Liang Li

List of Publications by Year in Descending Order

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	Suppressing thermal quenching of lead halide perovskite nanocrystals by constructing a wide-bandgap surface layer for achieving thermally stable white light-emitting diodes.. *Chemical Science*, **2022**, 13, 3719-3727	9.4	5
89	Simultaneous reduction and sequestration of hexavalent chromium by magnetic Cyclodextrin stabilized FeS.. *Journal of Hazardous Materials*, **2022**, 431, 128592	12.8	0
88	Confined Synthesis of Stable and Uniform CsPbBr3 Nanocrystals with High Quantum Yield up to 90% by High Temperature Solid-State Reaction. *Advanced Optical Materials*, **2021**, 9, 2002130	8.1	14
87	Integrated solar cells with non-toxic inorganic nanocrystals and polymer bulk heterojunction. *Applied Surface Science Advances*, **2021**, 3, 100052	2.6	2
86	Suppression of temperature quenching in perovskite nanocrystals for efficient and thermally stable light-emitting diodes. *Nature Photonics*, **2021**, 15, 379-385	33.9	94
85	Band Gap Engineering toward Wavelength Tunable CsPbBr3 Nanocrystals for Achieving Rec. 2020 Displays. *Chemistry of Materials*, **2021**, 33, 3575-3584	9.6	11
84	State of the Art and Prospects for Halide Perovskite Nanocrystals. *ACS Nano*, **2021**, 15, 10775-10981	16.7	222
83	Metal Halide Perovskite Nanocrystals in Metal Organic Framework Host: Not Merely Enhanced Stability. *Angewandte Chemie*, **2021**, 133, 7564-7577	3.6	3
82	Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability. *Angewandte Chemie - International Edition*, **2021**, 60, 7488-7501	16.4	34
81	1,3-Dichloropropene and chloropicrin emission reduction using a flexible CuInS/ZnS:Al-TiO photocatalytic film. *Environmental Science and Pollution Research*, **2021**, 28, 6980-6989	5.1	
80	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	
79	Evenly distribution of amorphous iron sulfides on reconstructed Mg-Al hydrotalcites for improving Cr(VI) removal efficiency. *Chemical Engineering Journal*, **2021**, 417, 129228	14.7	3
78	Boosting charge separation and photocatalytic CO2 reduction of CsPbBr3 perovskite quantum dots by hybridizing with P3HT. *Chemical Engineering Journal*, **2021**, 419, 129543	14.7	26
77	CsPbBr3 Nanocrystal Light-Emitting Diodes with Efficiency up to 13.4% Achieved by Careful Surface Engineering and Device Engineering. *Journal of Physical Chemistry C*, **2021**, 125, 3110-3118	3.8	9
76	Enhancing the performance of LARP-synthesized CsPbBr nanocrystal LEDs by employing a dual hole injection layer.. *RSC Advances*, **2020**, 10, 17653-17659	3.7	6
75	Encapsulation of CsPbBr3 perovskite quantum dots into PPy conducting polymer: Exceptional water stability and enhanced charge transport property. *Applied Surface Science*, **2020**, 526, 146735	6.7	24
74	Stability enhancement of lead-free CsSnI3 perovskite photodetector with reductive ascorbic acid additive. *Informa Materly*, **2020**, 2, 577-584	23.1	25

