

Aung Ko Ko Kyaw

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96
papers

5,458
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33
h-index

73
g-index

102
ext. papers

6,157
ext. citations

7.9
avg, IF

5.67
L-index

#	Paper	IF	Citations
96	Intensity dependence of current-voltage characteristics and recombination in high-efficiency solution-processed small-molecule solar cells. <i>ACS Nano</i> , 2013 , 7, 4569-77	16.7	675
95	Improved light harvesting and improved efficiency by insertion of an optical spacer (ZnO) in solution-processed small-molecule solar cells. <i>Nano Letters</i> , 2013 , 13, 3796-801	11.5	504
94	An inverted organic solar cell employing a sol-gel derived ZnO electron selective layer and thermal evaporated MoO ₃ hole selective layer. <i>Applied Physics Letters</i> , 2008 , 93, 221107	3.4	475
93	Efficient solution-processed small-molecule solar cells with inverted structure. <i>Advanced Materials</i> , 2013 , 25, 2397-402	24	453
92	General strategy for self-assembly of highly oriented nanocrystalline semiconducting polymers with high mobility. <i>Nano Letters</i> , 2014 , 14, 2764-71	11.5	372
91	Barium: an efficient cathode layer for bulk-heterojunction solar cells. <i>Scientific Reports</i> , 2013 , 3, 1965	4.9	322
90	Effects of Solvent Additives on Morphology, Charge Generation, Transport, and Recombination in Solution-Processed Small-Molecule Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301469	21.8	180
89	An inverted organic solar cell with an ultrathin Ca electron-transporting layer and MoO ₃ hole-transporting layer. <i>Applied Physics Letters</i> , 2009 , 95, 153304	3.4	153
88	High-bendability flexible dye-sensitized solar cell with a nanoparticle-modified ZnO-nanowire electrode. <i>Applied Physics Letters</i> , 2008 , 92, 143101	3.4	138
87	Organic interfacial materials for perovskite-based optoelectronic devices. <i>Energy and Environmental Science</i> , 2019 , 12, 1177-1209	35.4	125
86	Efficient tandem organic solar cells with an Al/MoO ₃ intermediate layer. <i>Applied Physics Letters</i> , 2008 , 93, 083305	3.4	125
85	Biodegradable electronics: cornerstone for sustainable electronics and transient applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5531-5558	7.1	124
84	Optimization of an inverted organic solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 985-991	6.4	97
83	Enhanced Efficiency Parameters of Solution-Processable Small-Molecule Solar Cells Depending on ITO Sheet Resistance. <i>Advanced Energy Materials</i> , 2013 , 3, 1161-1165	21.8	88
82	Low work function metal modified ITO as cathode for inverted polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1618-1621	6.4	88
81	Enhancement of thermoelectric performance of PEDOT:PSS films by post-treatment with a superacid.. <i>RSC Advances</i> , 2018 , 8, 18334-18340	3.7	74
80	Biodegradable Materials and Green Processing for Green Electronics. <i>Advanced Materials</i> , 2020 , 32, e2001591	14.91	71

