

Chih-Yu Chang

List of Publications by Year in descending order

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126907

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times ranked

4747

citing authors

#	ARTICLE	IF	CITATIONS
1	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, 6262-6267.	21.0	206
2	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.	6.7	203
3	Interfacial Engineering of Ultrathin Metal Film Transparent Electrode for Flexible Organic Photovoltaic Cells. <i>Advanced Materials</i> , 2014, 26, 3618-3623.	21.0	178
4	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 3241.	30.8	168
5	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, 9386-9390.	13.8	162
6	Combination of Molecular, Morphological, and Interfacial Engineering to Achieve Highly Efficient and Stable Plastic Solar Cells. <i>Advanced Materials</i> , 2012, 24, 549-553.	21.0	155
7	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.	10.3	119
8	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.	6.7	111
9	A Versatile Fluoro-Containing Low-Bandgap Polymer for Efficient Semitransparent and Tandem Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2013, 23, 5084-5090.	14.9	110
10	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.	30.8	101
11	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.	6.7	97
12	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.	14.9	92
13	Di(4-methylphenyl)methano-C ₆₀ Bis-Adduct for Efficient and Stable Organic Photovoltaics with Enhanced Open-Circuit Voltage. <i>Chemistry of Materials</i> , 2011, 23, 4056-4062.	6.7	90
14	Tacky Elastomers to Enable Tear-Resistant and Autonomous Self-Healing Semiconductor Composites. <i>Advanced Functional Materials</i> , 2020, 30, 2000663.	14.9	85
15	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.	6.7	78
16	Highly Efficient Polymer Tandem Cells and Semitransparent Cells for Solar Energy. <i>Advanced Energy Materials</i> , 2014, 4, 1301645.	19.5	71
17	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.	10.3	69
18	Thin-film encapsulation of polymer-based bulk-heterojunction photovoltaic cells by atomic layer deposition. <i>Organic Electronics</i> , 2009, 10, 1300-1306.	2.6	66

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19	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.	10.3	64
20	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.	6.7	58
21	Donor-Acceptor Random Copolymers Based on a Ladder-Type Nonacyclic Unit: Synthesis, Characterization, and Photovoltaic Applications. <i>Macromolecules</i> , 2011, 44, 8415-8424.	4.8	57
22	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.	2.5	55
23	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.	6.7	53
24	Diindenothieno[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.	4.1	47
25	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.	16.0	47
26	Enhanced OLED performance upon photolithographic patterning by using an atomic-layer-deposited buffer layer. <i>Organic Electronics</i> , 2008, 9, 667-672.	2.6	45
27	Indacenodithieno[3,2-b]thiophene-based broad bandgap polymers for high efficiency polymer solar cells. <i>Polymer Chemistry</i> , 2013, 4, 5220.	3.9	42
28	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.	5.5	38
29	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.	6.7	38
30	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.	6.7	38
31	Efficient and air-stable plastics-based polymer solar cells enabled by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2011, 21, 5710.	6.7	37
32	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.	5.5	37
33	Highly efficient and stable organic solar cell modules processed by blade coating with 5.6% module efficiency and active area of 216 cm ² . <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 264-274.	8.1	34
34	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.	2.3	33
35	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.	10.3	33
36	Efficient semitransparent organic solar cells with good color perception and good color rendering by blade coating. <i>Organic Electronics</i> , 2017, 43, 196-206.	2.6	32

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37	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.	5.5	26
38	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.	5.8	25
39	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.	10.3	24
40	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.	19.5	22
41	Designing bimetallic Ni-based layered double hydroxides for enzyme-free electrochemical lactate biosensors. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130505.	7.8	22
42	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.	4.8	21
43	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.	2.2	21
44	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, 6164-6169.	8.0	20
45	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.	10.1	18
46	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.	10.3	16
47	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.	2.8	15
48	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.	10.3	15
49	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.	6.8	14
50	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.	1.7	13
51	Toward Long-Term Stable and Efficient Large-Area Organic Solar Cells. <i>ChemSusChem</i> , 2017, 10, 2778-2787.	6.8	12
52	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.	5.8	11
53	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.	6.1	10
54	Large-area blade-coated organic solar cells processed from halogen-free solvent. <i>Organic Electronics</i> , 2019, 75, 105376.	2.6	9

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55	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.	2.3	9
56	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.	5.0	9
57	Thermoelectric properties of electrically stressed Sb/Bi ₂ Te multilayered films. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	8
58	N-type Conjugated Polymer as Multifunctional Interfacial Layer for High-Performance and Ultra-Stable Self-Powered Photodetectors Based on Perovskite Nanowires. <i>Advanced Functional Materials</i> , 0, , 2108356.	14.9	8
59	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, e0157701.	2.5	7
60	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, 1-10.	0.8	7
61	Leakage-free solution-processed organic light-emitting diode using a ternary host with single-diode emission area up to 6 Å ² –11.5 cm ² . <i>RSC Advances</i> , 2019, 9, 10584-10598.	3.6	5
62	Thermally Stable High-Performance Polymer Solar Cells Enabled by Interfacial Engineering. <i>ChemSusChem</i> , 2018, 11, 2429-2435.	6.8	4
63	Urticaria Increases the Risk of Depression in Adult Patients: A National Database Study. <i>Journal of Neuroscience and Neuroengineering</i> , 2013, 2, 465-469.	0.2	2
64	10.4: Leakage-free solution organic light-emitting diode using ternary host with single-diode emission area up to 6 Å ² –11.5 cm ² . <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 103-106.	0.3	0
65	Clinical treatment and medication in decreasing the development of major depression caused by spinal fracture. <i>Journal of International Medical Research</i> , 2020, 48, 030006052097288.	1.0	0
66	Effect of dialyzer membranes on mortality in uremic patients undergoing long-term hemodialysis: A Nationwide population-based study using the Taiwan Dialysis Registry Data System 2005–2012. <i>Therapeutic Apheresis and Dialysis</i> , 2021, , .	0.9	0