

Licheng Tan

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94
papers

2,267
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98
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2,934
ext. citations

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5.37
L-index

#	Paper	IF	Citations
94	When Al-Doped Cobalt Sulfide Nanosheets Meet Nickel Nanotube Arrays: A Highly Efficient and Stable Cathode for Asymmetric Supercapacitors. <i>ACS Nano</i> , 2018 , 12, 3030-3041	16.7	148
93	High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide. <i>Advanced Energy Materials</i> , 2019 , 9, 1900198	21.8	133
92	Nucleation and Crystallization Control via Polyurethane to Enhance the Bendability of Perovskite Solar Cells with Excellent Device Performance. <i>Advanced Functional Materials</i> , 2017 , 27, 1703061	15.6	116
91	Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability. <i>Advanced Functional Materials</i> , 2019 , 29, 1808059	15.6	93
90	Grain Boundary Modification via F4TCNQ To Reduce Defects of Perovskite Solar Cells with Excellent Device Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1909-1916	9.5	91
89	A Facile approach to NiCoO ₂ intimately standing on nitrogen doped graphene sheets by one-step hydrothermal synthesis for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7121-7131	13	83
88	A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells. <i>Advanced Materials</i> , 2019 , 31, e1903649	24	81
87	Water-Resistant and Flexible Perovskite Solar Cells via a Glued Interfacial Layer. <i>Advanced Functional Materials</i> , 2019 , 29, 1902629	15.6	64
86	Enhancing the grain size of organic halide perovskites by sulfonate-carbon nanotube incorporation in high performance perovskite solar cells. <i>Chemical Communications</i> , 2016 , 52, 5674-7	5.8	62
85	Stretchable Perovskite Solar Cells with Recoverable Performance. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16602-16608	16.4	57
84	Large-Scale Stretchable Semiembedded Copper Nanowire Transparent Conductive Films by an Electrospinning Template. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26468-26475	9.5	55
83	Controlling Crystal Growth via an Autonomously Longitudinal Scaffold for Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2000617	24	55
82	Regulated Crystallization of Efficient and Stable Tin-Based Perovskite Solar Cells via a Self-Sealing Polymer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14049-14056	9.5	52
81	A General Electrodeposition Strategy for Fabricating Ultrathin Nickel Cobalt Phosphate Nanosheets with Ultrahigh Capacity and Rate Performance. <i>ACS Nano</i> , 2020 , 14, 14201-14211	16.7	50
80	Triple Dipole Effect from Self-Assembled Small-Molecules for High Performance Organic Photovoltaics. <i>Advanced Materials</i> , 2016 , 28, 4852-60	24	46
79	CoO Supraparticle-Based Bubble Nanofiber and Bubble Nanosheet with Remarkable Electrochemical Performance. <i>Advanced Science</i> , 2019 , 6, 1900107	13.6	43
78	Construction of facile ion and electron diffusion by hierarchical core-branch Zn substituted NiCoS nanocomposite for high-performance asymmetric supercapacitors. <i>Carbon</i> , 2019 , 153, 531-538	10.4	41

