Licheng Tan

List of Publications by Year in Descending Order

94 papers	2,267 citations	27 h-index	43 g-index
98 ext. papers	2,934 ext. citations	10.6 avg, IF	5.37 L-index

#	Paper	IF	Citations
94	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
93	Pseudo-Planar Heterojunction Organic Photovoltaics with Optimized Light Utilization for Printable Solar Windows.. *Advanced Materials*, **2022**, e2201604	24	4
92	Elimination of Interfacial Lattice Mismatch and Detrimental Reaction by Self-Assembled Layer Dual-Passivation for Efficient and Stable Inverted Perovskite Solar Cells. *Advanced Energy Materials*, **2022**, 12, 2103674	21.8	15
91	A non-wetting and conductive polyethylene dioxothiophene hole transport layer for scalable and flexible perovskite solar cells. *Science China Chemistry*, **2021**, 64, 834-843	7.9	9
90	Ionic Liquid-Induced Ostwald Ripening Effect for Efficient and Stable Tin-Based Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 15420-15428	9.5	13
89	High-Efficiency (16.93%) Pseudo-Planar Heterojunction Organic Solar Cells Enabled by Binary Additives Strategy. *Advanced Functional Materials*, **2021**, 31, 2102291	15.6	31
88	Directional Crystallization by Floating Self-Assembly for Efficient and Stable Tin-based Perovskite Solar Cells. *Chemistry of Materials*, **2021**, 33, 4362-4372	9.6	7
87	An in situ bifacial passivation strategy for flexible perovskite solar module with mechanical robustness by roll-to-roll fabrication. *Journal of Materials Chemistry A*, **2021**, 9, 5759-5768	13	21
86	Ultra-flexible and waterproof perovskite photovoltaics for washable power source applications. *Chemical Communications*, **2021**, 57, 6320-6323	5.8	5
85	Tremendously enhanced photocurrent enabled by triplet□triplet annihilation up-conversion for high-performance perovskite solar cells. *Energy and Environmental Science*, **2021**, 14, 3532-3541	35.4	10
84	Highly porous Mn3O4 nanosheets with in situ coated carbon enabling fully screen-printed planar supercapacitors with remarkable volumetric performance. *Journal of Materials Chemistry A*, **2021**, 9, 4273-4280	13	3
83	Green quasi-solid-state planar asymmetric supercapacitors with high working voltage and extraordinary volumetric energy density. *Journal of Materials Chemistry A*, **2021**, 9, 14363-14371	13	4
82	Defect Passivation Effect of Chemical Groups on Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**,	9.5	3
81	Electrodeposition of poly(3,4-ethylenedioxythiophene) coated manganese dioxide nanospheres for flexible asymmetric planar supercapacitor with superior energy density. *Journal of Power Sources*, **2021**, 506, 230176	8.9	5
80	Obstructing interfacial reaction between NiOx and perovskite to enable efficient and stable inverted perovskite solar cells. *Chemical Engineering Journal*, **2021**, 426, 131357	14.7	23
79	Minimization of ion transport resistance: diblock copolymer micelle derived nitrogen-doped hierarchically porous carbon spheres for superior rate and power Zn-ion capacitors. *Journal of Materials Chemistry A*, **2021**, 9, 8435-8443	13	14
78	Stretchable Perovskite Solar Cells with Recoverable Performance. *Angewandte Chemie - International Edition*, **2020**, 59, 16602-16608	16.4	57

