Xiang-Gao Li

List of Publications by Citations

126	3,608	29	56
papers	citations	h-index	g-index
129	4,266	7.5	5.7
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
126	Isomer-Pure Bis-PCBM-Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. *Advanced Materials*, **2017**, 29, 1606806	24	276
125	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. *Nano Energy*, **2017**, 41, 469-475	17.1	191
124	Full-Color Tunable Circularly Polarized Luminescent Nanoassemblies of Achiral AIEgens in Confined Chiral Nanotubes. *Advanced Materials*, **2017**, 29, 1606503	24	181
123	Tailored Amphiphilic Molecular Mitigators for Stable Perovskite Solar Cells with 23.5% Efficiency. *Advanced Materials*, **2020**, 32, e1907757	24	178
122	Mesoscopic TiO2/CH3NH3PbI3 perovskite solar cells with new hole-transporting materials containing butadiene derivatives. *Chemical Communications*, **2014**, 50, 6931-4	5.8	157
121	A Novel Dopant-Free Triphenylamine Based Molecular Butterfly Hole-Transport Material for Highly Efficient and Stable Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1600401	21.8	152
120	Amplification of Circularly Polarized Luminescence through Triplet-Triplet Annihilation-Based Photon Upconversion. *Journal of the American Chemical Society*, **2017**, 139, 9783-9786	16.4	143
119	Energy level tuning of TPB-based hole-transporting materials for highly efficient perovskite solar cells. *Chemical Communications*, **2014**, 50, 15239-42	5.8	128
118	Novel hole transporting materials with a linear conjugated structure for highly efficient perovskite solar cells. *Chemical Communications*, **2014**, 50, 5829-32	5.8	126
117	Impact of Peripheral Groups on Phenothiazine-Based Hole-Transporting Materials for Perovskite Solar Cells. *ACS Energy Letters*, **2018**, 3, 1145-1152	20.1	94
116	Simple way to engineer metal-semiconductor interface for enhanced performance of perovskite organic lead iodide solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 5651-6	9.5	88
115	A novel one-step synthesized and dopant-free hole transport material for efficient and stable perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 16330-16334	13	78
114	Dopant-Free Donor (D)-D-D Conjugated Hole-Transport Materials for Efficient and Stable Perovskite Solar Cells. *ChemSusChem*, **2016**, 9, 2578-2585	8.3	75
113	Tuning the crystal growth of perovskite thin-films by adding the 2-pyridylthiourea additive for highly efficient and stable solar cells prepared in ambient air. *Journal of Materials Chemistry A*, **2017**, 5, 13448-13456	13	74
112	Dopant-free star-shaped hole-transport materials for efficient and stable perovskite solar cells. *Dyes and Pigments*, **2017**, 136, 273-277	4.6	73
111	Synergistic Effect of Fluorinated Passivator and Hole Transport Dopant Enables Stable Perovskite Solar Cells with an Efficiency Near 24. *Journal of the American Chemical Society*, **2021**, 143, 3231-3237	16.4	73
110	Suppressing defects through thiadiazole derivatives that modulate CH3NH3PbI3 crystal growth for highly stable perovskite solar cells under dark conditions. *Journal of Materials Chemistry A*, **2018**, 6, 4971-4980	13	68