77	Hierarchical Nanosheets/Walls Structured Carbon-Coated Porous Vanadium Nitride Anodes Enable Wide-Voltage-Window Aqueous Asymmetric Supercapacitors with High Energy Density. <i>Advanced Science</i> , 2019 , 6, 1900550	13.6	40
76	A novel thermal and pH responsive drug delivery system based on ZnO@PNIPAM hybrid nanoparticles. <i>Materials Science and Engineering C</i> , 2014 , 45, 524-9	8.3	38
75	Printable and Large-Area Organic Solar Cells Enabled by a Ternary Pseudo-Planar Heterojunction Strategy. <i>Advanced Functional Materials</i> , 2020 , 30, 2003223	15.6	36
74	A bendable nickel oxide interfacial layer via polydopamine crosslinking for flexible perovskite solar cells. <i>Chemical Communications</i> , 2019 , 55, 3666-3669	5.8	35
73	Highly Efficient Flexible Polymer Solar Cells with Robust Mechanical Stability. <i>Advanced Science</i> , 2019 , 6, 1801180	13.6	35
72	Preparation of efficient inverted tin-based perovskite solar cells via the bidentate coordination effect of 8-hydroxyquinoline. <i>Chemical Communications</i> , 2020 , 56, 4007-4010	5.8	35
71	Fluorinated Reduced Graphene Oxide as an Efficient Hole-Transport Layer for Efficient and Stable Polymer Solar Cells. <i>ACS Omega</i> , 2017 , 2, 2010-2016	3.9	33
70	High-Efficiency (16.93%) Pseudo-Planar Heterojunction Organic Solar Cells Enabled by Binary Additives Strategy. <i>Advanced Functional Materials</i> , 2021 , 31, 2102291	15.6	31
69	In situ polymerization of ethylenedioxythiophene from sulfonated carbon nanotube templates: toward high efficiency ITO-free solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6645-6652	13	28
68	Crystallization and conformation engineering of solution-processed polymer transparent electrodes with high conductivity. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 382-389	7.1	27
67	Unraveling the Morphology in Solution-Processed Pseudo-Bilayer Planar Heterojunction Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26213-26221	9.5	25
66	Obstructing interfacial reaction between NiOx and perovskite to enable efficient and stable inverted perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021 , 426, 131357	14.7	23
65	Highly stable Al-doped ZnO by ligand-free synthesis as general thickness-insensitive interlayers for organic solar cells. <i>Science China Chemistry</i> , 2018 , 61, 127-134	7.9	22
64	An in situ bifacial passivation strategy for flexible perovskite solar module with mechanical robustness by roll-to-roll fabrication. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5759-5768	13	21
63	Construction of a hierarchical carbon coated Fe ₃ O ₄ nanorod anode for 2.6 V aqueous asymmetric supercapacitors with ultrahigh energy density. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27313-27322	13	20
62	Roll-to-Roll Fabrication of Flexible Orientated Graphene Transparent Electrodes by Shear Force and One-Step Reducing Post-Treatment. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700138	6.8	18
61	Liquid-crystalline ionic liquids modified conductive polymers as a transparent electrode for indium-free polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22316-22324	13	18
60	Roll-To-Roll Printing of Meter-Scale Composite Transparent Electrodes with Optimized Mechanical and Optical Properties for Photoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8917-8925	9.5	18

59	Acetic Acid-Assisted Synergistic Modulation of Crystallization Kinetics and Inhibition of Sn ²⁺ Oxidation in Tin-Based Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2109631	15.6	18
58	Hybrid bulk heterojunction solar cells based on the cooperative interaction of liquid crystals within quantum dots and diblock copolymers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11692-702	9.5	17
57	3-Dimensional ZnO/CdS nanocomposite with high mobility as an efficient electron transport layer for inverted polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12175-82	3.6	17
56	Versatile MoS ₂ Nanosheets in ITO-Free and Semi-transparent Polymer Power-generating Glass. <i>Scientific Reports</i> , 2015 , 5, 12161	4.9	16
55	A Biomimetic Self-Shield Interface for Flexible Perovskite Solar Cells with Negligible Lead Leakage. <i>Advanced Functional Materials</i> , 2106460	15.6	16
54	Self-assembled buffer layer from conjugated diblock copolymers with ethyleneoxide side chains for high efficiency polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8054-8064	7.1	15
53	Understanding the Mechanism between Antisolvent Dripping and Additive Doping Strategies on the Passivation Effects in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56151-56160 ¹⁵	9.5	15
52	A facile approach towards chemical modification of Ag nanowires by PEDOT as a transparent electrode for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 312-319	7.1	15
51	Elimination of Interfacial Lattice Mismatch and Detrimental Reaction by Self-Assembled Layer Dual-Passivation for Efficient and Stable Inverted Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022 , 12, 2103674	21.8	15
50	Stabilized and Operational PbI ₂ Precursor Ink for Large-Scale Perovskite Solar Cells via Two-Step Blade-Coating. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8129-8139	3.8	14
49	High-Performance Polymer Solar Cells Realized by Regulating the Surface Properties of PEDOT:PSS Interlayer from Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27018-27025	9.5	14
48	Minimization of ion transport resistance: diblock copolymer micelle derived nitrogen-doped hierarchically porous carbon spheres for superior rate and power Zn-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8435-8443	13	14
47	Crystallization, morphology, and mechanical properties of poly(butylene succinate)/poly(ethylene oxide)-polyhedral oligomeric silsesquioxane nanocomposites. <i>Polymer Engineering and Science</i> , 2012 , 52, 2063-2070	2.3	13
46	Synthesis of novel biodegradable poly(butylene succinate) copolyesters composing of isosorbide and poly(ethylene glycol). <i>Journal of Applied Polymer Science</i> , 2011 , 121, 2291-2300	2.9	13
45	Ionic Liquid-Induced Ostwald Ripening Effect for Efficient and Stable Tin-Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15420-15428	9.5	13
44	Electroless deposition of silver grids flexible transparent electrode integrated by ultra-violet nanoimprint lithography. <i>Organic Electronics</i> , 2019 , 75, 105408	3.5	12
43	Tunable size and sensitization of ZnO nanoarrays as electron transport layers for enhancing photocurrent of photovoltaic devices. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 828-835	7.1	12
42	Silver Mesh Electrodes via Electroless Deposition-Coupled Inkjet-Printing Mask Technology for Flexible Polymer Solar Cells. <i>Langmuir</i> , 2019 , 35, 9713-9720	4	12

