Chih-Yu Chang

List of Publications by Year in Descending Order

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	An electrostatically self-assembled fluorinated molecule as a surface modification layer for a high-performance and stable triboelectric nanogenerator. *Journal of Materials Chemistry A*, **2021**, 9, 4230-4239	13	3
64	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. *Advanced Materials Technologies*, **2021**, 6, 2000985	6.8	3
63	Designing bimetallic Ni-based layered double hydroxides for enzyme-free electrochemical lactate biosensors. *Sensors and Actuators B: Chemical*, **2021**, 346, 130505	8.5	1
62	Tacky Elastomers to Enable Tear-Resistant and Autonomous Self-Healing Semiconductor Composites. *Advanced Functional Materials*, **2020**, 30, 2000663	15.6	36
61	Enhanced stability and performance of air-processed perovskite solar cells via defect passivation with a thiazole-bridged diketopyrrolopyrrole-based □conjugated polymer. *Journal of Materials Chemistry A*, **2020**, 8, 8593-8604	13	15
60	Enhanced output performance and stability of triboelectric nanogenerators by employing silane-based self-assembled monolayers. *Journal of Materials Chemistry C*, **2020**, 8, 4542-4548	7.1	12
59	The influence of UV filter and Al/Ag moisture barrier layer on the outdoor stability of polymer solar cells. *Solar Energy*, **2020**, 199, 308-316	6.8	6
58	Clinical non-superiority of technology-assisted gait training with body weight support in patients with subacute stroke: A meta-analysis. *Annals of Physical and Rehabilitation Medicine*, **2020**, 63, 535-542	3.8	3
57	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. *Clinical Nutrition*, **2020**, 39, 2743-2750	5.9	6
56	Clinical treatment and medication in decreasing the development of major depression caused by spinal fracture. *Journal of International Medical Research*, **2020**, 48, 300060520972885	1.4	
55	The effect of mechanical traction on low back pain in patients with herniated intervertebral disks: a systemic review and meta-analysis. *Clinical Rehabilitation*, **2020**, 34, 13-22	3.3	8
54	Nonfullerene Polymer Solar Cell with Large Active Area of 216 cm2 and High Power Conversion Efficiency of 7.7%. *Solar Rrl*, **2019**, 3, 1900071	7.1	17
53	Leakage-free solution-processed organic light-emitting diode using a ternary host with single-diode emission area up to 6 □1.5 cm.. *RSC Advances*, **2019**, 9, 10584-10598	3.7	4
52	Large-area blade-coated organic solar cells processed from halogen-free solvent. *Organic Electronics*, **2019**, 75, 105376	3.5	4
51	10.4: Leakage-free solution organic light-emitting diode using ternary host with single-diode emission area up to 6□1.5 cm2. *Digest of Technical Papers SID International Symposium*, **2019**, 50, 103-106	0.5	
50	The Impact of Emergency Interventions and Patient Characteristics on the Risk of Heart Failure in Patients with Nontraumatic OHCA. *Emergency Medicine International*, **2019**, 2019, 6218389	1.4	5
49	Solution-processed conductive interconnecting layer for highly-efficient and long-term stable monolithic perovskite tandem solar cells. *Nano Energy*, **2019**, 55, 354-367	17.1	33

