OmarÂ M Awartani

List of Publications by Year
in descending order

15 papers	1,214 citations	759233 12 h-index	996975 15 g-index
16 all docs	16 docs citations	16 times ranked	1904 citing authors

#	Article	IF	Citations
1	Resolving the Molecular Origin of Mechanical Relaxations in Donorâ€“Acceptor Polymer Semiconductors. Advanced Functional Materials, 2022, 32, 2105597.	14.9	15
2	Conjugated polymers with controllable interfacial order and energetics enable tunable heterojunctions in organic and colloidal quantum dot photovoltaics. Journal of Materials Chemistry A, 2022, 10, 1788-1801.	10.3	6
3	Highâ€Performance Wide Bandgap Copolymers Using an EDOT Modified Benzodithiophene Donor Block with 10.11% Efficiency. Advanced Energy Materials, 2018, 8, 1602773.	19.5	35
4	Polymer non-fullerene solar cells of vastly different efficiencies for minor side-chain modification: impact of charge transfer, carrier lifetime, morphology and mobility. Journal of Materials Chemistry A, 2018, 6, 12484-12492.	10.3	43
5	Side-chain engineering of perylenediimide-vinylene polymer acceptors for high-performance all-polymer solar cells. Materials Chemistry Frontiers, 2017, 1, 1362-1368.	5.9	24
6	Improved Performance of Allâ€Polymer Solar Cells Enabled by Naphthodiperylenetetraimideâ€Based Polymer Acceptor. Advanced Materials, 2017, 29, 1700309.	21.0	306
7	Panchromatic Sequentially Cast Ternary Polymer Solar Cells. Advanced Materials, 2017, 29, 1604603.	21.0	87
8	Highâ€Efficiency Nonfullerene Organic Solar Cells: Critical Factors that Affect Complex Multiâ€Length Scale Morphology and Device Performance. Advanced Energy Materials, 2017, 7, 1602000.	19.5	232
9	Microstructural behavior and failure mechanisms of organic semicrystalline thin film blends. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 896-907.	2.1	10
10	A direct correlation of x-ray diffraction orientation distributions to the in-plane stiffness of semi-crystalline organic semiconducting films. Applied Physics Letters, 2016, 108, 181902.	3.3	6
11	A Vinyleneâ€Bridged Perylenediimideâ€Based Polymeric Acceptor Enabling Efficient Allâ€Polymer Solar Cells Processed under Ambient Conditions. Advanced Materials, 2016, 28, 8483-8489.	21.0	222
12	Tuning Open-Circuit Voltage in Organic Solar Cells with Molecular Orientation. ACS Applied Materials & Interfaces, 2015, 7, 13208-13216.	8.0	64
13	Inâ€Plane Alignment in Organic Solar Cells to Probe the Morphological Dependence of Charge Recombination. Advanced Functional Materials, 2015, 25, 1296-1303.	14.9	12
14	Organic photovoltaic cells with controlled polarization sensitivity. Applied Physics Letters, 2014, 104, .	3.3	25
15	Correlating Stiffness, Ductility, and Morphology of Polymer:Fullerene Films for Solar Cell Applications. Advanced Energy Materials, 2013, 3, 399-406.	19.5	127