77	Stretchable Perovskite Solar Cells with Recoverable Performance. *Angewandte Chemie*, **2020**, 132, 16745	3.6	
76	Reducing Energy Loss and Morphology Optimization Manipulated by Molecular Geometry Engineering for Hetero-junction Organic Solar Cells. *Chinese Journal of Chemistry*, **2020**, 38, 1553-1559	4.9	6
75	Stabilized and Operational PbI2 Precursor Ink for Large-Scale Perovskite Solar Cells via Two-Step Blade-Coating. *Journal of Physical Chemistry C*, **2020**, 124, 8129-8139	3.8	14
74	Regulated Crystallization of Efficient and Stable Tin-Based Perovskite Solar Cells via a Self-Sealing Polymer. *ACS Applied Materials & Interfaces*, **2020**, 12, 14049-14056	9.5	52
73	Preparation of efficient inverted tin-based perovskite solar cells via the bidentate coordination effect of 8-hydroxyquinoline. *Chemical Communications*, **2020**, 56, 4007-4010	5.8	35
72	Flexible perovskite solar cells: device design and perspective. *Flexible and Printed Electronics*, **2020**, 5, 013002	3.1	9
71	A General Electrodeposition Strategy for Fabricating Ultrathin Nickel Cobalt Phosphate Nanosheets with Ultrahigh Capacity and Rate Performance. *ACS Nano*, **2020**, 14, 14201-14211	16.7	50
70	Innenr□cktitelbild: Stretchable Perovskite Solar Cells with Recoverable Performance (Angew. Chem. 38/2020). *Angewandte Chemie*, **2020**, 132, 16947	3.6	1
69	Printable and Large-Area Organic Solar Cells Enabled by a Ternary Pseudo-Planar Heterojunction Strategy. *Advanced Functional Materials*, **2020**, 30, 2003223	15.6	36
68	Understanding the Mechanism between Antisolvent Dripping and Additive Doping Strategies on the Passivation Effects in Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 56151-56160	9.5	15
67	Controlling Crystal Growth via an Autonomously Longitudinal Scaffold for Planar Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e2000617	24	55
66	Electroless deposition of silver grids flexible transparent electrode integrated by ultra-violet nanoimprint lithography. *Organic Electronics*, **2019**, 75, 105408	3.5	12
65	Perovskite Solar Cells: High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide (Adv. Energy Mater. 18/2019). *Advanced Energy Materials*, **2019**, 9, 1970064	21.8	7
64	Hole Transportation: Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability (Adv. Funct. Mater. 18/2019). *Advanced Functional Materials*, **2019**, 29, 1970117	15.6	3
63	High-Performance Perovskite Solar Cells with Excellent Humidity and Thermo-Stability via Fluorinated Perylenediimide. *Advanced Energy Materials*, **2019**, 9, 1900198	21.8	133
62	A bendable nickel oxide interfacial layer via polydopamine crosslinking for flexible perovskite solar cells. *Chemical Communications*, **2019**, 55, 3666-3669	5.8	35
61	CoO Supraparticle-Based Bubble Nanofiber and Bubble Nanosheet with Remarkable Electrochemical Performance. *Advanced Science*, **2019**, 6, 1900107	13.6	43
60	Highly Efficient Flexible Polymer Solar Cells with Robust Mechanical Stability. *Advanced Science*, **2019**, 6, 1801180	13.6	35

59	Enhanced Hole Transportation for Inverted Tin-Based Perovskite Solar Cells with High Performance and Stability. *Advanced Functional Materials*, **2019**, 29, 1808059	15.6	93
58	A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells. *Advanced Materials*, **2019**, 31, e1903649	24	81
57	Construction of facile ion and electron diffusion by hierarchical core-branch Zn substituted $NiCo_2S_4$ nanocomposite for high-performance asymmetric supercapacitors. *Carbon*, **2019**, 153, 531-538	10.4	41
56	Silver Mesh Electrodes via Electroless Deposition-Coupled Inkjet-Printing Mask Technology for Flexible Polymer Solar Cells. *Langmuir*, **2019**, 35, 9713-9720	4	12
55	Hierarchical Nanosheets/Walls Structured Carbon-Coated Porous Vanadium Nitride Anodes Enable Wide-Voltage-Window Aqueous Asymmetric Supercapacitors with High Energy Density. *Advanced Science*, **2019**, 6, 1900550	13.6	40
54	Unraveling the Morphology in Solution-Processed Pseudo-Bilayer Planar Heterojunction Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 26213-26221	9.5	25
53	Water-Resistant and Flexible Perovskite Solar Cells via a Glued Interfacial Layer. *Advanced Functional Materials*, **2019**, 29, 1902629	15.6	64
52	Flexible Solar Cells: A General Approach for Lab-to-Manufacturing Translation on Flexible Organic Solar Cells (Adv. Mater. 41/2019). *Advanced Materials*, **2019**, 31, 1970294	24	3
51	Construction of a hierarchical carbon coated Fe3O4 nanorod anode for 2.6 V aqueous asymmetric supercapacitors with ultrahigh energy density. *Journal of Materials Chemistry A*, **2019**, 7, 27313-27322	13	20
50	Roll-To-Roll Printing of Meter-Scale Composite Transparent Electrodes with Optimized Mechanical and Optical Properties for Photoelectronics. *ACS Applied Materials & Interfaces*, **2018**, 10, 8917-8925	9.5	18
49	When Al-Doped Cobalt Sulfide Nanosheets Meet Nickel Nanotube Arrays: A Highly Efficient and Stable Cathode for Asymmetric Supercapacitors. *ACS Nano*, **2018**, 12, 3030-3041	16.7	148
48	Grain Boundary Modification via F4TCNQ To Reduce Defects of Perovskite Solar Cells with Excellent Device Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 1909-1916	9.5	91
47	Highly stable Al-doped ZnO by ligand-free synthesis as general thickness-insensitive interlayers for organic solar cells. *Science China Chemistry*, **2018**, 61, 127-134	7.9	22
46	Large-scale ultra-adhesive and mechanically flexible silver grids transparent electrodes by solution process. *Organic Electronics*, **2018**, 61, 296-303	3.5	11
45	A facile approach towards chemical modification of Ag nanowires by PEDOT as a transparent electrode for organic solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 312-319	7.1	15
44	Fluorinated Reduced Graphene Oxide as an Efficient Hole-Transport Layer for Efficient and Stable Polymer Solar Cells. *ACS Omega*, **2017**, 2, 2010-2016	3.9	33
43	Crystallization and conformation engineering of solution-processed polymer transparent electrodes with high conductivity. *Journal of Materials Chemistry C*, **2017**, 5, 382-389	7.1	27
42	Optimization of perovskite by 3D twisted diketopyrrolopyrrole for efficient perovskite solar cells. *Materials Chemistry Frontiers*, **2017**, 1, 1179-1184	7.8	7

