Liang Li

List of Publications by Citations

179	12,194	57	107
papers	citations	h-index	g-index
189	14,588	14.4	7.11
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
179	ZnS nanostructures: From synthesis to applications. *Progress in Materials Science*, **2011**, 56, 175-287	42.2	957
178	A Eu-Eu ion redox shuttle imparts operational durability to Pb-I perovskite solar cells. *Science*, **2019**, 363, 265-270	33.3	533
177	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
176	Self-Supported Nanotube Arrays of Sulfur-Doped TiO2 Enabling Ultrastable and Robust Sodium Storage. *Advanced Materials*, **2016**, 28, 2259-65	24	385
175	One-dimensional inorganic nanostructures: synthesis, field-emission and photodetection. *Chemical Society Reviews*, **2011**, 40, 2986-3004	58.5	321
174	Single-crystalline CdS nanobelts for excellent field-emitters and ultrahigh quantum-efficiency photodetectors. *Advanced Materials*, **2010**, 22, 3161-5	24	311
173	Recent Developments in One-Dimensional Inorganic Nanostructures for Photodetectors. *Advanced Functional Materials*, **2010**, 20, 4233-4248	15.6	277
172	One-dimensional CdS nanostructures: synthesis, properties, and applications. *Nanoscale*, **2010**, 2, 168-87	7.7	276
171	Chemical Reduction of Intrinsic Defects in Thicker Heterojunction Planar Perovskite Solar Cells. *Advanced Materials*, **2017**, 29, 1606774	24	267
170	2D ZnIn(2)S(4) nanosheet/1D TiO(2) nanorod heterostructure arrays for improved photoelectrochemical water splitting. *ACS Applied Materials & Interfaces*, **2014**, 6, 17200-7	9.5	249
169	Exploration of Crystallization Kinetics in Quasi Two-Dimensional Perovskite and High Performance Solar Cells. *Journal of the American Chemical Society*, **2018**, 140, 459-465	16.4	248
168	The Additive Coordination Effect on Hybrids Perovskite Crystallization and High-Performance Solar Cell. *Advanced Materials*, **2016**, 28, 9862-9868	24	235
167	Ultrahigh-performance solar-blind photodetectors based on individual single-crystalline In□e□□ nanobelts. *Advanced Materials*, **2010**, 22, 5145-9	24	217
166	Hybrid Organic-Inorganic Perovskite Photodetectors. *Small*, **2017**, 13, 1702107	11	206
165	Hydrogenation Driven Conductive Na2Ti3O7 Nanoarrays as Robust Binder-Free Anodes for Sodium-Ion Batteries. *Nano Letters*, **2016**, 16, 4544-51	11.5	200
164	Superior Sodium Storage in Na2Ti3O7 Nanotube Arrays through Surface Engineering. *Advanced Energy Materials*, **2016**, 6, 1502568	21.8	189
163	CdS nanoscale photodetectors. *Advanced Materials*, **2014**, 26, 2619-35	24	183

162	Emerging in-plane anisotropic two-dimensional materials. *Informa Materiy*, **2019**, 1, 54-73	23.1	175
161	Ultrathin MoO2 nanosheets for superior lithium storage. *Nano Energy*, **2015**, 11, 129-135	17.1	172
160	Boosting Sodium Storage in TiO Nanotube Arrays through Surface Phosphorylation. *Advanced Materials*, **2018**, 30, 1704337	24	168
159	Recent progress of one-dimensional ZnO nanostructured solar cells. *Nano Energy*, **2012**, 1, 91-106	17.1	167
158	A Self-Powered and Stable All-Perovskite Photodetector Solar Cell Nanosystem. *Advanced Functional Materials*, **2016**, 26, 1296-1302	15.6	164
157	Direct Electrodeposition of ZnO Nanotube Arrays in Anodic Alumina Membranes. *Journal of Physical Chemistry C*, **2007**, 111, 7288-7291	3.8	154
156	Electronic and Optoelectronic Applications Based on 2D Novel Anisotropic Transition Metal Dichalcogenides. *Advanced Science*, **2017**, 4, 1700231	13.6	145
155	Strongly Coupled Bi2S3@CNT Hybrids for Robust Lithium Storage. *Advanced Energy Materials*, **2014**, 4, 1400798	21.8	135
154	Bismuth chalcogenide compounds Bi2 (X=O, S, Se): Applications in electrochemical energy storage. *Nano Energy*, **2017**, 34, 356-366	17.1	132
153	Ultrahigh-Performance Self-Powered Flexible Double-Twisted Fibrous Broadband Perovskite Photodetector. *Advanced Materials*, **2018**, 30, e1706986	24	132
152	Self-Powered Nanoscale Photodetectors. *Small*, **2017**, 13, 1701848	11	130
151	Gradient Energy Band Driven High-Performance Self-Powered Perovskite/CdS Photodetector. *Advanced Materials*, **2019**, 31, e1806725	24	130
150	Bio-inspired engineering of Bi2S3-PPy yolk-shell composite for highly durable lithium and sodium storage. *Nano Energy*, **2017**, 33, 213-220	17.1	125
149	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. *Nature Communications*, **2019**, 10, 1112	17.4	124
148	Enhanced Photoelectrochemical Performance from Rationally Designed Anatase/Rutile TiO2 Heterostructures. *ACS Applied Materials & Interfaces*, **2016**, 8, 12239-45	9.5	116
147	Nanoscale ultraviolet photodetectors based on onedimensional metal oxide nanostructures. *Nano Research*, **2015**, 8, 382-405	10	106
146	Size-tailored ZnO submicrometer spheres: bottom-up construction, size-related optical extinction, and selective aniline trapping. *Advanced Materials*, **2011**, 23, 1865-70	24	105
145	Phosphorus: An Anode of Choice for Sodium-Ion Batteries. *ACS Energy Letters*, **2018**, 3, 1137-1144	20.1	104