109	Efficient CH3NH3PbI3 perovskite solar cells with 2TPA-n-DP hole-transporting layers. *Nano Research*, **2015**, 8, 1116-1127	10	60
108	Enhanced stability and optoelectronic properties of MAPbI3 films by a cationic surface-active agent for perovskite solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 10825-10834	13	56
107	Carbon Nanotube Bridging Method for Hole Transport Layer-Free Paintable Carbon-Based Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 916-923	9.5	49
106	Highly Efficient p-i-n Perovskite Solar Cells Utilizing Novel Low-Temperature Solution-Processed Hole Transport Materials with Linear □Conjugated Structure. *Small*, **2016**, 12, 4902-4908	11	48
105	Dopant-free and low-cost molecular □ee□hole-transporting materials for efficient and stable perovskite solar cells. *Journal of Materials Chemistry C*, **2017**, 5, 11429-11435	7.1	36
104	Recent Progress of Perovskite Solar Cells. *Current Nanoscience*, **2016**, 12, 137-156	1.4	36
103	A thin pristine non-triarylamine hole-transporting material layer for efficient CH3NH3PbI3 perovskite solar cells. *RSC Advances*, **2014**, 4, 32918	3.7	35
102	Solution-processed thermally stable amorphous films of small molecular hole injection/transport bi-functional materials and their application in high efficiency OLEDs. *Journal of Materials Chemistry C*, **2015**, 3, 11377-11384	7.1	33
101	Preparation of Mono-Dispersed Polyurea-Urea Formaldehyde Double Layered Microcapsules. *Polymer Bulletin*, **2008**, 60, 725-731	2.4	33
100	Structural Stability of Formamidinium- and Cesium-Based Halide Perovskites. *ACS Energy Letters*, **2021**, 6, 1942-1969	20.1	31
99	Low-Cost Dopant Additive-Free Hole-Transporting Material for a Robust Perovskite Solar Cell with Efficiency Exceeding 21%. *ACS Energy Letters*, **2021**, 6, 208-215	20.1	30
98	Stable Perovskite Solar Cells based on Hydrophobic Triphenylamine Hole-Transport Materials. *Energy Technology*, **2017**, 5, 312-320	3.5	29
97	A bipolar emitting material for high efficient non-doped fluorescent organic light-emitting diode approaching standard deep blue. *Dyes and Pigments*, **2016**, 129, 34-42	4.6	29
96	Novel carbazolyl-substituted spiro[acridine-9,9?-fluorene] derivatives as deep-blue emitting materials for OLED applications. *Dyes and Pigments*, **2018**, 154, 30-37	4.6	27
95	Molecular design and photovoltaic performance of a novel thiocyanate-based layered organometal perovskite material. *Synthetic Metals*, **2016**, 215, 56-63	3.6	27
94	Mixed cations and mixed halide perovskite solar cell with lead thiocyanate additive for high efficiency and long-term moisture stability. *Organic Electronics*, **2018**, 53, 249-255	3.5	27
93	Enhancing quantum yield of CsPb(BrxCl1-x)3 nanocrystals through lanthanum doping for efficient blue light-emitting diodes. *Nano Energy*, **2020**, 77, 105302	17.1	26
92	A Novel Spiro[acridine-9,9'-fluorene] Derivatives Containing Phenanthroimidazole Moiety for Deep-Blue OLED Application. *Chemistry - an Asian Journal*, **2017**, 12, 3069-3076	4.5	24

91	Novel Synthesis and Characterization of Yellow Inorganic/Organic Composite Spheres for Electrophoretic Display. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1468-1475	3.9	24
90	A novel bipolar carbazole/ phenanthroimidazole derivative for high efficiency nondoped deep-blue organic light-emitting diodes. *Organic Electronics*, **2019**, 64, 259-265	3.5	23
89	Organic Single-Crystalline p-n Heterojunctions for High-Performance Ambipolar Field-Effect Transistors and Broadband Photodetectors. *ACS Applied Materials & Interfaces*, **2018**, 10, 42715-42722	9.5	23
88	Highly solvatochromic fluorescence of anthraquinone dyes based on triphenylamines. *Dyes and Pigments*, **2017**, 144, 262-270	4.6	21
87	Impact of 9-(4-methoxyphenyl) Carbazole and Benzodithiophene Cores on Performance and Stability for Perovskite Solar Cells Based on Dopant-Free Hole-Transporting Materials. *Solar Rrl*, **2019**, 3, 1900202	7.1	21
86	Electrochromic properties of novel chalcones containing triphenylamine moiety. *Dyes and Pigments*, **2014**, 106, 154-160	4.6	21
85	Efficient, Stable, Dopant-Free Hole-Transport Material with a Triphenylamine Core for CH3NH3PbI3 Perovskite Solar Cells. *Energy Technology*, **2017**, 5, 1173-1178	3.5	21
84	Position effect of arylamine branches on pyrene-based dopant-free hole transport materials for efficient and stable perovskite solar cells. *Chemical Engineering Journal*, **2020**, 387, 123965	14.7	21
83	A trap-assisted ultrasensitive near-infrared organic photomultiple photodetector based on Y-type titanylphthalocyanine nanoparticles. *Journal of Materials Chemistry C*, **2016**, 4, 5584-5592	7.1	21
82	Advances in SnO2-based perovskite solar cells: from preparation to photovoltaic applications. *Journal of Materials Chemistry A*, **2021**, 9, 19554-19588	13	21
81	Improvement in photovoltaic performance of perovskite solar cells by interface modification and co-sensitization with novel asymmetry 7-coumarinoxy-4-methyltetrasubstituted metallophthalocyanines. *Synthetic Metals*, **2016**, 220, 187-193	3.6	20
80	Carbazole-diphenylimidazole based bipolar material and its application in blue, green and red single layer OLEDs by solution processing. *Dyes and Pigments*, **2017**, 142, 175-182	4.6	19
79	Room-temperature-processed fullerene single-crystalline nanoparticles for high-performance flexible perovskite photovoltaics. *Journal of Materials Chemistry A*, **2019**, 7, 1509-1518	13	19
78	2,9,16,23-Tetrakis(7-coumarinoxy-4-methyl)- metallophthalocyanines -based hole transporting material for mixed-perovskite solar cells. *Synthetic Metals*, **2017**, 226, 1-6	3.6	18
77	Application of phenonaphthazine derivatives as hole-transporting materials for perovskite solar cells. *Journal of Energy Chemistry*, **2016**, 25, 702-708	12	18
76	Preparation of high efficiency hollow TiO2 nanospheres for electrophoretic displays. *Materials Letters*, **2012**, 74, 1-4	3.3	17
75	Hydrazinium cation mixed FAPbI3-based perovskite with 1D/3D hybrid dimension structure for efficient and stable solar cells. *Chemical Engineering Journal*, **2021**, 403, 125724	14.7	17
74	Dopant-Free Hole-Transport Material with a Tetraphenylethene Core for Efficient Perovskite Solar Cells. *Energy Technology*, **2017**, 5, 1257-1264	3.5	16

