

Chih-Yu Chang

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65
papers

2,907
citations

32
h-index

53
g-index

68
ext. papers

3,127
ext. citations

9.7
avg, IF

5.19
L-index

#	Paper	IF	Citations
65	Suppressed charge recombination in inverted organic photovoltaics via enhanced charge extraction by using a conductive fullerene electron transport layer. <i>Advanced Materials</i> , 2014 , 26, 6262-7	24	198
64	High-Performance, Air-Stable, Low-Temperature Processed Semitransparent Perovskite Solar Cells Enabled by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2015 , 27, 5122-5130	9.6	178
63	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3241	35.4	160
62	Interfacial engineering of ultrathin metal film transparent electrode for flexible organic photovoltaic cells. <i>Advanced Materials</i> , 2014 , 26, 3618-23	24	159
61	Enhanced performance and stability of a polymer solar cell by incorporation of vertically aligned, cross-linked fullerene nanorods. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9386-90	16.4	156
60	Combination of molecular, morphological, and interfacial engineering to achieve highly efficient and stable plastic solar cells. <i>Advanced Materials</i> , 2012 , 24, 549-53	24	151
59	Carbazole-Based Ladder-Type Heptacyclic Arene with Aliphatic Side Chains Leading to Enhanced Efficiency of Organic Photovoltaics. <i>Chemistry of Materials</i> , 2011 , 23, 2361-2369	9.6	107
58	A Versatile Fluoro-Containing Low-Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 5084-5090	15.6	98
57	Design of a versatile interconnecting layer for highly efficient series-connected polymer tandem solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 1712-1718	35.4	97
56	A solution-processed n-doped fullerene cathode interfacial layer for efficient and stable large-area perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 640-648	13	95
55	Synthesis of a New Ladder-Type Benzodi(cyclopentadithiophene) Arene with Forced Planarization Leading to an Enhanced Efficiency of Organic Photovoltaics. <i>Chemistry of Materials</i> , 2012 , 24, 3964-3971	9.6	94
54	Dithienocarbazole-Based Ladder-Type Heptacyclic Arenes with Silicon, Carbon, and Nitrogen Bridges: Synthesis, Molecular Properties, Field-Effect Transistors, and Photovoltaic Applications. <i>Advanced Functional Materials</i> , 2012 , 22, 1711-1722	15.6	90
53	Di(4-methylphenyl)methano-C60 Bis-Adduct for Efficient and Stable Organic Photovoltaics with Enhanced Open-Circuit Voltage. <i>Chemistry of Materials</i> , 2011 , 23, 4056-4062	9.6	89
52	Enhanced Performance and Stability of Semitransparent Perovskite Solar Cells Using Solution-Processed Thiol-Functionalized Cationic Surfactant as Cathode Buffer Layer. <i>Chemistry of Materials</i> , 2015 , 27, 7119-7127	9.6	67
51	Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. <i>Advanced Energy Materials</i> , 2014 , 4, 1301645	21.8	65
50	Thin-film encapsulation of polymer-based bulk-heterojunction photovoltaic cells by atomic layer deposition. <i>Organic Electronics</i> , 2009 , 10, 1300-1306	3.5	64
49	Simple mono-halogenated perylene diimides as non-fullerene electron transporting materials in inverted perovskite solar cells with ZnO nanoparticle cathode buffer layers. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12811-12821	13	58