144	Coagulated SnO Colloids for High-Performance Planar Perovskite Solar Cells with Negligible Hysteresis and Improved Stability. *Angewandte Chemie - International Edition*, **2019**, 58, 11497-11504	16.4	100
143	Three-Dimensional WO Nanoplate/BiS Nanorod Heterojunction as a Highly Efficient Photoanode for Improved Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2017**, 9, 40235-40243	9.5	99
142	Highly Reversible and Durable Na Storage in Niobium Pentoxide through Optimizing Structure, Composition, and Nanoarchitecture. *Advanced Materials*, **2017**, 29, 1605607	24	97
141	Self-Powered, Flexible, and Solution-Processable Perovskite Photodetector Based on Low-Cost Carbon Cloth. *Small*, **2017**, 13, 1701042	11	94
140	Self-Supported 3D Array Electrodes for Sodium Microbatteries. *Advanced Functional Materials*, **2018**, 28, 1704880	15.6	92
139	Efficient, flexible and mechanically robust perovskite solar cells on inverted nanocone plastic substrates. *Nanoscale*, **2016**, 8, 4276-83	7.7	89
138	Doping-Induced Amorphization, Vacancy, and Gradient Energy Band in SnS Nanosheet Arrays for Improved Photoelectrochemical Water Splitting. *Angewandte Chemie - International Edition*, **2019**, 58, 6761-6765	16.4	87
137	Phase-Modulated Band Alignment in CdS Nanorod/SnSx Nanosheet Hierarchical Heterojunctions toward Efficient Water Splitting. *Advanced Functional Materials*, **2018**, 28, 1706785	15.6	82
136	A Novel Conductive Mesoporous Layer with a Dynamic Two-Step Deposition Strategy Boosts Efficiency of Perovskite Solar Cells to 20. *Advanced Materials*, **2018**, 30, e1801935	24	81
135	Tungsten Trioxide Nanostructures for Photoelectrochemical Water Splitting: Material Engineering and Charge Carrier Dynamic Manipulation. *Advanced Functional Materials*, **2019**, 29, 1809036	15.6	80
134	Simultaneous Manipulation of O-Doping and Metal Vacancy in Atomically Thin Zn In S Nanosheet Arrays toward Improved Photoelectrochemical Performance. *Angewandte Chemie - International Edition*, **2018**, 57, 16882-16887	16.4	75
133	Highly Efficient Sodium Storage in Iron Oxide Nanotube Arrays Enabled by Built-In Electric Field. *Advanced Materials*, **2019**, 31, e1902603	24	72
132	Bandgap-graded CdS(x)Se(1-x) nanowires for high-performance field-effect transistors and solar cells. *Advanced Materials*, **2013**, 25, 1109-13, 1082	24	71
131	Identifying the optimum thickness of electron transport layers for highly efficient perovskite planar solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 16445-16452	13	70
130	TiO Electron Transport Bilayer for Highly Efficient Planar Perovskite Solar Cell. *Small*, **2017**, 13, 1701535	11	67
129	Ultrahigh-Performance Flexible and Self-Powered Photodetectors with Ferroelectric P(VDF-TrFE)/Perovskite Bulk Heterojunction. *Advanced Functional Materials*, **2019**, 29, 1808415	15.6	63
128	High-performance UV□is photodetectors based on electrospun ZnO nanofiber-solution processed perovskite hybrid structures. *Nano Research*, **2017**, 10, 2244-2256	10	62
127	A Thermodynamically Favored Crystal Orientation in Mixed Formamidinium/Methylammonium Perovskite for Efficient Solar Cells. *Advanced Materials*, **2019**, 31, e1900390	24	62

