25

37	Critical role of metal ions in surface engineering toward brightly luminescent and stable cesium lead bromide perovskite quantum dots. <i>Nanoscale</i> , 2019 , 11, 2602-2607	7.7	24
36	Encapsulation of CsPbBr ₃ perovskite quantum dots into PPy conducting polymer: Exceptional water stability and enhanced charge transport property. <i>Applied Surface Science</i> , 2020 , 526, 146735	6.7	24
35	Rapid preparation of spinel Co ₃ O ₄ nanocrystals in aqueous phase by microwave irradiation. <i>Materials Research Bulletin</i> , 2006 , 41, 2286-2290	5.1	23
34	Metal recovery based magnetite near-infrared photocatalyst with broadband spectrum utilization property. <i>Applied Catalysis B: Environmental</i> , 2016 , 181, 456-464	21.8	21
33	Synthesis of highly photo-stable CuInS ₂ /ZnS core/shell quantum dots. <i>Optical Materials</i> , 2015 , 47, 56-61	3.3	18
32	Bifunctional Passivation Strategy to Achieve Stable CsPbBr Nanocrystals with Drastically Reduced Thermal-Quenching. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 993-999	6.4	18
31	Stable and Flexible CuInS ₂ /ZnS:Al-TiO ₂ Film for Solar-Light-Driven Photodegradation of Soil Fumigant. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20048-56	9.5	16
30	Tuning emission and Stokes shift of CdS quantum dots via copper and indium co-doping. <i>RSC Advances</i> , 2015 , 5, 628-634	3.7	14
29	Confined Synthesis of Stable and Uniform CsPbBr ₃ Nanocrystals with High Quantum Yield up to 90% by High Temperature Solid-State Reaction. <i>Advanced Optical Materials</i> , 2021 , 9, 2002130	8.1	14
28	High-efficiency perovskite nanocrystal light-emitting diodes via decorating NiO on the nanocrystal surface. <i>Nanoscale</i> , 2020 , 12, 8711-8719	7.7	12
27	Removal and recovery of chloride ions in concentrated leachate by Bi(III) containing oxides quantum dots/two-dimensional flakes. <i>Journal of Hazardous Materials</i> , 2020 , 382, 121041	12.8	12
26	Removal of arsenic(v) from aqueous solutions using sulfur-doped FeO nanoparticles.. <i>RSC Advances</i> , 2018 , 8, 40804-40812	3.7	12
25	Solution-based in situ synthesis and fabrication of ultrasensitive CdSe photoconductors. <i>Advanced Materials</i> , 2010 , 22, 5366-9	24	11
24	Aqueous synthesis of CdTe@FeOOH and CdTe@Ni(OH) ₂ composited nanoparticles. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 1814-1820	3.3	11
23	Band Gap Engineering toward Wavelength Tunable CsPbBr ₃ Nanocrystals for Achieving Rec. 2020 Displays. <i>Chemistry of Materials</i> , 2021 , 33, 3575-3584	9.6	11
22	Time-resolved photoluminescence measurements of InP/ZnS quantum dots. <i>Journal of Physics: Conference Series</i> , 2009 , 187, 012014	0.3	10
21	CsPbBr ₃ Nanocrystal Light-Emitting Diodes with Efficiency up to 13.4% Achieved by Careful Surface Engineering and Device Engineering. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3110-3118	3.8	9
20	Effect of the Electronic Structure on the Stability of CdSe/CdS and CdSe/CdS/ZnS Quantum-Dot Phosphors Incorporated into a Silica/Alumina Monolith. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3086-3090	5.6	7

19	Synthesis of lead halide perovskite nanocrystals by melt crystallization in halide salts. <i>Chemical Communications</i> , 2020 , 56, 11291-11294	5.8	7
18	Narrow-Band Violet-Light-Emitting Diodes Based on Stable Cesium Lead Chloride Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 3545-3554	20.1	7
17	Sacrificial oxidation of a self-metal source for the rapid growth of metal oxides on quantum dots towards improving photostability. <i>Chemical Science</i> , 2019 , 10, 6683-6688	9.4	6
16	Enhancing the performance of LARP-synthesized CsPbBr nanocrystal LEDs by employing a dual hole injection layer.. <i>RSC Advances</i> , 2020 , 10, 17653-17659	3.7	6
15	Optimized synthesis of CuInS ₂ /ZnS:Al/TiO ₂ nanocomposites for 1,3-dichloropropene photodegradation. <i>RSC Advances</i> , 2016 , 6, 77777-77785	3.7	6
14	Synthesis of novel magnetic sulfur-doped Fe ₃ O ₄ nanoparticles for efficient removal of Pb(II). <i>Science China Chemistry</i> , 2018 , 61, 164-171	7.9	5
13	Suppressing thermal quenching of lead halide perovskite nanocrystals by constructing a wide-bandgap surface layer for achieving thermally stable white light-emitting diodes.. <i>Chemical Science</i> , 2022 , 13, 3719-3727	9.4	5
12	Preparation of Thermo-Sensitive Magnetic Cationic Hydrogel for the Adsorption of Reactive Red Dye. <i>Journal of Dispersion Science and Technology</i> , 2015 , 36, 714-722	1.5	4
11	Preparation of CaF ₂ /TiO ₂ /Ln ₂ Ti ₂ O ₇ (Ln = Er, Tm, Yb) based magnetite near-infrared photocatalyst supported on waste ferrite. <i>Materials Research Bulletin</i> , 2017 , 86, 107-112	5.1	4
10	Surface Oxidation of Quantum Dots to Improve the Device Performance of Quantum Dot Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 28424-28430	3.8	4
9	A novel approach to coat silica on quantum dots: Forcing decomposition of tetraethyl orthosilicate in toluene at high temperature. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 152698	5.7	4
8	Improving the Stability of CsPbBr ₃ Perovskite Nanocrystals by Peroxides Post-treatment. <i>Frontiers in Materials</i> , 2019 , 6,	4	4
7	Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability. <i>Angewandte Chemie</i> , 2021 , 133, 7564-7577	3.6	3
6	Evenly distribution of amorphous iron sulfides on reconstructed Mg-Al hydrotalcites for improving Cr(VI) removal efficiency. <i>Chemical Engineering Journal</i> , 2021 , 417, 129228	14.7	3
5	Large-scale fabrication of upconversion/quantum dots photocatalyst film by a facile spin-coating method. <i>Journal of Solid State Chemistry</i> , 2020 , 282, 121092	3.3	2
4	Integrated solar cells with non-toxic inorganic nanocrystals and polymer bulk heterojunction. <i>Applied Surface Science Advances</i> , 2021 , 3, 100052	2.6	2
3	Simultaneous reduction and sequestration of hexavalent chromium by magnetic β -cyclodextrin stabilized FeS.. <i>Journal of Hazardous Materials</i> , 2022 , 431, 128592	12.8	0
2	1,3-Dichloropropene and chloropicrin emission reduction using a flexible CuInS/ZnS:Al-TiO photocatalytic film. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 6980-6989	5.1	

- 1 23.6: Invited Paper: Enhancing the Stability and Efficiency of Perovskite Nanocrystals Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 306-306 0.5