

Liang Li

List of Publications by Year in descending order

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94
papers

12,446
citations

61857

43
h-index

42291

92
g-index

96
all docs

96
docs citations

96
times ranked

13623
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Adsorbents for Wastewater Treatment: Advancements in Their Synthesis Methods. <i>Materials</i> , 2022, 15, 1053.	1.3	17
2	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.	3.7	25
3	Simultaneous reduction and sequestration of hexavalent chromium by magnetic β -Cyclodextrin stabilized Fe ₃ S ₄ . <i>Journal of Hazardous Materials</i> , 2022, 431, 128592.	6.5	28
4	Stable Lead-Free Tin Halide Perovskite with Operational Stability >1200h by Suppressing Tin(II) Oxidation. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
5	Stable Lead-Free Tin Halide Perovskite with Operational Stability >1200h by Suppressing Tin(II) Oxidation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	34
6	Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability. <i>Angewandte Chemie</i> , 2021, 133, 7564-7577.	1.6	16
7	Metal Halide Perovskite Nanocrystals in Metal-Organic Framework Host: Not Merely Enhanced Stability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7488-7501.	7.2	80
8	1,3-Dichloropropene and chloropicrin emission reduction using a flexible CuInS ₂ /ZnS:Al-TiO ₂ photocatalytic film. <i>Environmental Science and Pollution Research</i> , 2021, 28, 6980-6989.	2.7	0
9	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.	3.6	40
10	Integrated solar cells with non-toxic inorganic nanocrystals and polymer bulk heterojunction. <i>Applied Surface Science Advances</i> , 2021, 3, 100052.	2.9	2
11	Suppression of temperature quenching in perovskite nanocrystals for efficient and thermally stable light-emitting diodes. <i>Nature Photonics</i> , 2021, 15, 379-385.	15.6	260
12	Band Gap Engineering toward Wavelength Tunable CsPbBr ₃ Nanocrystals for Achieving Rec. 2020 Displays. <i>Chemistry of Materials</i> , 2021, 33, 3575-3584.	3.2	32
13	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	7.3	705
14	23.6: Invited Paper: Enhancing the Stability and Efficiency of Perovskite Nanocrystals Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 306-306.	0.1	0
15	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.	6.6	17
16	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.	6.6	58
17	Narrow-Band Violet-Light-Emitting Diodes Based on Stable Cesium Lead Chloride Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2021, 6, 3545-3554.	8.8	39
18	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.	1.5	29

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19	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.	6.5	27
20	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.	2.8	7
21	Large-Scale Synthesis of Highly Luminescent Perovskite Nanocrystals by Template-Assisted Solid-State Reaction at 800 Å°C. <i>Chemistry of Materials</i> , 2020, 32, 308-314.	3.2	57
22	Ceramic-like stable CsPbBr ₃ nanocrystals encapsulated in silica derived from molecular sieve templates. <i>Nature Communications</i> , 2020, 11, 31.	5.8	185
23	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.	1.4	4
24	Synthesis of lead halide perovskite nanocrystals by melt crystallization in halide salts. <i>Chemical Communications</i> , 2020, 56, 11291-11294.	2.2	12
25	Enhancing the performance of LARP-synthesized CsPbBr ₃ nanocrystal LEDs by employing a dual hole injection layer. <i>RSC Advances</i> , 2020, 10, 17653-17659.	1.7	13
26	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.	3.1	41
27	Stability enhancement of lead-free CsSn ₃ perovskite photodetector with reductive ascorbic acid additive. <i>Informa Mater</i> , 2020, 2, 577-584.	8.5	56
28	Bifunctional Passivation Strategy to Achieve Stable CsPbBr ₃ Nanocrystals with Drastically Reduced Thermal-Quenching. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 993-999.	2.1	32
29	High-efficiency perovskite nanocrystal light-emitting diodes <i>via</i> decorating NiO _x on the nanocrystal surface. <i>Nanoscale</i> , 2020, 12, 8711-8719.	2.8	23
30	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.	1.5	12
31	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.	1.5	59
32	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.	2.8	33
33	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.	3.7	9
34	Stabilizing perovskite nanocrystals by controlling protective surface ligands density. <i>Nano Research</i> , 2019, 12, 1461-1465.	5.8	56
35	Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. <i>Nature Energy</i> , 2019, 4, 408-415.	19.8	831
36	Improving the Stability of CsPbBr ₃ Perovskite Nanocrystals by Peroxides Post-treatment. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	9