48	Highly efficient and stable organic solar cell modules processed by blade coating with 5.6% module efficiency and active area of 216□cm2. *Progress in Photovoltaics: Research and Applications*, **2019**, 27, 264-274	6.8	23
47	Thermally Stable High-Performance Polymer Solar Cells Enabled by Interfacial Engineering. *ChemSusChem*, **2018**, 11, 2429-2435	8.3	3
46	Simple mono-halogenated perylene diimides as non-fullerene electron transporting materials in inverted perovskite solar cells with ZnO nanoparticle cathode buffer layers. *Journal of Materials Chemistry A*, **2017**, 5, 12811-12821	13	58
45	Toward Long-Term Stable and Efficient Large-Area Organic Solar Cells. *ChemSusChem*, **2017**, 10, 2778-2787	8.3	8
44	Efficient and Stable Vacuum-Free-Processed Perovskite Solar Cells Enabled by a Robust Solution-Processed Hole Transport Layer. *ChemSusChem*, **2017**, 10, 1981-1988	8.3	12
43	Efficient semitransparent organic solar cells with good color perception and good color rendering by blade coating. *Organic Electronics*, **2017**, 43, 196-206	3.5	26
42	An integrated approach towards the fabrication of highly efficient and long-term stable perovskite nanowire solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 22824-22833	13	24
41	Highly-Efficient and Long-Term Stable Perovskite Solar Cells Enabled by a Cross-Linkable n-Doped Hybrid Cathode Interfacial Layer. *Chemistry of Materials*, **2016**, 28, 6305-6312	9.6	32
40	High-performance printable hybrid perovskite solar cells with an easily accessible n-doped fullerene as a cathode interfacial layer. *Physical Chemistry Chemical Physics*, **2016**, 18, 31836-31844	3.6	13
39	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. *Journal of Materials Chemistry A*, **2016**, 4, 961-968	13	14
38	Room-Temperature Solution-Processed n-Doped Zirconium Oxide Cathode Buffer Layer for Efficient and Stable Organic and Hybrid Perovskite Solar Cells. *Chemistry of Materials*, **2016**, 28, 242-251	9.6	45
37	A solution-processed n-doped fullerene cathode interfacial layer for efficient and stable large-area perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 640-648	13	95
36	An Initial Attack of Urinary Stone Disease Is Associated with an Increased Risk of Developing New-Onset Irritable Bowel Syndrome: Nationwide Population-Based Study. *PLoS ONE*, **2016**, 11, e0157701	3.7	6
35	Achieving high efficiency and improved stability in large-area ITO-free perovskite solar cells with thiol-functionalized self-assembled monolayers. *Journal of Materials Chemistry A*, **2016**, 4, 7903-7913	13	54
34	High-Performance Flexible Tandem Polymer Solar Cell Employing a Novel Cross-Linked Conductive Fullerene as an Electron Transport Layer. *Chemistry of Materials*, **2015**, 27, 1869-1875	9.6	35
33	High-Performance, Air-Stable, Low-Temperature Processed Semitransparent Perovskite Solar Cells Enabled by Atomic Layer Deposition. *Chemistry of Materials*, **2015**, 27, 5122-5130	9.6	178
32	Intense Raman scattering on hybrid Au/Ag nanoplatforms for the distinction of MMP-9-digested collagen type-I fiber detection. *Biosensors and Bioelectronics*, **2015**, 72, 61-70	11.8	14
31	Design of a versatile interconnecting layer for highly efficient series-connected polymer tandem solar cells. *Energy and Environmental Science*, **2015**, 8, 1712-1718	35.4	97

30	Enhanced Performance and Stability of Semitransparent Perovskite Solar Cells Using Solution-Processed Thiol-Functionalized Cationic Surfactant as Cathode Buffer Layer. *Chemistry of Materials*, **2015**, 27, 7119-7127	9.6	67
29	Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. *Advanced Energy Materials*, **2014**, 4, 1301645	21.8	65
28	Efficient all polymer solar cells from layer-evolved processing of a bilayer inverted structure. *Journal of Materials Chemistry C*, **2014**, 2, 416-420	7.1	33
27	Suppressed charge recombination in inverted organic photovoltaics via enhanced charge extraction by using a conductive fullerene electron transport layer. *Advanced Materials*, **2014**, 26, 6262-7	24	198
26	Increased risk of major depression subsequent to a first-attack and non-infection caused urticaria in adolescence: a nationwide population-based study. *BMC Pediatrics*, **2014**, 14, 181	2.6	10
25	Enhanced performance of organic thin film solar cells using electrodes with nanoimprinted light-diffraction and light-diffusion structures. *ACS Applied Materials & Interfaces*, **2014**, 6, 6164-9	9.5	18
24	Interfacial engineering of ultrathin metal film transparent electrode for flexible organic photovoltaic cells. *Advanced Materials*, **2014**, 26, 3618-23	24	159
23	Increased risk of major depression in the three years following a femoral neck fracture--a national population-based follow-up study. *PLoS ONE*, **2014**, 9, e89867	3.7	47
22	A Versatile Fluoro-Containing Low-Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. *Advanced Functional Materials*, **2013**, 23, 5084-5090	15.6	98
21	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. *Energy and Environmental Science*, **2013**, 6, 3241	35.4	160
20	The effect of thieno[3,2-b]thiophene on the absorption, charge mobility and photovoltaic performance of diketopyrrolopyrrole-based low bandgap conjugated polymers. *Journal of Materials Chemistry C*, **2013**, 1, 7526	7.1	34
19	Indacenodithieno[3,2-b]thiophene-based broad bandgap polymers for high efficiency polymer solar cells. *Polymer Chemistry*, **2013**, 4, 5220	4.9	42
18	A New sp2-sp2 Dialkylethylene-Bridged Heptacyclic Ladder-Type Arene for High Efficiency Polymer Solar Cells. *Advanced Energy Materials*, **2013**, 3, 457-465	21.8	21
17	Formation of Nanostructured Fullerene Interlayer through Accelerated Self-Assembly and Cross-Linking of Trichlorosilane Moieties Leading to Enhanced Efficiency of Photovoltaic Cells. *Macromolecules*, **2013**, 46, 4781-4789	5.5	20
16	Urticaria Increases the Risk of Depression in Adult Patients: A National Database Study. *Journal of Neuroscience and Neuroengineering*, **2013**, 2, 465-469		2
15	Combination of molecular, morphological, and interfacial engineering to achieve highly efficient and stable plastic solar cells. *Advanced Materials*, **2012**, 24, 549-53	24	151
14	Diindenothieno[2,3-b]thiophene arene for efficient organic photovoltaics with an extra high open-circuit voltage of 1.14 ev. *Chemical Communications*, **2012**, 48, 3203-5	5.8	47
13	Synthesis of a New Ladder-Type Benzodi(cyclopentadithiophene) Arene with Forced Planarization Leading to an Enhanced Efficiency of Organic Photovoltaics. *Chemistry of Materials*, **2012**, 24, 3964-3971	9.6	94