41	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). *Advanced Functional Materials*, **2017**, 27,	15.6	1
40	Roll-to-Roll Fabrication of Flexible Orientated Graphene Transparent Electrodes by Shear Force and One-Step Reducing Post-Treatment. *Advanced Materials Technologies*, **2017**, 2, 1700138	6.8	18
39	Nucleation and Crystallization Control via Polyurethane to Enhance the Bendability of Perovskite Solar Cells with Excellent Device Performance. *Advanced Functional Materials*, **2017**, 27, 1703061	15.6	116
38	Large-Scale Stretchable Semiembedded Copper Nanowire Transparent Conductive Films by an Electrospinning Template. *ACS Applied Materials & Interfaces*, **2017**, 9, 26468-26475	9.5	55
37	Assembly of quantum dots in polymer solar cells driven by orientational switching of mesogens under electric field. *Solar Energy*, **2016**, 129, 184-191	6.8	6
36	Enhancing the grain size of organic halide perovskites by sulfonate-carbon nanotube incorporation in high performance perovskite solar cells. *Chemical Communications*, **2016**, 52, 5674-7	5.8	62
35	Controllable length and density ZnO@CdS core/shell as electron transport layer for optimization of organic solar cells. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 3557-3564	2.1	1
34	CdSe tetrapods-modified ZnO cathode buffer layers for enhancement of power conversion efficiency in inverted polymer solar cells. *Polymer Bulletin*, **2016**, 73, 1761-1773	2.4	4
33	Triple Dipole Effect from Self-Assembled Small-Molecules for High Performance Organic Photovoltaics. *Advanced Materials*, **2016**, 28, 4852-60	24	46
32	Versatile Molybdenum Isopropoxide for Efficient Mesoporous Perovskite Solar Cells: Simultaneously Optimized Morphology and Interfacial Engineering. *Journal of Physical Chemistry C*, **2016**, 120, 15089-15095	3.8	8
31	3-Dimensional ZnO/CdS nanocomposite with high mobility as an efficient electron transport layer for inverted polymer solar cells. *Physical Chemistry Chemical Physics*, **2016**, 18, 12175-82	3.6	17
30	In situ polymerization of ethylenedioxythiophene from sulfonated carbon nanotube templates: toward high efficiency ITO-free solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 6645-6652	13	28
29	High-Performance Polymer Solar Cells Realized by Regulating the Surface Properties of PEDOT:PSS Interlayer from Ionic Liquids. *ACS Applied Materials & Interfaces*, **2016**, 8, 27018-27025	9.5	14
28	Formation of cathode buffer layer by surface segregation of fluoroalkyl-modified ZnO for polymer solar cells. *RSC Advances*, **2015**, 5, 23213-23223	3.7	6
27	Liquid-crystalline ionic liquids modified conductive polymers as a transparent electrode for indium-free polymer solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 22316-22324	13	18
26	Tunable size and sensitization of ZnO nanoarrays as electron transport layers for enhancing photocurrent of photovoltaic devices. *Journal of Materials Chemistry C*, **2015**, 3, 828-835	7.1	12
25	Versatile MoS2 Nanosheets in ITO-Free and Semi-transparent Polymer Power-generating Glass. *Scientific Reports*, **2015**, 5, 12161	4.9	16
24	A Facile approach to NiCoO2 intimately standing on nitrogen doped graphene sheets by one-step hydrothermal synthesis for supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 7121-7131	13	83