79	Inverted tandem organic solar cells with a MoO ₃ /Ag/Al/Ca intermediate layer. <i>Applied Physics Letters</i> , 2010 , 97, 053303	3.4	66
78	Dye-sensitized solar cell with a titanium-oxide-modified carbon nanotube transparent electrode. <i>Applied Physics Letters</i> , 2011 , 99, 021107	3.4	64
77	A plasmonically enhanced polymer solar cell with gold-silica core-shell nanorods. <i>Organic Electronics</i> , 2013 , 14, 2360-2368	3.5	54
76	Enhanced Thermoelectric Performance of PEDOT:PSS Films by Sequential Post-Treatment with Formamide. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700429	3.9	52
75	Defects Passivation With Dithienobenzodithiophene-based Conjugated Polymer for Enhanced Performance of Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900029	7.1	50
74	Optimization of inverted tandem organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 921026	4.2	49
73	Enhanced Power Conversion Efficiency of Low Band-Gap Polymer Solar Cells by Insertion of Optimized Binary Processing Additives. <i>Advanced Energy Materials</i> , 2014 , 4, 1300835	21.8	40
72	Dye-sensitized solar cell with a pair of carbon-based electrodes. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 165103	3	40
71	Nitrogen-doped carbon nanotube-based bilayer thin film as transparent counter electrode for dye-sensitized solar cells (DSSCs). <i>Chemistry - an Asian Journal</i> , 2012 , 7, 541-5	4.5	40
70	Color tunable light-emitting diodes based on p ⁺ -Si/p-CuAlO ₂ /n-ZnO nanorod array heterojunctions. <i>Applied Physics Letters</i> , 2010 , 97, 013101	3.4	40
69	A novel parallel configuration of dye-sensitized solar cells with double-sided anodic nanotube arrays. <i>Energy and Environmental Science</i> , 2011 , 4, 2240	35.4	39
68	Effect of processing additive on morphology and charge extraction in bulk-heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15052-15057	13	38
67	An Efficient Triple-Tandem Polymer Solar Cell. <i>IEEE Electron Device Letters</i> , 2009 , 30, 490-492	4.4	38
66	Quantifying interface states and bulk defects in high-efficiency solution-processed small-molecule solar cells by impedance and capacitance characteristics. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1526-1535	6.8	34
65	Efficient defect-passivation and charge-transfer with interfacial organophosphorus ligand modification for enhanced performance of perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 211, 110527	6.4	34
64	High open-circuit voltage small-molecule p-DTS(FBTTh ₂):ICBA bulk heterojunction solar cells □ morphology, excited-state dynamics, and photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1530-1539	13	33
63	Modulation of the doping level of PEDOT:PSS film by treatment with hydrazine to improve the Seebeck coefficient.. <i>RSC Advances</i> , 2020 , 10, 1786-1792	3.7	32
62	Improved Inverted Organic Solar Cells With a Sol-Gel Derived Indium-Doped Zinc Oxide Buffer Layer. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 1700-1706	3.8	32

61	High-Performance Inverted Planar Perovskite Solar Cells Enhanced by Thickness Tuning of New Dopant-Free Hole Transporting Layer. <i>Small</i> , 2019 , 15, e1904715	11	30
60	Tunable photovoltaic effect and solar cell performance of self-doped perovskite SrTiO ₃ . <i>AIP Advances</i> , 2012 , 2, 042131	1.5	28
59	A Bifunctional Saddle-Shaped Small Molecule as a Dopant-Free Hole Transporting Material and Interfacial Layer for Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900011	7.1	27
58	Efficient extraction of singlet-triplet excitons for high-efficient white organic light-emitting diode with a multilayer emission region. <i>Organic Electronics</i> , 2011 , 12, 1-7	3.5	27
57	Top-illuminated dye-sensitized solar cells with a room-temperature-processed ZnO photoanode on metal substrates and a Pt-coated Ga-doped ZnO counter electrode. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 045102	3	26
56	Improved Thermoelectric Properties and Environmental Stability of Conducting PEDOT:PSS Films Post-treated With Imidazolium Ionic Liquids. <i>Frontiers in Chemistry</i> , 2019 , 7, 870	5	24
55	Recent progress in organic solar cells based on non-fullerene acceptors: materials to devices. <i>Journal of Materials Chemistry A</i> ,	13	24
54	Enhanced efficiency of solution-processed small-molecule solar cells upon incorporation of gold nanospheres and nanorods into organic layers. <i>Chemical Communications</i> , 2014 , 50, 4451-4	5.8	23
53	A nanogroove-guided slot-die coating technique for highly ordered polymer films and high-mobility transistors. <i>Chemical Communications</i> , 2016 , 52, 358-61	5.8	22
52	The properties of sol-gel processed indium-doped zinc oxide semiconductor film and its application in organic solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 2635-2642	1.6	22
51	Influence of gold-silica nanoparticles on the performance of small-molecule bulk heterojunction solar cells. <i>Organic Electronics</i> , 2015 , 22, 20-28	3.5	18
50	Efficient charge collection with sol-gel derived colloidal ZnO thin film in photovoltaic devices. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 52, 348-355	2.3	18
49	Enhanced thermoelectric performance of poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) (PEDOT:PSS) with long-term humidity stability via sequential treatment with trifluoroacetic acid. <i>Polymer International</i> , 2020 , 69, 84-92	3.3	18
48	High-performance and low-energy loss organic solar cells with non-fused ring acceptor by alkyl chain engineering. <i>Chemical Engineering Journal</i> , 2021 , 420, 129768	14.7	17
47	Light Trapping in Inverted Organic Photovoltaics With Nanoimprinted ZnO Photonic Crystals. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 545-549	3.7	15
46	Effect of shell thickness on small-molecule solar cells enhanced by dual plasmonic gold-silica nanorods. <i>Applied Physics Letters</i> , 2014 , 105, 113306	3.4	14
45	Electron and hole mobility in solution-processed small molecule-fullerene blend: Dependence on the fullerene content. <i>Applied Physics Letters</i> , 2013 , 102, 163308	3.4	14
44	Microstructured porous ZnO thin film for increased light scattering and improved efficiency in inverted organic photovoltaics. <i>Optics Express</i> , 2014 , 22 Suppl 6, A1412-21	3.3	12