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72	Modification of ITO anodes with self-assembled monolayers for enhancing hole injection in OLEDs. *Applied Physics Letters*, **2019**, 114, 153301	3.4	15
71	Organic Single-Crystalline Donor–Acceptor Heterojunctions with Ambipolar Band-Like Charge Transport for Photovoltaics. *Advanced Materials Interfaces*, **2018**, 5, 1800336	4.6	15
70	Study on synthesis and properties of novel luminescent hole transporting materials based on N,N?-di(p-tolyl)-N,N?-diphenyl-1,1?-biphenyl-4,4?-diamine core. *Dyes and Pigments*, **2013**, 97, 92-99	4.6	15
69	Self-assembled monolayer-modified ITO for efficient organic light-emitting diodes: The impact of different self-assemble monolayers on interfacial and electroluminescent properties. *Organic Electronics*, **2018**, 56, 89-95	3.5	14
68	Fast-response and monodisperse silica nanoparticles modified with ionic liquid towards electrophoretic displays. *Dyes and Pigments*, **2018**, 148, 270-275	4.6	14
67	How to apply metal halide perovskites to photocatalysis: challenges and development. *Nanoscale*, **2021**, 13, 10281-10304	7.7	14
66	Achieving highly efficient blue light-emitting polymers by incorporating a styrylarylene amine unit. *Journal of Materials Chemistry C*, **2018**, 6, 12355-12363	7.1	14
65	A thermally cross-linked hole-transporting film with the remarkable solvent resistance for solution-processed OLEDs. *Organic Electronics*, **2018**, 57, 345-351	3.5	13
64	Film-forming hole transporting materials for high brightness flexible organic light-emitting diodes. *Dyes and Pigments*, **2016**, 125, 36-43	4.6	13
63	The preparation of high photosensitive TiOPc. *Dyes and Pigments*, **2007**, 72, 38-41	4.6	13
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61	Design of high-performance chlorine type dyes for dye-sensitized solar cells. *International Journal of Quantum Chemistry*, **2014**, 114, 222-232	2.1	12
60	Preparation and properties of red inorganic hollow nanospheres for electrophoretic display. *Applied Surface Science*, **2014**, 317, 319-324	6.7	12
59	Novel photochromic and electrochromic diarylethenes bearing triphenylamine units. *RSC Advances*, **2014**, 4, 16839-16848	3.7	11
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56	Alcohol-Soluble Electron-Transport Materials for Fully Solution-Processed Green PhOLEDs. *Chemistry - an Asian Journal*, **2018**, 13, 1335-1341	4.5	10

