Ting Hu

List of Publications by Citations

59 papers	1,728 citations	20 h-index	40 g-index
64 ext. papers	2,412 ext. citations	11.3 avg, IF	5 L-index

#	Paper	IF	Citations
59	Recent Progress on the Long-Term Stability of Perovskite Solar Cells. *Advanced Science*, **2018**, 5, 1700387	13.6	248
58	Nanofibrous and Graphene-Templated Conjugated Microporous Polymer Materials for Flexible Chemosensors and Supercapacitors. *Chemistry of Materials*, **2015**, 27, 7403-7411	9.6	138
57	Photonic Nanostructures Patterned by Thermal Nanoimprint Directly into Organo-Metal Halide Perovskites. *Advanced Materials*, **2017**, 29, 1605003	24	124
56	A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. *Advanced Energy Materials*, **2014**, 4, 1400206	21.8	106
55	Bio-inspired vertebral design for scalable and flexible perovskite solar cells. *Nature Communications*, **2020**, 11, 3016	17.4	86
54	Efficiency and air-stability improvement of flexible inverted polymer solar cells using ZnO/poly(ethylene glycol) hybrids as cathode buffer layers. *ACS Applied Materials & Interfaces*, **2013**, 5, 5763-70	9.5	76
53	Engineering the Morphology of Carbon Materials: 2D Porous Carbon Nanosheets for High-Performance Supercapacitors. *ChemElectroChem*, **2016**, 3, 822-828	4.3	75
52	Thermal Conductivity of Methylammonium Lead Halide Perovskite Single Crystals and Thin Films: A Comparative Study. *Journal of Physical Chemistry C*, **2017**, 121, 28306-28311	3.8	65
51	Indium-Free Perovskite Solar Cells Enabled by Impermeable Tin-Oxide Electron Extraction Layers. *Advanced Materials*, **2017**, 29, 1606656	24	61
50	Stretchable Perovskite Solar Cells with Recoverable Performance. *Angewandte Chemie - International Edition*, **2020**, 59, 16602-16608	16.4	57
49	Nitrogen-doped porous carbon/graphene nanosheets derived from two-dimensional conjugated microporous polymer sandwiches with promising capacitive performance. *Materials Chemistry Frontiers*, **2017**, 1, 278-285	7.8	49
48	Distributed Feedback Lasers Based on MAPbBr3. *Advanced Materials Technologies*, **2018**, 3, 1700253	6.8	48
47	Cerium oxide as an efficient electron extraction layer for p-i-n structured perovskite solar cells. *Chemical Communications*, **2018**, 54, 471-474	5.8	44
46	Amphiphilic Fullerenes Employed to Improve the Quality of Perovskite Films and the Stability of Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 24782-24788	9.5	43
45	A generalized one-step in situ formation of metal sulfide/reduced graphene oxide nanosheets toward high-performance supercapacitors. *Science China Materials*, **2020**, 63, 1898-1909	7.1	30
44	2D Heterostructures Derived from MoS2-Templated, Cobalt-Containing Conjugated Microporous Polymer Sandwiches for the Oxygen Reduction Reaction and Electrochemical Energy Storage. *ChemElectroChem*, **2017**, 4, 709-715	4.3	26
43	Recent Developments of Microenvironment Engineering of Single-Atom Catalysts for Oxygen Reduction toward Desired Activity and Selectivity. *Advanced Functional Materials*, **2021**, 31, 2103857	15.6	25

42	Poly(3-butylthiophene) nanowires inducing crystallization of poly(3-hexylthiophene) for enhanced photovoltaic performance. *Journal of Materials Chemistry C*, **2015**, 3, 809-819	7.1	23
41	Amphiphilic fullerene/ZnO hybrids as cathode buffer layers to improve charge selectivity of inverted polymer solar cells. *Nanoscale*, **2015**, 7, 9194-203	7.7	21
40	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
39	Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. *Angewandte Chemie - International Edition*, **2021**, 60, 14693-14700	16.4	20
38	Poly(N-vinylpyrrolidone)-decorated reduced graphene oxide with ZnO grown in situ as a cathode buffer layer for polymer solar cells. *Chemistry - A European Journal*, **2014**, 20, 17178-84	4.8	18
37	Covalently Sandwiching MXene by Conjugated Microporous Polymers with Excellent Stability for Supercapacitors. *Small Methods*, **2020**, 4, 2000434	12.8	17
36	Amphiphilic fullerenes modified 1D ZnO arrayed nanorods/2D graphene hybrids as cathode buffer layers for inverted polymer solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 10890-10899	13	16
35	A Biomimetic Self-Shield Interface for Flexible Perovskite Solar Cells with Negligible Lead Leakage. *Advanced Functional Materials*,2106460	15.6	16
34	Coupling of EDLC and the reversible redox reaction: oxygen functionalized porous carbon nanosheets for zinc-ion hybrid supercapacitors. *Journal of Materials Chemistry A*, **2021**, 9, 15404-15414	13	16
33	High-performance inverted planar perovskite solar cells based on solution-processed rubidium-doped nickel oxide hole-transporting layer. *Organic Electronics*, **2019**, 69, 34-41	3.5	15
32	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
31	An Effective Method for Recovering Nonradiative Recombination Loss in Scalable Organic Solar Cells. *Advanced Functional Materials*, **2020**, 30, 2000417	15.6	14
30	An efficient and stable tin-based perovskite solar cell passivated by aminoguanidine hydrochloride. *Journal of Materials Chemistry C*, **2020**, 8, 7786-7792	7.1	14
29	Optimizing Microenvironment of Asymmetric N,S-Coordinated Single-Atom Fe via Axial Fifth Coordination toward Efficient Oxygen Electroreduction. *Small*, **2021**, e2105387	11	14
28	Manipulating the Interlayer Spacing of 3D MXenes with Improved Stability and Zinc-Ion Storage Capability. *Advanced Functional Materials*,2109524	15.6	14
27	Pyrolysis-free polymer-based oxygen electrocatalysts. *Energy and Environmental Science*, **2021**, 14, 2789-2808	33.4	14
26	A Highly Tolerant Printing for Scalable and Flexible Perovskite Solar Cells. *Advanced Functional Materials*,2107726	15.6	13
25	A homogeneous ethanedithiol doped ZnO electron transporting layer for polymer solar cells. *Journal of Materials Chemistry C*, **2016**, 4, 8738-8744	7.1	12