73	Bifunctional Passivation Strategy to Achieve Stable CsPbBr Nanocrystals with Drastically Reduced Thermal-Quenching. *Journal of Physical Chemistry Letters*, **2020**, 11, 993-999	6.4	18
72	High-efficiency perovskite nanocrystal light-emitting diodes via decorating NiO on the nanocrystal surface. *Nanoscale*, **2020**, 12, 8711-8719	7.7	12
71	Surface Oxidation of Quantum Dots to Improve the Device Performance of Quantum Dot Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2020**, 124, 28424-28430	3.8	4
70	A novel approach to coat silica on quantum dots: Forcing decomposition of tetraethyl orthosilicate in toluene at high temperature. *Journal of Alloys and Compounds*, **2020**, 817, 152698	5.7	4
69	Large-Scale Synthesis of Highly Luminescent Perovskite Nanocrystals by Template-Assisted Solid-State Reaction at 800 °C. *Chemistry of Materials*, **2020**, 32, 308-314	9.6	32
68	Ceramic-like stable CsPbBr nanocrystals encapsulated in silica derived from molecular sieve templates. *Nature Communications*, **2020**, 11, 31	17.4	93
67	Large-scale fabrication of upconversion/quantum dots photocatalyst film by a facile spin-coating method. *Journal of Solid State Chemistry*, **2020**, 282, 121092	3.3	2
66	Synthesis of lead halide perovskite nanocrystals by melt crystallization in halide salts. *Chemical Communications*, **2020**, 56, 11291-11294	5.8	7
65	Removal and recovery of chloride ions in concentrated leachate by Bi(III) containing oxides quantum dots/two-dimensional flakes. *Journal of Hazardous Materials*, **2020**, 382, 121041	12.8	12
64	Critical role of metal ions in surface engineering toward brightly luminescent and stable cesium lead bromide perovskite quantum dots. *Nanoscale*, **2019**, 11, 2602-2607	7.7	24
63	Sacrificial oxidation of a self-metal source for the rapid growth of metal oxides on quantum dots towards improving photostability. *Chemical Science*, **2019**, 10, 6683-6688	9.4	6
62	Stabilizing perovskite nanocrystals by controlling protective surface ligands density. *Nano Research*, **2019**, 12, 1461-1465	10	41
61	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. *Nature Energy*, **2019**, 4, 408-415	62.3	511
60	Surface Ligand Engineering toward Brightly Luminescent and Stable Cesium Lead Halide Perovskite Nanoplatelets for Efficient Blue-Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2019**, 123, 26161-26169	3.8	34
59	Improving the Stability of CsPbBr3 Perovskite Nanocrystals by Peroxides Post-treatment. *Frontiers in Materials*, **2019**, 6,	4	4
58	Postsynthesis Potassium-Modification Method to Improve Stability of CsPbBr3 Perovskite Nanocrystals. *Advanced Optical Materials*, **2018**, 6, 1701106	8.1	65
57	A novel method for the sequential removal and separation of multiple heavy metals from wastewater. *Journal of Hazardous Materials*, **2018**, 342, 617-624	12.8	105
56	Synthesis of novel magnetic sulfur-doped Fe3O4 nanoparticles for efficient removal of Pb(II). *Science China Chemistry*, **2018**, 61, 164-171	7.9	5

55	Enhancing the stability of CsPbBr nanocrystals by sequential surface adsorption of S and metal ions. *Chemical Communications*, **2018**, 54, 9345-9348	5.8	26
54	Effect of the Electronic Structure on the Stability of CdSe/CdS and CdSe/CdS/ZnS Quantum-Dot Phosphors Incorporated into a Silica/Alumina Monolith. *ACS Applied Nano Materials*, **2018**, 1, 3086-3090	5.6	7
53	Postsynthesis Phase Transformation for CsPbBr/RbPbBr Core/Shell Nanocrystals with Exceptional Photostability. *ACS Applied Materials & Interfaces*, **2018**, 10, 23303-23310	9.5	66
52	Hydrofluoroethers as orthogonal solvents for all-solution processed perovskite quantum-dot light-emitting diodes. *Nano Energy*, **2018**, 51, 358-365	17.1	28
51	Removal of arsenic(v) from aqueous solutions using sulfur-doped FeO nanoparticles.. *RSC Advances*, **2018**, 8, 40804-40812	3.7	12
50	Morphology Evolution and Degradation of CsPbBr Nanocrystals under Blue Light-Emitting Diode Illumination. *ACS Applied Materials & Interfaces*, **2017**, 9, 7249-7258	9.5	226
49	Highly Luminescent and Ultrastable CsPbBr3 Perovskite Quantum Dots Incorporated into a Silica/Alumina Monolith. *Angewandte Chemie*, **2017**, 129, 8246-8250	3.6	114
48	Highly Luminescent and Ultrastable CsPbBr Perovskite Quantum Dots Incorporated into a Silica/Alumina Monolith. *Angewandte Chemie - International Edition*, **2017**, 56, 8134-8138	16.4	280
47	Conversion of invisible metal-organic frameworks to luminescent perovskite nanocrystals for confidential information encryption and decryption. *Nature Communications*, **2017**, 8, 1138	17.4	241
46	Efficient removal of Pb(II) from water using magnetic Fe3S4/reduced graphene oxide composites. *Journal of Materials Chemistry A*, **2017**, 5, 19333-19342	13	51
45	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. *Materials Research Bulletin*, **2017**, 86, 107-112	5.1	4
44	Boosting photocatalytic performance and stability of CuInS2/ZnS-TiO2 heterostructures via sol-gel processed integrate amorphous titania gel. *Applied Catalysis B: Environmental*, **2017**, 204, 403-410	21.8	28
43	Metal recovery based magnetite near-infrared photocatalyst with broadband spectrum utilization property. *Applied Catalysis B: Environmental*, **2016**, 181, 456-464	21.8	21
42	Optimized synthesis of CuInS2/ZnS:Al□TiO2 nanocomposites for 1,3-dichloropropene photodegradation. *RSC Advances*, **2016**, 6, 77777-77785	3.7	6
41	Stable and Flexible CuInS2/ZnS:Al-TiO2 Film for Solar-Light-Driven Photodegradation of Soil Fumigant. *ACS Applied Materials & Interfaces*, **2016**, 8, 20048-56	9.5	16
40	A general non-CH3NH3X (X = I, Br) one-step deposition of CH3NH3PbX3 perovskite for high performance solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 3245-3248	13	43
39	Size-dependent nanocrystal sorbent for copper removal from water. *Chemical Engineering Journal*, **2016**, 284, 565-570	14.7	25
38	Enhancing the Stability of CH3NH3PbBr3 Quantum Dots by Embedding in Silica Spheres Derived from Tetramethyl Orthosilicate in "Waterless" Toluene. *Journal of the American Chemical Society*, **2016**, 138, 5749-52	16.4	415