48	Ladder-Type Nonacyclic Structure Consisting of Alternate Thiophene and Benzene Units for Efficient Conventional and Inverted Organic Photovoltaics. <i>Chemistry of Materials</i> , 2011 , 23, 5068-5075	9.6	56
47	Donor-Acceptor Random Copolymers Based on a Ladder-Type Nonacyclic Unit: Synthesis, Characterization, and Photovoltaic Applications. <i>Macromolecules</i> , 2011 , 44, 8415-8424	5.5	55
46	Achieving high efficiency and improved stability in large-area ITO-free perovskite solar cells with thiol-functionalized self-assembled monolayers. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7903-7913	13	54
45	Increased risk of major depression in the three years following a femoral neck fracture--a national population-based follow-up study. <i>PLoS ONE</i> , 2014 , 9, e89867	3.7	47
44	Diindeno[2,3-b]thiophene arene for efficient organic photovoltaics with an extra high open-circuit voltage of 1.14 eV. <i>Chemical Communications</i> , 2012 , 48, 3203-5	5.8	47
43	Room-Temperature Solution-Processed n-Doped Zirconium Oxide Cathode Buffer Layer for Efficient and Stable Organic and Hybrid Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 242-251	9.6	45
42	Indacenodithieno[3,2-b]thiophene-based broad bandgap polymers for high efficiency polymer solar cells. <i>Polymer Chemistry</i> , 2013 , 4, 5220	4.9	42
41	Enhanced OLED performance upon photolithographic patterning by using an atomic-layer-deposited buffer layer. <i>Organic Electronics</i> , 2008 , 9, 667-672	3.5	41
40	Tacky Elastomers to Enable Tear-Resistant and Autonomous Self-Healing Semiconductor Composites. <i>Advanced Functional Materials</i> , 2020 , 30, 2000663	15.6	36
39	High-Performance Flexible Tandem Polymer Solar Cell Employing a Novel Cross-Linked Conductive Fullerene as an Electron Transport Layer. <i>Chemistry of Materials</i> , 2015 , 27, 1869-1875	9.6	35
38	Efficient and air-stable plastics-based polymer solar cells enabled by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5710		35
37	The effect of thieno[3,2-b]thiophene on the absorption, charge mobility and photovoltaic performance of diketopyrrolopyrrole-based low bandgap conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7526	7.1	34
36	Efficient all polymer solar cells from layer-evolved processing of a bilayer inverted structure. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 416-420	7.1	33
35	Solution-processed conductive interconnecting layer for highly-efficient and long-term stable monolithic perovskite tandem solar cells. <i>Nano Energy</i> , 2019 , 55, 354-367	17.1	33
34	Highly-Efficient and Long-Term Stable Perovskite Solar Cells Enabled by a Cross-Linkable n-Doped Hybrid Cathode Interfacial Layer. <i>Chemistry of Materials</i> , 2016 , 28, 6305-6312	9.6	32
33	Alternating copolymers incorporating cyclopenta[2,1-b:3,4-b']dithiophene unit and organic dyes for photovoltaic applications. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 1791-1801	2.5	31
32	Efficient semitransparent organic solar cells with good color perception and good color rendering by blade coating. <i>Organic Electronics</i> , 2017 , 43, 196-206	3.5	26
31	An integrated approach towards the fabrication of highly efficient and long-term stable perovskite nanowire solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22824-22833	13	24