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12	Dithienocarbazole-Based Ladder-Type Heptacyclic Arenes with Silicon, Carbon, and Nitrogen Bridges: Synthesis, Molecular Properties, Field-Effect Transistors, and Photovoltaic Applications. *Advanced Functional Materials*, **2012**, 22, 1711-1722	15.6	90
11	Donor–Acceptor Random Copolymers Based on a Ladder-Type Nonacyclic Unit: Synthesis, Characterization, and Photovoltaic Applications. *Macromolecules*, **2011**, 44, 8415-8424	5.5	55
10	Carbazole-Based Ladder-Type Heptacylic Arene with Aliphatic Side Chains Leading to Enhanced Efficiency of Organic Photovoltaics. *Chemistry of Materials*, **2011**, 23, 2361-2369	9.6	107
9	Di(4-methylphenyl)methano-C60 Bis-Adduct for Efficient and Stable Organic Photovoltaics with Enhanced Open-Circuit Voltage. *Chemistry of Materials*, **2011**, 23, 4056-4062	9.6	89
8	Alternating copolymers incorporating cyclopenta[2,1-b:3,4-b?]dithiophene unit and organic dyes for photovoltaic applications. *Journal of Polymer Science Part A*, **2011**, 49, 1791-1801	2.5	31
7	Enhanced Performance and Stability of a Polymer Solar Cell by Incorporation of Vertically Aligned, Cross-Linked Fullerene Nanorods. *Angewandte Chemie*, **2011**, 123, 9558-9562	3.6	16
6	Enhanced performance and stability of a polymer solar cell by incorporation of vertically aligned, cross-linked fullerene nanorods. *Angewandte Chemie - International Edition*, **2011**, 50, 9386-90	16.4	156
5	Efficient and air-stable plastics-based polymer solar cells enabled by atomic layer deposition. *Journal of Materials Chemistry*, **2011**, 21, 5710		35
4	Ladder-Type Nonacyclic Structure Consisting of Alternate Thiophene and Benzene Units for Efficient Conventional and Inverted Organic Photovoltaics. *Chemistry of Materials*, **2011**, 23, 5068-5075	9.6	56
3	Thin-film encapsulation of polymer-based bulk-heterojunction photovoltaic cells by atomic layer deposition. *Organic Electronics*, **2009**, 10, 1300-1306	3.5	64
2	Enhanced OLED performance upon photolithographic patterning by using an atomic-layer-deposited buffer layer. *Organic Electronics*, **2008**, 9, 667-672	3.5	41
1	N-Type Conjugated Polymer as Multi-Functional Interfacial Layer for High-Performance and Ultra-Stable Self-Powered Photodetectors Based on Perovskite Nanowires. *Advanced Functional Materials*,2108356	15.6	2