37	Synthesis of highly photo-stable CuInS2/ZnS core/shell quantum dots. *Optical Materials*, **2015**, 47, 56-61	3.3	18
36	Cyclodextrin stabilized magnetic Fe3S4 nanoparticles for efficient removal of Pb(II). *Journal of Materials Chemistry A*, **2015**, 3, 15755-15763	13	72
35	General Method for the Synthesis of Ultrastable Core/Shell Quantum Dots by Aluminum Doping. *Journal of the American Chemical Society*, **2015**, 137, 12430-3	16.4	71
34	CaF2-Based Near-Infrared Photocatalyst Using the Multifunctional CaTiO3 Precursors as the Calcium Source. *ACS Applied Materials & Interfaces*, **2015**, 7, 20170-8	9.5	26
33	Magnetic Biochar Decorated with ZnS Nanocrytals for Pb (II) Removal. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 125-132	8.3	145
32	Preparation of Thermo-Sensitive Magnetic Cationic Hydrogel for the Adsorption of Reactive Red Dye. *Journal of Dispersion Science and Technology*, **2015**, 36, 714-722	1.5	4
31	Non-blinking (Zn)CuInS/ZnS Quantum Dots Prepared by In Situ Interfacial Alloying Approach. *Scientific Reports*, **2015**, 5, 15227	4.9	45
30	Highly stable CuInS2@ZnS:Al core@shell quantum dots: the role of aluminium self-passivation. *Chemical Communications*, **2015**, 51, 8757-60	5.8	37
29	Tuning emission and Stokes shift of CdS quantum dots via copper and indium co-doping. *RSC Advances*, **2015**, 5, 628-634	3.7	14
28	Ultraeffective ZnS nanocrystals sorbent for mercury(II) removal based on size-dependent cation exchange. *ACS Applied Materials & Interfaces*, **2014**, 6, 18026-32	9.5	63
27	Generalized synthesis of hybrid metal-semiconductor nanostructures tunable from the visible to the infrared. *ACS Nano*, **2012**, 6, 3832-40	16.7	93
26	Efficient synthesis of highly luminescent copper indium sulfide-based core/shell nanocrystals with surprisingly long-lived emission. *Journal of the American Chemical Society*, **2011**, 133, 1176-9	16.4	593
25	ZnS nanostructures: From synthesis to applications. *Progress in Materials Science*, **2011**, 56, 175-287	42.2	957
24	Solution-processed inorganic solar cell based on in situ synthesis and film deposition of CuInS2 nanocrystals. *Journal of the American Chemical Society*, **2010**, 132, 22-3	16.4	168
23	Comparative photoluminescence study of close-packed and colloidal InP/ZnS quantum dots. *Applied Physics Letters*, **2010**, 96, 073102	3.4	36
22	Time-resolved photoluminescence study of CuInS 2 /ZnS nanocrystals. *Journal of Family Business Management*, **2010**, 1, 025007	2.2	33
21	Solution-based in situ synthesis and fabrication of ultrasensitive CdSe photoconductors. *Advanced Materials*, **2010**, 22, 5366-9	24	11
20	Core/Shell semiconductor nanocrystals. *Small*, **2009**, 5, 154-68	11	1504

