Marios Neophytou

List of Publications by Year
in descending order

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27 papers	2,238 citations	361388 20 h-index	552766 26 g-index
27 all docs	27 docs citations	27 times ranked	3802 citing authors

#	Article	IF	Citations
1	Reducing the efficiencyâ€“stabilityâ€“cost gap of organic photovoltaics with highly efficient and stable small molecule acceptor ternary solar cells. Nature Materials, 2017, 16, 363-369.	27.5	921
2	Robust nonfullerene solar cells approaching unity external quantum efficiency enabled by suppression of geminate recombination. Nature Communications, 2018, 9, 2059.	12.8	164
3	Amorphous Tin Oxide as a Low-Temperature-Processed Electron-Transport Layer for Organic and Hybrid Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 11828-11836.	8.0	145
4	Highly Efficient and Reproducible Nonfullerene Solar Cells from Hydrocarbon Solvents. ACS Energy Letters, 2017, 2, 1494-1500.	17.4	89
5	Room-Temperature-Sputtered Nanocrystalline Nickel Oxide as Hole Transport Layer for pâ€“iâ€“n Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 6227-6233.	5.1	88
6	Highly Stretchable and Air-Stable PEDOT:PSS/Ionic Liquid Composites for Efficient Organic Thermoelectrics. Chemistry of Materials, 2019, 31, 3519-3526.	6.7	81
7	Improved Efficiency in Inverted Perovskite Solar Cells Employing a Novel Diarylaminoâ€Substituted Molecule as PEDOT:PSS Replacement. Advanced Energy Materials, 2016, 6, 1502101.	19.5	78
8	Regiochemistry-Driven Organic Electrochemical Transistor Performance Enhancement in Ethylene Glycol-Functionalized Polythiophenes. Journal of the American Chemical Society, 2021, 143, 11007-11018.	13.7	74
9	Homoâ€Tandem Polymer Solar Cells with V_{OC} >1.8 V for Efficient PVâ€Driven Water Splitting. Advanced Materials, 2016, 28, 3366-3373.	21.0	57
10	High mobility, hole transport materials for highly efficient PEDOT:PSS replacement in inverted perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 4940-4945.	5.5	56
11	One-Step Facile Synthesis of a Simple Hole Transport Material for Efficient Perovskite Solar Cells. Chemistry of Materials, 2016, 28, 2515-2518.	6.7	51
12	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO₃) Electron Transport Layer. ACS Applied Energy Materials, 2019, 2, 8090-8097.	5.1	51
13	Microwave-synthesized tin oxide nanocrystals for low-temperature solution-processed planar junction organo-halide perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 7759-7763.	10.3	45
14	Use of the Phenâ€NaDPO:Sn(SCN)₂ Blend as Electron Transport Layer Results to Consistent Efficiency Improvements in Organic and Hybrid Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1905810.	14.9	41
15	End Group Tuning in Acceptorâ€“Donorâ€“Acceptor Nonfullerene Small Molecules for High Fill Factor Organic Solar Cells. Advanced Functional Materials, 2019, 29, 1808429.	14.9	41
16	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. Energy and Environmental Science, 2020, 13, 268-276.	30.8	40
17	Infrared Organic Photodetectors Employing Ultralow Bandgap Polymer and Nonâ€Fullerene Acceptors for Biometric Monitoring. Small, 2022, 18, e2200580.	10.0	39
18	Impact of Polymer Side Chain Modification on OPV Morphology and Performance. Chemistry of Materials, 2018, 30, 7872-7884.	6.7	38

#	Article	IF	Citations
19	Non-fullerene-based organic photodetectors for infrared communication. Journal of Materials Chemistry C, 2021, 9, 2375-2380.	5.5	37
20	Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4Tâ€2DT/Nonfullerene Organic Solar Cells. Advanced Energy Materials, 2020, 10, 1903248.	19.5	23
21	Carrier Extraction from Perovskite to Polymeric Charge Transport Layers Probed by Ultrafast Transient Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 6921-6928.	4.6	19
22	Low-Temperature Cross-Linking Benzocyclobutene Based Polymer Dielectric for Organic Thin Film Transistors on Plastic Substrates. Journal of Organic Chemistry, 2020, 85, 277-283.	3.2	17
23	A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2004273.	14.9	17
24	Triarylphosphine Oxide as Cathode Interfacial Material for Inverted Perovskite Solar Cells. Advanced Materials Interfaces, 2019, 6, 1900434.	3.7	16
25	Alternative Thieno[3,2â€b][1]benzothiophene Isoindigo Polymers for Solar Cell Applications. Macromolecular Rapid Communications, 2018, 39, e1700820.	3.9	9
26	Solar Cells: Homo-Tandem Polymer Solar Cells with V OC >1.8 V for Efficient PV-Driven Water Splitting (Adv. Mater. 17/2016). Advanced Materials, 2016, 28, 3412-3412.	21.0	1
27	Influence of Polymer Aggregation and Liquid Immiscibility on Morphology Tuning by Varying Composition in PffBT4T-2DT/Non-Fullerene Organic Solar Cells. Advanced Energy Materials, 2020, 10, .	19.5	0