30	Highly efficient and stable organic solar cell modules processed by blade coating with 5.6% module efficiency and active area of 216cm ² . <i>Progress in Photovoltaics: Research and Applications</i> , 2019 , 27, 264-274	6.8	23
29	A New sp ² -sp ² Dialkylethylene-Bridged Heptacyclic Ladder-Type Arene for High Efficiency Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 457-465	21.8	21
28	Formation of Nanostructured Fullerene Interlayer through Accelerated Self-Assembly and Cross-Linking of Trichlorosilane Moieties Leading to Enhanced Efficiency of Photovoltaic Cells. <i>Macromolecules</i> , 2013 , 46, 4781-4789	5.5	20
27	Enhanced performance of organic thin film solar cells using electrodes with nanoimprinted light-diffraction and light-diffusion structures. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6164-9	9.5	18
26	Nonfullerene Polymer Solar Cell with Large Active Area of 216 cm ² and High Power Conversion Efficiency of 7.7%. <i>Solar Rrl</i> , 2019 , 3, 1900071	7.1	17
25	Enhanced Performance and Stability of a Polymer Solar Cell by Incorporation of Vertically Aligned, Cross-Linked Fullerene Nanorods. <i>Angewandte Chemie</i> , 2011 , 123, 9558-9562	3.6	16
24	Enhanced stability and performance of air-processed perovskite solar cells via defect passivation with a thiazole-bridged diketopyrrolopyrrole-based π -conjugated polymer. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8593-8604	13	15
23	Intense Raman scattering on hybrid Au/Ag nanoplatfoms for the distinction of MMP-9-digested collagen type-I fiber detection. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 61-70	11.8	14
22	Manipulation of optical field distribution in ITO-free micro-cavity polymer tandem solar cells via the out-of-cell capping layer for high photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 961-968	13	14
21	High-performance printable hybrid perovskite solar cells with an easily accessible n-doped fullerene as a cathode interfacial layer. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31836-31844	3.6	13
20	Efficient and Stable Vacuum-Free-Processed Perovskite Solar Cells Enabled by a Robust Solution-Processed Hole Transport Layer. <i>ChemSusChem</i> , 2017 , 10, 1981-1988	8.3	12
19	Enhanced output performance and stability of triboelectric nanogenerators by employing silane-based self-assembled monolayers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4542-4548	7.1	12
18	Increased risk of major depression subsequent to a first-attack and non-infection caused urticaria in adolescence: a nationwide population-based study. <i>BMC Pediatrics</i> , 2014 , 14, 181	2.6	10
17	Toward Long-Term Stable and Efficient Large-Area Organic Solar Cells. <i>ChemSusChem</i> , 2017 , 10, 2778-2787	3.7	8
16	The effect of mechanical traction on low back pain in patients with herniated intervertebral disks: a systemic review and meta-analysis. <i>Clinical Rehabilitation</i> , 2020 , 34, 13-22	3.3	8
15	The influence of UV filter and Al/Ag moisture barrier layer on the outdoor stability of polymer solar cells. <i>Solar Energy</i> , 2020 , 199, 308-316	6.8	6
14	Effects of protein supplementation on aerobic training-induced gains in cardiopulmonary fitness, muscle mass, and functional performance in chronic stroke: A randomized controlled pilot study. <i>Clinical Nutrition</i> , 2020 , 39, 2743-2750	5.9	6
13	An Initial Attack of Urinary Stone Disease Is Associated with an Increased Risk of Developing New-Onset Irritable Bowel Syndrome: Nationwide Population-Based Study. <i>PLoS ONE</i> , 2016 , 11, e0157707	3.7	6

12	The Impact of Emergency Interventions and Patient Characteristics on the Risk of Heart Failure in Patients with Nontraumatic OHCA. <i>Emergency Medicine International</i> , 2019 , 2019, 6218389	1.4	5
11	Leakage-free solution-processed organic light-emitting diode using a ternary host with single-diode emission area up to 6 × 1.5 cm ² . <i>RSC Advances</i> , 2019 , 9, 10584-10598	3.7	4
10	Large-area blade-coated organic solar cells processed from halogen-free solvent. <i>Organic Electronics</i> , 2019 , 75, 105376	3.5	4
9	Clinical non-superiority of technology-assisted gait training with body weight support in patients with subacute stroke: A meta-analysis. <i>Annals of Physical and Rehabilitation Medicine</i> , 2020 , 63, 535-542	3.8	3
8	An electrostatically self-assembled fluorinated molecule as a surface modification layer for a high-performance and stable triboelectric nanogenerator. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4230-4239	13.4	3
7	Achieving High Power Density and Long-Term Stable Flexible Triboelectric Nanogenerators through Surface Functionalization of High Work-Function Electrode with Cationic Thiol-Based Self-Assembled Monolayer. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000985	6.8	3
6	Thermally Stable High-Performance Polymer Solar Cells Enabled by Interfacial Engineering. <i>ChemSusChem</i> , 2018 , 11, 2429-2435	8.3	3
5	Urticaria Increases the Risk of Depression in Adult Patients: A National Database Study. <i>Journal of Neuroscience and Neuroengineering</i> , 2013 , 2, 465-469		2
4	N-Type Conjugated Polymer as Multi-Functional Interfacial Layer for High-Performance and Ultra-Stable Self-Powered Photodetectors Based on Perovskite Nanowires. <i>Advanced Functional Materials</i> , 2108356	15.6	2
3	Designing bimetallic Ni-based layered double hydroxides for enzyme-free electrochemical lactate biosensors. <i>Sensors and Actuators B: Chemical</i> , 2021 , 346, 130505	8.5	1
2	10.4: Leakage-free solution organic light-emitting diode using ternary host with single-diode emission area up to 6 × 1.5 cm ² . <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 103-106	0.5	
1	Clinical treatment and medication in decreasing the development of major depression caused by spinal fracture. <i>Journal of International Medical Research</i> , 2020 , 48, 300060520972885	1.4	