19	Effect of poly(ethylene glycol) length on the in vivo behavior of coated quantum dots. *Langmuir*, **2009**, 25, 3040-4	4	127
18	Highly Luminescent CuInS2/ZnS Core/Shell Nanocrystals: Cadmium-Free Quantum Dots for In Vivo Imaging. *Chemistry of Materials*, **2009**, 21, 2422-2429	9.6	589
17	Time-resolved photoluminescence measurements of InP/ZnS quantum dots. *Journal of Physics: Conference Series*, **2009**, 187, 012014	0.3	10
16	Economic Synthesis of High Quality InP Nanocrystals Using Calcium Phosphide as the Phosphorus Precursor. *Chemistry of Materials*, **2008**, 20, 2621-2623	9.6	114
15	One-pot synthesis of highly luminescent InP/ZnS nanocrystals without precursor injection. *Journal of the American Chemical Society*, **2008**, 130, 11588-9	16.4	356
14	Rapid preparation of spinel Co3O4 nanocrystals in aqueous phase by microwave irradiation. *Materials Research Bulletin*, **2006**, 41, 2286-2290	5.1	23
13	A resonance energy transfer between chemiluminescent donors and luminescent quantum-dots as acceptors (CRET). *Angewandte Chemie - International Edition*, **2006**, 45, 5140-3	16.4	195
12	Highly efficient size separation of CdTe quantum dots by capillary gel electrophoresis using polymer solution as sieving medium. *Electrophoresis*, **2006**, 27, 1341-6	3.6	72
11	A Resonance Energy Transfer between Chemiluminescent Donors and Luminescent Quantum-Dots as Acceptors (CRET). *Angewandte Chemie*, **2006**, 118, 5264-5267	3.6	69
10	Microwave-assisted aqueous synthesis: a rapid approach to prepare highly luminescent ZnSe(S) alloyed quantum dots. *Journal of Physical Chemistry B*, **2006**, 110, 9034-40	3.4	160
9	Highly luminescent CdTe quantum dots prepared in aqueous phase as an alternative fluorescent probe for cell imaging. *Talanta*, **2006**, 70, 397-402	6.2	101
8	Coupling fluorescence correlation spectroscopy with microchip electrophoresis to determine the effective surface charge of water-soluble quantum dots. *Small*, **2006**, 2, 534-8	11	31
7	Aqueous synthesis of CdTe@FeOOH and CdTe@Ni(OH)2 composited nanoparticles. *Journal of Solid State Chemistry*, **2006**, 179, 1814-1820	3.3	11
6	Significant enhancement of the quantum yield of CdTe nanocrystals synthesized in aqueous phase by controlling the pH and concentrations of precursor solutions. *Journal of Luminescence*, **2006**, 116, 59-66	3.8	171
5	CdTe@Co(OH)2 (core-shell) nanoparticles: aqueous synthesis and characterization. *Chemical Communications*, **2005**, 4083-5	5.8	34
4	Rapid synthesis of highly luminescent CdTe nanocrystals in the aqueous phase by microwave irradiation with controllable temperature. *Chemical Communications*, **2005**, 528-30	5.8	242
3	Sizes of water-soluble luminescent quantum dots measured by fluorescence correlation spectroscopy. *Analytica Chimica Acta*, **2005**, 546, 46-51	6.6	52
2	One-step and rapid synthesis of high quality alloyed quantum dots (CdSe□dS) in aqueous phase by microwave irradiation with controllable temperature. *Materials Research Bulletin*, **2005**, 40, 1726-1736	5.1	98

List of Publications

1	Narrow-Band Violet-Light-Emitting Diodes Based on Stable Cesium Lead Chloride Perovskite Nanocrystals. *ACS Energy Letters*,3545-3554	20.1	7