55	The modulation of opto-electronic properties of CH3NH3PbBr3 crystal. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 11053-11058	2.1	9
54	Achieving non-doped deep-blue OLEDs by applying bipolar imidazole derivatives. *Organic Electronics*, **2019**, 69, 289-296	3.5	9
53	Nano titanium dioxide particles modified with poly(lauryl methacrylate) and its electrorheological and electrophoretic behavior. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 457, 250-255	5.1	9
52	Thermally induced crystallization behavior and film microstructure alteration of N,N,N?,N?-tetraphenylbenzidine (TPB) and N,N,N?,N?-tetra-p-tolyl-benzidine (TTB). *Organic Electronics*, **2014**, 15, 1876-1883	3.5	9
51	Highly efficient hole injection/transport layer-free OLEDs based on self-assembled monolayer modified ITO by solution-process. *Nano Energy*, **2020**, 78, 105399	17.1	9
50	Regulation of peripheral tert-butyl position: Approaching efficient blue OLEDs based on solution-processable hole-transporting materials. *Organic Electronics*, **2019**, 71, 85-92	3.5	8
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48	Transformation of Quasi-2D Perovskite into 3D Perovskite Using Formamidine Acetate Additive for Efficient Blue Light-Emitting Diodes. *Advanced Functional Materials*,2105164	15.6	8
47	Chemically doped hole transporting materials with low cross-linking temperature and high mobility for solution-processed green/red PHOLEDs. *Chemical Engineering Journal*, **2020**, 391, 123479	14.7	8
46	A low-cost thiophene-based hole transport material for efficient and stable perovskite solar cells. *Organic Electronics*, **2019**, 71, 194-198	3.5	7
45	Charging behavior of carbon black in a low-permittivity medium based on acidBase charging theory. *Journal of Materials Chemistry C*, **2015**, 3, 3980-3988	7.1	7
44	Controllable self-assembly of BiOI/oxidized mesocarbon microbeads core-shell composites: A novel hierarchical structure facilitated photocatalytic activities. *Chemical Engineering Science*, **2020**, 221, 115653	4.4	7
43	Electronic Coordination Effect of the Regulator on Perovskite Crystal Growth and Its High-Performance Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 19439-19446	9.5	7
42	Preparation and characterization core-shell particles and application for E-Ink. *Journal of Applied Polymer Science*, **2007**, 104, 1195-1199	2.9	7
41	Synthesis of nanosized Y-type TiOPc by a high gravity method. *Journal of Materials Science*, **2005**, 40, 4373-4374	4.3	7
40	Beyond efficiency fever: Preventing lead leakage for perovskite solar cells. *Matter*, **2022**, 5, 1137-1161	12.7	7
39	Effect of concomitant anti-solvent engineering on perovskite grain growth and its high efficiency solar cells. *Science China Materials*, **2021**, 64, 267-276	7.1	6
38	Boosting the Stability of Perovskite Solar Cells through a Dopant-Free Tetraphenylbenzidine-Based Hole Transporting Material. *ChemistrySelect*, **2018**, 3, 13032-13037	1.8	6

37	Preparation of titanium dioxide nano-particles modified with poly (methyl methacrylate) and its electrorheological characteristics in Isopar L. *Colloid and Polymer Science*, **2015**, 293, 473-479	2.4	5
36	Improving the Performance of Blue Polymer Light-Emitting Diodes Using a Hole Injection Layer with a High Work Function and Nanotexture. *ACS Applied Materials & Interfaces*, **2020**, 12, 20750-20756	9.5	5
35	The core-shell mesoporous titanium dioxide with in-situ nitrogen doped carbon as the anode for high performance lithium-ion battery. *Journal of Alloys and Compounds*, **2019**, 806, 946-952	5.7	5
34	In Situ Synthesized 2D Covalent Organic Framework Nanosheets Induce Growth of High-Quality Perovskite Film for Efficient and Stable Solar Cells. *Advanced Functional Materials*,2110030	15.6	5
33	Hole-transporting material based on spirobifluorene unit with perfect amorphous and high stability for efficient OLEDs. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 11440-11450	2.1	4
32	Polymorph-induced photosensitivity change in titanylphthalocyanine revealed by the charge transfer integral. *Nanophotonics*, **2019**, 8, 787-797	6.3	4
31	Hole transport layer-free deep-blue OLEDs with outstanding colour purity and high efficiency. *Journal of Materials Chemistry C*, **2020**, 8, 9184-9188	7.1	4
30	Studies on the charging behaviors of copper chromite black in nonpolar media with nonionic surfactants for electrophoretic displays. *Journal of Materials Chemistry C*, **2016**, 4, 323-330	7.1	4
29	Identifying high-performance and durable methylammonium-free lead halide perovskites via high-throughput synthesis and characterization. *Energy and Environmental Science*, **2021**, 14, 6638-6654	35.4	4
28	Preparation of TiO2 Nano-particles with Controllable Surface Charges for Electrophoretic Display. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2012**, 27, 649-654	1	4
27	Efficient and Stable Large Bandgap MAPbBr3 Perovskite Solar Cell Attaining an Open Circuit Voltage of 1.65 V. *ACS Energy Letters*, **2022**, 7, 1112-1119	20.1	4
26	Influence of the number of phenylethynyl units present in porphyrin sensitizer on its light harvesting and cell performance. *Research on Chemical Intermediates*, **2015**, 41, 8713-8724	2.8	3
25	Synthesis, Spectral Properties of Zinc Hexadecafluorophthalocyanine (ZnPcF16) and Its Application in Organic Thin Film Transistors. *Materials Transactions*, **2017**, 58, 103-106	1.3	3
24	Studies on the dispersity of polymethacrylate-grafted carbon black in a non-aqueous medium: the influence of monomer structure. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 2022-2030	2.1	3
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22	Blue nanocomposites coated with an ionic liquid polymer for electrophoretic displays.. *RSC Advances*, **2021**, 11, 20760-20768	3.7	3
21	Novel electron transporting materials for highly efficient fully solution-processed green PhOLEDs with low rolls-off and drive voltage. *Dyes and Pigments*, **2018**, 158, 20-27	4.6	2
20	Preparation of titanium dioxide nanoparticles modified with methacrylate and their electrophoretic properties. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 5263-5269	2.1	2