126	Observing Defect Passivation of the Grain Boundary with 2-Aminoterephthalic Acid for Efficient and Stable Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2020**, 59, 4161-4167	16.4	61
125	Non-noble bimetallic NiMoO4 nanosheets integrated Si photoanodes for highly efficient and stable solar water splitting. *Nano Energy*, **2017**, 34, 8-14	17.1	60
124	Liquid medium annealing for fabricating durable perovskite solar cells with improved reproducibility. *Science*, **2021**, 373, 561-567	33.3	60
123	Materials Based on Antimony and Bismuth for Sodium Storage. *Chemistry - A European Journal*, **2018**, 24, 13719-13727	4.8	57
122	Three-Dimensional Microbatteries beyond Lithium Ion. *Matter*, **2020**, 2, 1366-1376	12.7	54
121	TiO Phase Junction Electron Transport Layer Boosts Efficiency of Planar Perovskite Solar Cells. *Advanced Science*, **2018**, 5, 1700614	13.6	54
120	High-performance Schottky solar cells using ZrS2 nanobelt networks. *Energy and Environmental Science*, **2011**, 4, 2586	35.4	54
119	Nanoimprinted Grating-Embedded Perovskite Solar Cells with Improved Light Management. *Advanced Functional Materials*, **2019**, 29, 1900830	15.6	53
118	Self-supported multicomponent CPO-27 MOF nanoarrays as high-performance anode for lithium storage. *Nano Energy*, **2019**, 57, 711-717	17.1	53
117	Semitransparent, Flexible, and Self-Powered Photodetectors Based on Ferroelectricity-Assisted Perovskite Nanowire Arrays. *Advanced Functional Materials*, **2019**, 29, 1901280	15.6	51
116	Modification Engineering in SnO2 Electron Transport Layer toward Perovskite Solar Cells: Efficiency and Stability. *Advanced Functional Materials*, **2020**, 30, 2004209	15.6	50
115	Regulation of Breathing CuO Nanoarray Electrodes for Enhanced Electrochemical Sodium Storage. *Advanced Functional Materials*, **2018**, 28, 1707179	15.6	48
114	Flexible and Self-Powered Lateral Photodetector Based on Inorganic Perovskite CsPbI3□CsPbBr3 Heterojunction Nanowire Array. *Advanced Functional Materials*, **2020**, 30, 1909771	15.6	45
113	Ultrathin Amorphous Ni(OH)2 Nanosheets on Ultrathin □Fe2O3 Films for Improved Photoelectrochemical Water Oxidation. *Advanced Materials Interfaces*, **2016**, 3, 1600256	4.6	45
112	Oxygen-deficient Ta2O5 nanoporous films as self-supported electrodes for lithium microbatteries. *Nano Energy*, **2018**, 45, 407-412	17.1	44
111	Interfacial Chemical Bond-Modulated Z-Scheme Charge Transfer for Efficient Photoelectrochemical Water Splitting. *Advanced Energy Materials*, **2021**, 11, 2003500	21.8	43
110	A multijunction of ZnIn2S4 nanosheet/TiO2 film/Si nanowire for significant performance enhancement of water splitting. *Nano Research*, **2015**, 8, 3524-3534	10	42
109	Durian-Inspired Design of Bismuth-Antimony Alloy Arrays for Robust Sodium Storage. *ACS Nano*, **2020**, 14, 9117-9124	16.7	41