43	Effective ionic Seebeck component suppression in mixed ion-electron conductor via chemical treatment. <i>Organic Electronics</i> , 2019 , 69, 7-12	3.5	12
42	Simultaneous improvement in electrical conductivity and Seebeck coefficient of PEDOT:PSS by N pressure-induced nitric acid treatment.. <i>RSC Advances</i> , 2018 , 8, 36563-36570	3.7	12
41	Sodium formaldehyde sulfoxylate, an ionic-type, water-soluble reducing reagent to effectively improve seebeck coefficient of PEDOT:PSS film. <i>Organic Electronics</i> , 2020 , 81, 105682	3.5	11
40	A polymer transistor array with a pressure-sensitive elastomer for electronic skin. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12039-12043	7.1	11
39	Efficient and stable mesoscopic perovskite solar cell in high humidity by localized Dion-Jacobson 2D-3D heterostructures. <i>Nano Energy</i> , 2021 , 106666	17.1	11
38	Electron-deficient diketone unit engineering for non-fused ring acceptors enabling over 13% efficiency in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14948-14957	13	11
37	Efficient Semi-Transparent Organic Solar Cells with High Color Rendering Index Enabled by Self-Assembled and Knitted AgNPs/MWCNTs Transparent Top Electrode via Solution Process. <i>Advanced Optical Materials</i> , 2021 , 9, 2002108	8.1	10
36	Triple non-covalent dynamic interactions enabled a tough and rapid room temperature self-healing elastomer for next-generation soft antennas. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25073-25084	13	9
35	Binary treatment of PEDOT:PSS films with nitric acid and imidazolium-based ionic liquids to improve the thermoelectric properties. <i>Materials Advances</i> , 2020 , 1, 3233-3242	3.3	9
34	Thermally Stable and Sterilizable Polymer Transistors for Reusable Medical Devices. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9533-9	9.5	9
33	Enhanced fill factor of tandem organic solar cells incorporating a diketopyrrolopyrrole-based low-bandgap polymer and optimized interlayer. <i>ChemSusChem</i> , 2015 , 8, 331-6	8.3	8
32	Effect of substituents in sulfoxides on the enhancement of thermoelectric properties of PEDOT:PSS: experimental and modelling evidence. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 976-984	4.6	7
31	Temperature and light dependent diode current in high-efficiency solution-processed small-molecule solar cells. <i>Organic Electronics</i> , 2014 , 15, 2141-2147	3.5	7
30	Efficient as-cast thick film small-molecule organic solar cell with less fluorination on the donor. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 206-212	7.8	7
29	Water-dispersible conducting polyazulene and its application in thermoelectrics. <i>Chemical Communications</i> , 2020 , 56, 9388-9391	5.8	7
28	Single crystal of two-dimensional mixed-halide copper-based perovskites with reversible thermochromism. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3264-3270	7.1	7
27	Controlling Electronic States of Few-walled Carbon Nanotube Yarn via Joule-annealing and p-type Doping Towards Large Thermoelectric Power Factor. <i>Scientific Reports</i> , 2020 , 10, 7307	4.9	6
26	Roles of solvent additive in organic photovoltaic cells through intensity dependence of current-voltage characteristics and charge recombination. <i>Applied Physics Letters</i> , 2014 , 105, 103301	3.4	6