23	Homogeneous Cu 2 ZnSnSe 4 nanocrystals/graphene oxide nanocomposites as hole transport layer for polymer solar cells. *Chemical Physics Letters*, **2015**, 622, 1-8	2.5	7
22	Self-assembled buffer layer from conjugated diblock copolymers with ethyleneoxide side chains for high efficiency polymer solar cells. *Journal of Materials Chemistry C*, **2014**, 2, 8054-8064	7.1	15
21	In Situ Fabricating One-Dimensional Donor–Acceptor Core–Shell Hybrid Nanobeams Network Driven by Self-Assembly of Diblock Copolythiophenes. *Macromolecules*, **2014**, 47, 1757-1767	5.5	12
20	A novel thermal and pH responsive drug delivery system based on ZnO@PNIPAM hybrid nanoparticles. *Materials Science and Engineering C*, **2014**, 45, 524-9	8.3	38
19	Crystallization and degradation behaviors of poly(butylene succinate)/poly(Z-l-lysine) composites. *Thermochimica Acta*, **2014**, 575, 279-284	2.9	4
18	Hybrid bulk heterojunction solar cells based on the cooperative interaction of liquid crystals within quantum dots and diblock copolymers. *ACS Applied Materials & Interfaces*, **2013**, 5, 11692-702	9.5	17
17	Characterization of the mechanical properties, crystallization, and enzymatic degradation behavior of poly(butylene succinate-co-ethyleneoxide-co-DL-lactide) copolyesters. *Journal of Applied Polymer Science*, **2012**, 123, 2272-2282	2.9	7
16	Crystallization behavior and mechanical strength of poly(butylene succinate-co-ethylene glycol)-based nanocomposites using functionalized multiwalled carbon nanotubes. *Polymer Engineering and Science*, **2012**, 52, 2506-2517	2.3	11
15	Crystallization, morphology, and mechanical properties of poly(butylene succinate)/poly(ethylene oxide)-polyhedral oligomeric silsesquioxane nanocomposites. *Polymer Engineering and Science*, **2012**, 52, 2063-2070	2.3	13
14	Transesterification-induced cocrystallization of poly(trimethylene terephthalate) and poly(butylene succinate) blends. *Journal of Applied Polymer Science*, **2011**, 120, 1297-1306	2.9	6
13	Synthesis of novel biodegradable poly(butylene succinate) copolyesters composing of isosorbide and poly(ethylene glycol). *Journal of Applied Polymer Science*, **2011**, 121, 2291-2300	2.9	13
12	Melt reaction and structural analysis based on poly(butylene terephthalate) and oligo(lactic acid) with addition of butanediol. *Journal of Thermal Analysis and Calorimetry*, **2010**, 99, 269-275	4.1	2
11	Preparation and biodegradation of copolyesters based on poly(ethylene terephthalate) and poly(ethylene glycol)/oligo(lactic acid) by transesterification. *Polymer Engineering and Science*, **2010** , 50, 76-83	2.3	9
10	Melting bulk reaction between poly(butylene terephthalate) and poly(ethylene glycol)/DL-oligo(lactic acid). *Journal of Applied Polymer Science*, **2008**, 108, 2171-2179	2.9	8
9	Acetic Acid-Assisted Synergistic Modulation of Crystallization Kinetics and Inhibition of Sn2+ Oxidation in Tin-Based Perovskite Solar Cells. *Advanced Functional Materials*,2109631	15.6	18
8	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
7	A Biomimetic Self-Shield Interface for Flexible Perovskite Solar Cells with Negligible Lead Leakage. *Advanced Functional Materials*,2106460	15.6	16
6	A Regularity-Based Fullerene Interfacial Layer for Efficient and Stable Perovskite Solar Cells via Blade-Coating. *Advanced Functional Materials*,2105917	15.6	5

5	Uncovering the Mechanism of Poly(ionic-liquid)s Multiple Inhibition of Ion Migration for Efficient and Stable Perovskite Solar Cells. *Advanced Energy Materials*,2103652	21.8	11
4	Reducing Photovoltaic Property Loss of Organic Solar Cells in Blade-Coating by Optimizing Micro-Nanomorphology via Nonhalogenated Solvent. *Advanced Energy Materials*,2200165	21.8	9
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	Hierarchically nitrogen-doped mesoporous carbon nanospheres with dual ion adsorption capability for superior rate and ultra-stable zinc ion hybrid supercapacitors. *Science China Materials*,1	7.1	2
1	Regulation of Crystallinity and Vertical Phase Separation Enables High-Efficiency Thick Organic Solar Cells. *Advanced Functional Materials*,2202103	15.6	5