108	Unraveling the Growth of Hierarchical Quasi-2D/3D Perovskite and Carrier Dynamics. *Journal of Physical Chemistry Letters*, **2018**, 9, 1124-1132	6.4	41
107	Interface reacted ZnFe2O4 on □Fe2O3 nanoarrays for largely improved photoelectrochemical activity. *RSC Advances*, **2015**, 5, 79440-79446	3.7	39
106	Low-dimensional nanomaterial/Si heterostructure-based photodetectors. *Informa□□Materi□y*, **2019**, 1, 140	23.1	38
105	Spontaneously Splitting Copper Nanowires into Quantum Dots on Graphdiyne for Suppressing Lithium Dendrites. *Advanced Materials*, **2020**, 32, e2004379	24	38
104	PVP Treatment Induced Gradient Oxygen Doping in In2S3 Nanosheet to Boost Solar Water Oxidation of WO3 Nanoarray Photoanode. *Advanced Energy Materials*, **2020**, 10, 1903951	21.8	38
103	Flexible three-dimensional SnO2 nanowire arrays: atomic layer deposition-assisted synthesis, excellent photodetectors, and field emitters. *ACS Applied Materials & Interfaces*, **2013**, 5, 7845-51	9.5	38
102	Self-Powered UV□Vis□NIR Photodetector Based on Conjugated-Polymer/CsPbBr3 Nanowire Array. *Advanced Functional Materials*, **2019**, 29, 1906756	15.6	37
101	Template-Free Construction of Self-Supported Sb Prisms with Stable Sodium Storage. *Advanced Energy Materials*, **2019**, 9, 1901096	21.8	37
100	Novel perovskite/TiO2/Si trilayer heterojunctions for high-performance self-powered ultraviolet-visible-near infrared (UV-Vis-NIR) photodetectors. *Nano Research*, **2018**, 11, 1722-1730	10	37
99	Nested Inverse Opal Perovskite toward Superior Flexible and Self-Powered Photodetection Performance. *Advanced Materials*, **2020**, 32, e1906974	24	36
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97	Adduct phases induced controlled crystallization for mixed-cation perovskite solar cells with efficiency over 21%. *Nano Energy*, **2019**, 63, 103867	17.1	34
96	Rooting binder-free tin nanoarrays into copper substrate via tin-copper alloying for robust energy storage. *Nature Communications*, **2020**, 11, 1212	17.4	33
95	Modulating oxygen vacancies in Sn-doped hematite film grown on silicon microwires for photoelectrochemical water oxidation. *Journal of Materials Chemistry A*, **2018**, 6, 15593-15602	13	33
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93	Hybrid Nanostructures for Photodetectors. *Advanced Optical Materials*, **2017**, 5, 1600468	8.1	32
92	In Situ Formed Gradient Bandgap-Tunable Perovskite for Ultrahigh-Speed Color/Spectrum-Sensitive Photodetectors via Electron-Donor Control. *Advanced Materials*, **2020**, 32, e1908108	24	30
91	Cathode Architectures for Rechargeable Ion Batteries: Progress and Perspectives. *Advanced Materials*, **2020**, 32, e2000288	24	29

90	Boosting Efficiency and Stability of Perovskite Solar Cells with CdS Inserted at TiO2/Perovskite Interface. *Advanced Materials Interfaces*, **2016**, 3, 1600729	4.6	29
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88	Theoretical Simulation and Modeling of Three-Dimensional Batteries. *Cell Reports Physical Science*, **2020**, 1, 100078	6.1	26
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82	Stability enhancement of lead-free CsSnI3 perovskite photodetector with reductive ascorbic acid additive. *Informa Materia*, **2020**, 2, 577-584	23.1	25
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79	Efficient perovskite solar cells based on novel three-dimensional TiO 2 network architectures. *Science Bulletin*, **2016**, 61, 778-786	10.6	25
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67	Optical Design in Perovskite Solar Cells. *Small Methods*, **2020**, 4, 1900150	12.8	20
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62	Advances in the Application of Atomic Layer Deposition for Organometal Halide Perovskite Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1600505	4.6	18
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57	2D Ruddlesden-Popper Perovskite with Ordered Phase Distribution for High-Performance Self-Powered Photodetectors. *Advanced Materials*, **2021**, 33, e2101714	24	17
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46	Nature-inspired Cu2O@CoO tree-like architecture for robust storage of sodium. *Journal of Materials Science and Technology*, **2020**, 53, 126-131	9.1	11
45	Realizing Stable Artificial Photon Energy Harvesting Based on Perovskite Solar Cells for Diverse Applications. *Small*, **2020**, 16, e1906681	11	11
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37	Multi-Metal Nanocluster Assisted Cu-Ga-Sn Tri-Doping for Enhanced Photoelectrochemical Water Splitting of BiVO4 Film. *Advanced Materials Interfaces*, **2020**, 7, 2000016	4.6	9

36	Structure and Band Alignment Engineering of CdS/TiO2/Bi2WO6 Trilayer Nanoflake Array for Efficient Photoelectrochemical Water Splitting. *ChemElectroChem*, **2019**, 6, 5248-5254	4.3	9
35	Laser-Manufactured Metastable Supranano SnOx for Efficient Electron/Ion Bridging in SnO2-Graphene Heterostructure Boosting Lithium Storage. *Advanced Functional Materials*, **2021**, 31, 2101059	15.6	9
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32	Chemical Modification toward Long Spin Lifetimes in Organic Conjugated Radicals. *ChemPhysChem*, **2018**, 19, 2972-2977	3.2	7
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20	Coagulated SnO2 Colloids for High-Performance Planar Perovskite Solar Cells with Negligible Hysteresis and Improved Stability. *Angewandte Chemie*, **2019**, 131, 11621	3.6	4
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