19	Preparation and characterization of TiO2/SiO2-cationic hybrid nanoparticles for electrophoretic displays. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	2
18	In situ construction of Bi5O7I/Bi4Ti3O12 heterostructure composites with plentiful phase interfaces for the boosted selective oxidation of benzylic alcohols under visible light. *Journal of Materials Chemistry C*,	7.1	2
17	Polymer additive assisted crystallization of perovskite films for high-performance solar cells. *Organic Electronics*, **2021**, 96, 106258	3.5	2
16	Inkjet-printed alloy-like cross-linked hole-transport layer for high-performance solution-processed green phosphorescent OLEDs. *Journal of Materials Chemistry C*, **2021**, 9, 12712-12719	7.1	2
15	Butterfly-like Tetraazaacenequinodimethane Derivatives: Synthesis, Structure and Halochromic Properties. *Chemistry - an Asian Journal*, **2020**, 15, 2198-2202	4.5	1
14	Bifunctional spiro-fluorene/heterocycle cored hole-transporting materials: Role of the heteroatom on the photovoltaic performance of perovskite solar cells. *Chemical Engineering Journal*, **2021**, 431, 133371	14.7	1
13	Catalytic reduction of 1,4-benzoquinone to hydroquinone via [FeFe]-hydrogenase model complexes under mild conditions. *Journal of Chemical Technology and Biotechnology*, **2020**, 95, 1250	3.5	1
12	Solution-processed phosphorus-tungsten oxide film as hole injection layer for application in efficient organic light-emitting diode. *Materials Science in Semiconductor Processing*, **2018**, 85, 106-112	4.3	1
11	Tunable White Light-Emitting Devices Based on Unilaminar High-Efficiency Zn-Doped Blue CsPbBr Quantum Dots. *Journal of Physical Chemistry Letters*, **2021**, 12, 8507-8512	6.4	1
10	Zn2+-Doped Lead-Free CsMnCl3 Nanocrystals Enable Efficient Red Emission with a High Photoluminescence Quantum Yield. *Journal of Physical Chemistry Letters*, **2022**, 13, 4688-4694	6.4	1
9	Enhanced efficiency and stability of organic light-emitting diodes via binary self-assembled monolayers of aromatic and aliphatic compounds on indium tin oxide. *Organic Electronics*, **2020**, 84, 105752	3.5	0
8	Blue emissive dimethylmethylene-bridged triphenylamine derivatives appending cross-linkable groups. *Organic and Biomolecular Chemistry*, **2020**, 18, 3754-3760	3.9	0
7	Low-temperature cross-linkable hole transporting materials through chemical doping for solution-processed green PHOLEDs. *Organic Electronics*, **2021**, 99, 106334	3.5	0
6	Low-temperature processed cross-linkable hole transport layer for efficient and stable perovskite solar cells. *Chemical Engineering Journal*, **2021**, 426, 131872	14.7	0
5	Enhancing hole injection by processing ITO through MoO3 and self-assembled monolayer hybrid modification for solution-processed hole transport layer-free OLEDs. *Chemical Engineering Journal*, **2022**, 427, 131356	14.7	0
4	Triazine-based OLEDs with simplified structure and high efficiency by solution-processed procedure. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 19943-19949	2.1	
3	Controllable and efficient hole-injection layers with molybdenum oxide units by solution-processed procedure for OLEDs. *Organic Electronics*, **2020**, 85, 105868	3.5	
2	Preparation and Characterization of Coloured Polymer Particles for Electronic Ink. *Polymers and Polymer Composites*, **2017**, 25, 161-166	0.8	

1 Synthesis and photoconductivities of bisazo charge generation materials. *Frontiers of Chemical Engineering in China*, **2008**, 2, 330-334