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37	Postsynthesis Potassium Modification Method to Improve Stability of CsPbBr ₃ Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2018, 6, 1701106.	3.6	95
38	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.	6.5	143
39	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.	4.2	10
40	Removal of arsenic(^v) from aqueous solutions using sulfur-doped Fe ₃ O ₄ nanoparticles. <i>RSC Advances</i> , 2018, 8, 40804-40812.	1.7	22
41	Enhancing the stability of CsPbBr ₃ nanocrystals by sequential surface adsorption of S ²⁻ and metal ions. <i>Chemical Communications</i> , 2018, 54, 9345-9348.	2.2	33
42	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.	2.4	9
43	Postsynthesis Phase Transformation for CsPbBr ₃ /Rb ₄ PbBr ₆ Core/Shell Nanocrystals with Exceptional Photostability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23303-23310.	4.0	98
44	Hydrofluoroethers as orthogonal solvents for all-solution processed perovskite quantum-dot light-emitting diodes. <i>Nano Energy</i> , 2018, 51, 358-365.	8.2	40
45	Morphology Evolution and Degradation of CsPbBr ₃ Nanocrystals under Blue Light-Emitting Diode Illumination. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7249-7258.	4.0	314
46	Highly Luminescent and Ultrastable CsPbBr ₃ Perovskite Quantum Dots Incorporated into a Silica/Alumina Monolith. <i>Angewandte Chemie</i> , 2017, 129, 8246-8250.	1.6	153
47	Highly Luminescent and Ultrastable CsPbBr ₃ Perovskite Quantum Dots Incorporated into a Silica/Alumina Monolith. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8134-8138.	7.2	355
48	Conversion of invisible metal-organic frameworks to luminescent perovskite nanocrystals for confidential information encryption and decryption. <i>Nature Communications</i> , 2017, 8, 1138.	5.8	374
49	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.	5.2	72
50	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.	2.7	5
51	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.	10.8	32
52	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, 5749-5752.	6.6	501
53	Optimized synthesis of CuInS ₂ /ZnS:Al-TiO ₂ nanocomposites for 1,3-dichloropropene photodegradation. <i>RSC Advances</i> , 2016, 6, 77777-77785.	1.7	6
54	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, 20048-20056.	4.0	20

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55	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.	5.2	47
56	Size-dependent nanocrystal sorbent for copper removal from water. <i>Chemical Engineering Journal</i> , 2016, 284, 565-570.	6.6	28
57	Metal recovery based magnetite near-infrared photocatalyst with broadband spectrum utilization property. <i>Applied Catalysis B: Environmental</i> , 2016, 181, 456-464.	10.8	26
58	Non-blinking (Zn)CuInS/ZnS Quantum Dots Prepared by In Situ Interfacial Alloying Approach. <i>Scientific Reports</i> , 2015, 5, 15227.	1.6	52
59	Highly stable CuInS ₂ @ZnS:Al core@shell quantum dots: the role of aluminium self-passivation. <i>Chemical Communications</i> , 2015, 51, 8757-8760.	2.2	44
60	Tuning emission and Stokes shift of CdS quantum dots via copper and indium co-doping. <i>RSC Advances</i> , 2015, 5, 628-634.	1.7	17
61	Synthesis of highly photo-stable CuInS ₂ /ZnS core/shell quantum dots. <i>Optical Materials</i> , 2015, 47, 56-61.	1.7	23
62	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.	5.2	92
63	General Method for the Synthesis of Ultrastable Core/Shell Quantum Dots by Aluminum Doping. <i>Journal of the American Chemical Society</i> , 2015, 137, 12430-12433.	6.6	91
64	CaF ₂ -Based Near-Infrared Photocatalyst Using the Multifunctional CaTiO ₃ Precursors as the Calcium Source. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20170-20178.	4.0	33
65	Magnetic Biochar Decorated with ZnS Nanocrystals for Pb (II) Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 125-132.	3.2	180
66	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.	1.3	5
67	Ultraeffective ZnS Nanocrystals Sorbent for Mercury(II) Removal Based on Size-Dependent Cation Exchange. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18026-18032.	4.0	75
68	Generalized Synthesis of Hybrid Metal-Semiconductor Nanostructures Tunable from the Visible to the Infrared. <i>ACS Nano</i> , 2012, 6, 3832-3840.	7.3	99
69	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, 1176-1179.	6.6	671
70	ZnS nanostructures: From synthesis to applications. <i>Progress in Materials Science</i> , 2011, 56, 175-287.	16.0	1,134
71	Solution-Based In Situ Synthesis and Fabrication of Ultrasensitive CdSe Photoconductors. <i>Advanced Materials</i> , 2010, 22, 5366-5369.	11.1	14
72	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, 22-23.	6.6	178