41	In Situ Fabricating One-Dimensional Donor-Acceptor Core-Shell Hybrid Nanobeams Network Driven by Self-Assembly of Diblock Copolythiophenes. <i>Macromolecules</i> , 2014 , 47, 1757-1767	5.5	12
40	Large-scale ultra-adhesive and mechanically flexible silver grids transparent electrodes by solution process. <i>Organic Electronics</i> , 2018 , 61, 296-303	3.5	11
39	Crystallization behavior and mechanical strength of poly(butylene succinate-co-ethylene glycol)-based nanocomposites using functionalized multiwalled carbon nanotubes. <i>Polymer Engineering and Science</i> , 2012 , 52, 2506-2517	2.3	11
38	Uncovering the Mechanism of Poly(ionic-liquid)s Multiple Inhibition of Ion Migration for Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 2103652	21.8	11
37	Tremendously enhanced photocurrent enabled by triplet-triplet annihilation up-conversion for high-performance perovskite solar cells. <i>Energy and Environmental Science</i> , 2021 , 14, 3532-3541	35.4	10
36	Preparation and biodegradation of copolyesters based on poly(ethylene terephthalate) and poly(ethylene glycol)/oligo(lactic acid) by transesterification. <i>Polymer Engineering and Science</i> , 2010 , 50, 76-83	2.3	9
35	Flexible perovskite solar cells: device design and perspective. <i>Flexible and Printed Electronics</i> , 2020 , 5, 013002	3.1	9
34	A non-wetting and conductive polyethylene dioxothiophene hole transport layer for scalable and flexible perovskite solar cells. <i>Science China Chemistry</i> , 2021 , 64, 834-843	7.9	9
33	Reducing Photovoltaic Property Loss of Organic Solar Cells in Blade-Coating by Optimizing Micro-Nanomorphology via Nonhalogenated Solvent. <i>Advanced Energy Materials</i> , 2016 , 6, 2200165	21.8	9
32	Melting bulk reaction between poly(butylene terephthalate) and poly(ethylene glycol)/DL-oligo(lactic acid). <i>Journal of Applied Polymer Science</i> , 2008 , 108, 2171-2179	2.9	8
31	Versatile Molybdenum Isopropoxide for Efficient Mesoporous Perovskite Solar Cells: Simultaneously Optimized Morphology and Interfacial Engineering. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15089-15095	3.8	8
30	Optimization of perovskite by 3D twisted diketopyrrolopyrrole for efficient perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1179-1184	7.8	7
29	Perovskite Solar Cells: High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide (Adv. Energy Mater. 18/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970064	21.8	7
28	Characterization of the mechanical properties, crystallization, and enzymatic degradation behavior of poly(butylene succinate-co-ethyleneoxide-co-DL-lactide) copolyesters. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 2272-2282	2.9	7
27	Homogeneous Cu ₂ ZnSnSe ₄ nanocrystals/graphene oxide nanocomposites as hole transport layer for polymer solar cells. <i>Chemical Physics Letters</i> , 2015 , 622, 1-8	2.5	7
26	Directional Crystallization by Floating Self-Assembly for Efficient and Stable Tin-based Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2021 , 33, 4362-4372	9.6	7
25	Formation of cathode buffer layer by surface segregation of fluoroalkyl-modified ZnO for polymer solar cells. <i>RSC Advances</i> , 2015 , 5, 23213-23223	3.7	6
24	Reducing Energy Loss and Morphology Optimization Manipulated by Molecular Geometry Engineering for Hetero-junction Organic Solar Cells. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1553-1559	4.9	6

