Lin-Long Deng

List of Publications by Year in Descending Order

33 papers	1,000 citations	17 h-index	31 g-index
34 ext. papers	1,178 ext. citations	8.9 avg, IF	4.3 L-index

#	Paper	IF	Citations
33	Corannulene-based hole-transporting material for efficient and stable perovskite solar cells. *Cell Reports Physical Science*, **2021**, 2, 100662	6.1	5
32	Radiation-processed perovskite solar cells with fullerene-enhanced performance and stability. *Cell Reports Physical Science*, **2021**, 2, 100646	6.1	2
31	Isomer-Dependent Photovoltaic Properties of the [6,6]-Phenyl-C61 (or C71)-Butyric Acid Methyl Esters. *Solar Rrl*, **2021**, 5, 2000816	7.1	3
30	Cross-linkable fullerene interfacial contacts for enhancing humidity stability of inverted perovskite solar cells. *Rare Metals*, **2021**, 40, 1691-1697	5.5	4
29	Low-Temperature Aging Provides 22% Efficient Bromine-Free and Passivation Layer-Free Planar Perovskite Solar Cells. *Nano-Micro Letters*, **2020**, 12, 84	19.5	20
28	Star-like hexakis[di(ethoxycarbonyl)methano]-C60 with higher electron mobility: An unexpected electron extractor interfaced in photovoltaic perovskites. *Nano Energy*, **2020**, 74, 104859	17.1	10
27	The mechanism of universal green antisolvents for intermediate phase controlled high-efficiency formamidinium-based perovskite solar cells. *Materials Horizons*, **2020**, 7, 934-942	14.4	32
26	Mixed Fullerene Electron Transport Layers with Fluorocarbon Chains Assembling on the Surface: A Moisture-Resistant Coverage for Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 35081-35087	9.5	9
25	Hybrid Fullerene-Based Electron Transport Layers Improving the Thermal Stability of Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 20733-20740	9.5	21
24	Pyridine-Functionalized Fullerene Electron Transport Layer for Efficient Planar Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 23982-23989	9.5	25
23	[6,6]-Phenyl-C-Butyric Acid Methyl Ester/Cerium Oxide Bilayer Structure as Efficient and Stable Electron Transport Layer for Inverted Perovskite Solar Cells. *ACS Nano*, **2018**, 12, 2403-2414	16.7	86
22	Photovoltaic performance and stability of fullerene/cerium oxide double electron transport layer superior to single one in p-i-n perovskite solar cells. *Journal of Power Sources*, **2018**, 389, 13-19	8.9	12
21	Interfacing Pristine C60 onto TiO2 for Viable Flexibility in Perovskite Solar Cells by a Low-Temperature All-Solution Process. *Advanced Energy Materials*, **2018**, 8, 1800399	21.8	57
20	Formulation of PC71BM isomers in P3HT-based polymer solar cells. *Solar Energy Materials and Solar Cells*, **2018**, 176, 340-345	6.4	7
19	Fullerene-Based Materials for Photovoltaic Applications: Toward Efficient, Hysteresis-Free, and Stable Perovskite Solar Cells. *Advanced Electronic Materials*, **2018**, 4, 1700435	6.4	74
18	From C60Ph5Cl to C60Ph6: complete phenylation of C60 derivative renders superior organic photovoltaic performance. *Journal of Materials Chemistry C*, **2018**, 6, 12721-12727	7.1	4
17	Solution-Processed Cu(In, Ga)(S, Se) Nanocrystal as Inorganic Hole-Transporting Material for Efficient and Stable Perovskite Solar Cells. *Nanoscale Research Letters*, **2017**, 12, 159	5	31

List of Publications

16	Two cyclohexanofullerenes used as electron transport materials in perovskite solar cells. *Inorganica Chimica Acta*, **2017**, 468, 146-151	2.7	9
15	Cerium oxide standing out as an electron transport layer for efficient and stable perovskite solar cells processed at low temperature. *Journal of Materials Chemistry A*, **2017**, 5, 1706-1712	13	90
14	Di-isopropyl ether assisted crystallization of organic-inorganic perovskites for efficient and reproducible perovskite solar cells. *Nanoscale*, **2017**, 9, 17893-17901	7.7	13
13	Pristine fullerenes mixed by vacuum-free solution process: Efficient electron transport layer for planar perovskite solar cells. *Journal of Power Sources*, **2017**, 339, 27-32	8.9	27
12	Tailorable PC BM Isomers: Using the Most Prevalent Electron Acceptor to Obtain High-Performance Polymer Solar Cells. *Chemistry - A European Journal*, **2016**, 22, 18709-18713	4.8	13
11	Stereomeric effects of bisPC 71 BM on polymer solar cell performance. *Science Bulletin*, **2016**, 61, 132-138	10.6	25
10	Theoretical insight into the stereometric effect of bisPC 71 BM on polymer cell performance. *Science Bulletin*, **2016**, 61, 139-147	10.6	17
9	Formulation engineering for optimizing ternary electron acceptors exemplified by isomeric PC71BM in planar perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 18776-18782	13	22
8	Efficient Perovskite Solar Cells Depending on TiO2 Nanorod Arrays. *ACS Applied Materials & Interfaces*, **2016**, 8, 21358-65	9.5	102
7	Low-cost solution-processed copper iodide as an alternative to PEDOT:PSS hole transport layer for efficient and stable inverted planar heterojunction perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 19353-19359	13	191
6	Bis-adducts of benzocyclopentane- and acenaphthene-C60 superior to mono-adducts as electron acceptors in polymer solar cells. *Solar Energy Materials and Solar Cells*, **2014**, 125, 198-205	6.4	11
5	High LUMO energy level C60(OCH3)4 derivatives: Electronic acceptors for photovoltaic cells with higher open-circuit voltage. *Solar Energy Materials and Solar Cells*, **2013**, 111, 193-199	6.4	19
4	Combustion synthesis and electrochemical properties of the small hydrofullerene C50H10. *Chemistry - A European Journal*, **2012**, 18, 3408-15	4.8	13
3	Functionalized dihydronaphthyl-C60 derivatives as acceptors for efficient polymer solar cells with tunable photovoltaic properties. *Solar Energy Materials and Solar Cells*, **2012**, 104, 113-120	6.4	24
2	Retrieving the most prevalent small fullerene C56. *Chemistry - A European Journal*, **2011**, 17, 8529-32	4.8	19
1	Crystallographic Understanding of Photoelectric Properties for C60 Derivatives Applicable as Electron Transporting Materials in Perovskite Solar Cells. *Chemical Research in Chinese Universities*,1	2.2	3