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73	Comparative photoluminescence study of close-packed and colloidal InP/ZnS quantum dots. Applied Physics Letters, 2010, 96, 073102.	1.5	44
74	Time-resolved photoluminescence study of $\text{CuInS}_2/\text{ZnS}$ nanocrystals. Journal of Family Business Management, 2010, 1, 025007.	2.6	36
75	Core/Shell Semiconductor Nanocrystals. Small, 2009, 5, 154-168.	5.2	1,746
76	Effect of Poly(ethylene glycol) Length on the in Vivo Behavior of Coated Quantum Dots. Langmuir, 2009, 25, 3040-3044.	1.6	142
77	Highly Luminescent $\text{CuInS}_2/\text{ZnS}$ Core/Shell Nanocrystals: Cadmium-Free Quantum Dots for In Vivo Imaging. Chemistry of Materials, 2009, 21, 2422-2429.	3.2	644
78	Time-resolved photoluminescence measurements of InP/ZnS quantum dots. Journal of Physics: Conference Series, 2009, 187, 012014.	0.3	11
79	Economic Synthesis of High Quality InP Nanocrystals Using Calcium Phosphide as the Phosphorus Precursor. Chemistry of Materials, 2008, 20, 2621-2623.	3.2	126
80	One-pot Synthesis of Highly Luminescent InP/ZnS Nanocrystals without Precursor Injection. Journal of the American Chemical Society, 2008, 130, 11588-11589.	6.6	407
81	Microwave-Assisted Aqueous Synthesis: A Rapid Approach to Prepare Highly Luminescent ZnSe(S) Alloyed Quantum Dots. Journal of Physical Chemistry B, 2006, 110, 9034-9040.	1.2	165
82	Highly luminescent CdTe quantum dots prepared in aqueous phase as an alternative fluorescent probe for cell imaging. Talanta, 2006, 70, 397-402.	2.9	117
83	Coupling Fluorescence Correlation Spectroscopy with Microchip Electrophoresis to Determine the Effective Surface Charge of Water-Soluble Quantum Dots. Small, 2006, 2, 534-538.	5.2	36
84	Aqueous synthesis of CdTe@FeOOH and CdTe@Ni(OH) ₂ composited nanoparticles. Journal of Solid State Chemistry, 2006, 179, 1814-1820.	1.4	12
85	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.	1.5	183
86	Rapid preparation of spinel Co ₃ O ₄ nanocrystals in aqueous phase by microwave irradiation. Materials Research Bulletin, 2006, 41, 2286-2290.	2.7	24
87	A Resonance Energy Transfer between Chemiluminescent Donors and Luminescent Quantum-Dots as Acceptors (CRET). Angewandte Chemie - International Edition, 2006, 45, 5140-5143.	7.2	224
88	Highly efficient size separation of CdTe quantum dots by capillary gel electrophoresis using polymer solution as sieving medium. Electrophoresis, 2006, 27, 1341-1346.	1.3	73
89	Sizes of water-soluble luminescent quantum dots measured by fluorescence correlation spectroscopy. Analytica Chimica Acta, 2005, 546, 46-51.	2.6	53
90	One-step and rapid synthesis of high quality alloyed quantum dots (CdSe@CdS) in aqueous phase by microwave irradiation with controllable temperature. Materials Research Bulletin, 2005, 40, 1726-1736.	2.7	105

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91	Rapid Synthesis of Highly Luminescent CdTe Nanocrystals in the Aqueous Phase by Microwave Irradiation with Controllable Temperature.. ChemInform, 2005, 36, no.	0.1	0
92	CdTe@Co(OH)2 (Core-Shell) Nanoparticles: Aqueous Synthesis and Characterization.. ChemInform, 2005, 36, no.	0.1	0
93	CdTe@Co(OH)2(core-shell) nanoparticles: aqueous synthesis and characterization. Chemical Communications, 2005, , 4083.	2.2	38
94	Rapid synthesis of highly luminescent CdTe nanocrystals in the aqueous phase by microwave irradiation with controllable temperature. Chemical Communications, 2005, , 528.	2.2	246