25	Near-infrared non-fused ring acceptors with light absorption up to 1000nm for efficient and low-energy loss organic solar cells. <i>Materials Today Energy</i> , 2022 , 24, 100938	7	6
24	Dopant-Free and Green-Solvent-Processable Hole-Transporting Materials for Highly Efficient Inverted Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000327	7.1	6
23	Universal Strategy for Improving Perovskite Photodiode Performance: Interfacial Built-In Electric Field Manipulated by Unintentional Doping. <i>Advanced Science</i> , 2021 , 8, e2101729	13.6	6
22	Demonstration of the portability of porous microstructure architecture to indium-doped ZnO electron selective layer for enhanced light scattering in inverted organic photovoltaics. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 78, 613-620	2.3	5
21	Selective Soxhlets extraction to enhance solubility of newly-synthesized poly(indoloindole-selenophene vinylene selenophene) donor for photovoltaic applications. <i>Nano Convergence</i> , 2020 , 7, 9	9.2	5
20	Defect Passivation of CsPbBr ₃ with AgBr for High-Performance All-Inorganic Perovskite Solar Cells. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000099	1.6	5
19	High-performance quasi-2D perovskite solar cells with power conversion efficiency over 20% fabricated in humidity-controlled ambient air. <i>Chemical Engineering Journal</i> , 2021 , 427, 130949	14.7	5
18	Energy-Level Manipulation in Novel Indacenodithiophene-Based Donor-Acceptor Polymers for Near-Infrared Organic Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29866-29875	9.5	5
17	Influence of pressure of nitrogen gas on structure and thermoelectric properties of acid-treated PEDOT:PSS films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 13534-13542	2.1	3
16	Tailoring of the plasmonic and waveguide effect in bulk-heterojunction photovoltaic devices with ordered, nanopatterned structures. <i>Organic Electronics</i> , 2014 , 15, 3120-3126	3.5	3
15	High-Performance Semitransparent Organic Solar Cells Enabled by Improved Charge Transport and Optical Engineering of Ternary Blend Active Layer. <i>Solar Rrl</i> , 2100785	7.1	3
14	An ultrafast-response and high-detectivity self-powered perovskite photodetector based on a triazine-derived star-shaped small molecule as a dopant-free hole transporting layer. <i>Journal of Materials Chemistry C</i> ,	7.1	3
13	Simultaneous enhancements in the Seebeck coefficient and conductivity of PEDOT:PSS by blending ferroelectric BaTiO ₃ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16952-16960	13	3
12	Dual-functional ambipolar non-fused ring electron acceptor as third component and designing similar molecular structure between two acceptors for high-performance ternary organic solar cells. <i>Nano Energy</i> , 2022 , 98, 107186	17.1	3
11	Organic Solar Cells with Inverted and Tandem Structures. <i>Green Energy and Technology</i> , 2011 , 115-170	0.6	2
10	1 $\leq \eta > 2$: Dual strategies of quinolinic acid passivation and DMF solvent annealing for high-performance inverted perovskite solar cell. <i>Chemical Engineering Journal</i> , 2022 , 435, 135107	14.7	2
9	Green Electronics: Biodegradable Materials and Green Processing for Green Electronics (Adv. Mater. 33/2020). <i>Advanced Materials</i> , 2020 , 32, 2070245	24	2
8	Improved room-temperature thermoelectric characteristics in F4TCNQ-doped CNT yarn/P3HT composite by controlled doping. <i>Organic Electronics</i> , 2021 , 90, 106056	3.5	2

7	Heterojunction Solar Cells. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-2	2.1	1
6	Solar Cell as an Energy Harvesting Device 2012 , 463-539		1
5	Dopant-Free and Green-Solvent-Processable Hole-Transporting Materials for Highly Efficient Inverted Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2070105	7.1	1
4	Structural Geometry Variation of 1,4-Naphthalene-Based Co-Polymers to Tune the Device Performance of PVK-Host-Based OLEDs. <i>Polymers</i> , 2021 , 13,	4.5	1
3	Dopant-Free Hole Transporting Material Based on Nonconjugated Adamantane for High-Performance Perovskite Solar Cells. <i>Frontiers in Chemistry</i> , 2021 , 9, 746365	5	0
2	A Bifunctional Saddle-Shaped Small Molecule as a Dopant-Free Hole Transporting Material and Interfacial Layer for Efficient and Stable Perovskite Solar Cells (Solar RRL 52019). <i>Solar Rrl</i> , 2019 , 3, 1970054	7.1	1
1	Screen printing strategy for fabricating flexible crystallized perovskite nanocomposite patterns with high photoluminescence. <i>Flexible and Printed Electronics</i> , 2022 , 7, 015010	3.1	