24	Atomic Layer Deposition of Metal Oxides in Perovskite Solar Cells: Present and Future. *Small Methods*, **2020**, 4, 2000588	12.8	10
23	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
22	Current Development toward Commercialization of Metal-Halide Perovskite Photovoltaics. *Advanced Optical Materials*, **2021**, 9, 2100390	8.1	9
21	Molecular crowding agents engineered to make bioinspired electrolytes for high-voltage aqueous supercapacitors. *EScience*, **2021**, 1, 83-83		9
20	Incorporation of two electron acceptors to improve the electron mobility and stability of perovskite solar cells. *Journal of Materials Chemistry C*, **2019**, 7, 8344-8349	7.1	8
19	Spontaneous Formation of Upper Gradient 2D Structure for Efficient and Stable Quasi-2D Perovskites. *Advanced Materials*, **2021**, 33, e2101823	24	7
18	Fast assembly of MXene hydrogels by interfacial electrostatic interaction for supercapacitors. *Chemical Communications*, **2021**, 57, 10731-10734	5.8	7
17	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
16	Molecular Control of Carbon-Based Oxygen Reduction Electrocatalysts through Metal Macrocyclic Complexes Functionalization. *Advanced Energy Materials*, **2021**, 11, 2100866	21.8	6
15	Self-assembly monolayers manipulate the power conversion processes in organic photovoltaics. *Journal of Power Sources*, **2019**, 409, 66-75	8.9	6
14	Advancements in organic small molecule hole-transporting materials for perovskite solar cells: past and future. *Journal of Materials Chemistry A*, **2022**, 10, 5044-5081	13	6
13	Concerted regulation on vertical orientation and film quality of two-dimensional ruddlesden-popper perovskite layer for efficient solar cells. *Science China Chemistry*, **2020**, 63, 1675-1683	7.9	5
12	Toward efficient perovskite solar cells by planar imprint for improved perovskite film quality and granted bifunctional barrier. *Journal of Materials Chemistry A*, **2021**, 9, 16178-16186	13	5
11	Simultaneously Integrate Iron Single Atom and Nanocluster Triggered Tandem Effect for Boosting Oxygen Electroreduction.. *Small*, **2022**, e2107225	11	5
10	Photonic Nanostructures: Photonic Nanostructures Patterned by Thermal Nanoimprint Directly into Organo-Metal Halide Perovskites (Adv. Mater. 12/2017). *Advanced Materials*, **2017**, 29,	24	4
9	Synthesis and properties of novel ferroelectric liquid crystalline polyacetylenes containing terphenyl mesogens with chiral groups. *Journal of Thermal Analysis and Calorimetry*, **2011**, 105, 995-1006	4.1	4
8	Enabling 2.4-V aqueous supercapacitors through the rational design of an integrated electrode of hollow vanadium trioxide/carbon nanospheres. *Science China Materials*, **2021**, 64, 2163-2172	7.1	4
7	Flexible and Wearable Solar Cells and Supercapacitors **2020**, 87-129		3

6	Deciphering the Precursor-Performance Relationship of Single-Atom Iron Oxygen Electroreduction Catalysts via Isomer Engineering.. *Small*, **2022**, e2106122	11	3
5	Iron-based nanocomposites implanting in N, P Co-doped carbon nanosheets as efficient oxygen reduction electrocatalysts for Zn-Air batteries. *Composites Communications*, **2021**, 100994	6.7	1
4	Colloidal chemistry in perovskite precursor solution. *Science Bulletin*, **2021**, 67, 561-561	10.6	1
3	Innenr□ktitelbild: Stretchable Perovskite Solar Cells with Recoverable Performance (Angew. Chem. 38/2020). *Angewandte Chemie*, **2020**, 132, 16947	3.6	1
2	Wearable Tin-Based Perovskite Solar Cells Achieved by a Crystallographic Size Effect. *Angewandte Chemie*, **2021**, 133, 14814-14821	3.6	1
1	Stretchable Perovskite Solar Cells with Recoverable Performance. *Angewandte Chemie*, **2020**, 132, 16745	3.6	