23	Assembly of quantum dots in polymer solar cells driven by orientational switching of mesogens under electric field. <i>Solar Energy</i> , 2016 , 129, 184-191	6.8	6
22	Transesterification-induced cocrystallization of poly(trimethylene terephthalate) and poly(butylene succinate) blends. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 1297-1306	2.9	6
21	A Regularity-Based Fullerene Interfacial Layer for Efficient and Stable Perovskite Solar Cells via Blade-Coating. <i>Advanced Functional Materials</i> , 2105917	15.6	5
20	Ultra-flexible and waterproof perovskite photovoltaics for washable power source applications. <i>Chemical Communications</i> , 2021 , 57, 6320-6323	5.8	5
19	Electrodeposition of poly(3,4-ethylenedioxythiophene) coated manganese dioxide nanospheres for flexible asymmetric planar supercapacitor with superior energy density. <i>Journal of Power Sources</i> , 2021 , 506, 230176	8.9	5
18	Regulation of Crystallinity and Vertical Phase Separation Enables High-Efficiency Thick Organic Solar Cells. <i>Advanced Functional Materials</i> , 2202103	15.6	5
17	CdSe tetrapods-modified ZnO cathode buffer layers for enhancement of power conversion efficiency in inverted polymer solar cells. <i>Polymer Bulletin</i> , 2016 , 73, 1761-1773	2.4	4
16	Crystallization and degradation behaviors of poly(butylene succinate)/poly(L-lysine) composites. <i>Thermochimica Acta</i> , 2014 , 575, 279-284	2.9	4
15	Green quasi-solid-state planar asymmetric supercapacitors with high working voltage and extraordinary volumetric energy density. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14363-14371	13	4
14	Pseudo-Planar Heterojunction Organic Photovoltaics with Optimized Light Utilization for Printable Solar Windows.. <i>Advanced Materials</i> , 2022 , e2201604	24	4
13	Hole Transportation: Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability (Adv. Funct. Mater. 18/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970117	15.6	3
12	Flexible Solar Cells: A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells (Adv. Mater. 41/2019). <i>Advanced Materials</i> , 2019 , 31, 1970294	24	3
11	Highly porous Mn ₃ O ₄ nanosheets with in situ coated carbon enabling fully screen-printed planar supercapacitors with remarkable volumetric performance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4273-4280 ³	13	3
10	Defect Passivation Effect of Chemical Groups on Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	3
9	Melt reaction and structural analysis based on poly(butylene terephthalate) and oligo(lactic acid) with addition of butanediol. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 99, 269-275	4.1	2
8	Hierarchically nitrogen-doped mesoporous carbon nanospheres with dual ion adsorption capability for superior rate and ultra-stable zinc ion hybrid supercapacitors. <i>Science China Materials</i> , 1	7.1	2
7	Solar Cells: Nucleation and Crystallization Control via Polyurethane to Enhance the Bendability of Perovskite Solar Cells with Excellent Device Performance (Adv. Funct. Mater. 41/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
6	Controllable length and density ZnO@CdS core/shell as electron transport layer for optimization of organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3557-3564	2.1	1

- 5 Reply to the Comment on Tremendously enhanced photocurrent enabled by triplet-triplet annihilation up-conversion for high-performance perovskite solar cells by L. Nienhaus and T. W. Schmidt, *Energy Environ. Sci.*, 2021, 14, 10.1039/D1EE01446C. *Energy and Environmental Science*, 35.4 1
- 4 Innenrücktitelbild: Stretchable Perovskite Solar Cells with Recoverable Performance (*Angew. Chem.* 38/2020). *Angewandte Chemie*, 2020, 132, 16947 3.6 1
- 3 Dual Triplet Sensitization Strategy for Efficient and Stable Triplet-Triplet Annihilation Up-Conversion Perovskite Solar Cells. *CCS Chemistry*, 1-26 7.2 1
- 2 Highly efficient and stable ZnO-based MA-free perovskite solar cells via overcoming interfacial mismatch and deprotonation reaction. *Chemical Engineering Journal*, 2022, 431, 134235 14.7 0
- 1 Stretchable Perovskite Solar Cells with Recoverable Performance. *Angewandte Chemie*, 2020, 132, 16745.6 5.6 1