

John R Tumbleston

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11894070/publications.pdf>

Version: 2024-02-01

43
papers

7,040
citations

212478

28
h-index

325983

40
g-index

44
all docs

44
docs citations

44
times ranked

9932
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical Behavior of As-Fabricated and UV-Cured Lattice Structures Printed Using the CLIP Technology. , 2017, , .		0
2	Single-Step Fabrication of Computationally Designed Microneedles by Continuous Liquid Interface Production. PLoS ONE, 2016, 11, e0162518.	1.1	162
3	Mechanical Response of Different Lattice Structures Fabricated Using the CLIP Technology. , 2016, , .		0
4	Layerless fabrication with continuous liquid interface production. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11703-11708.	3.3	228
5	Origins of polarization-dependent anisotropic X-ray scattering from organic thin films. Journal of Synchrotron Radiation, 2016, 23, 219-227.	1.0	26
6	Continuous liquid interface production of 3D objects. Science, 2015, 347, 1349-1352.	6.0	1,617
7	Importance of Domain Purity and Molecular Packing in Efficient Solution-Processed Small-Molecule Solar Cells. Advanced Materials, 2015, 27, 1105-1111.	11.1	160
8	Topographic measurement of buried thin-film interfaces using a grazing resonant soft x-ray scattering technique. Physical Review B, 2014, 90, .	1.1	15
9	Controlling Molecular Weight of a High Efficiency Donor-Acceptor Conjugated Polymer and Understanding Its Significant Impact on Photovoltaic Properties. Advanced Materials, 2014, 26, 4456-4462.	11.1	190
10	The influence of molecular orientation on organic bulk heterojunction solar cells. Nature Photonics, 2014, 8, 385-391.	15.6	439
11	Quantification of Nano- and Mesoscale Phase Separation and Relation to Donor and Acceptor Quantum Efficiency, J_{sc} , and FF in Polymer:Fullerene Solar Cells. Advanced Materials, 2014, 26, 4234-4241.	11.1	127
12	Understanding the Morphology of PTB7:PCBM Blends in Organic Photovoltaics. Advanced Energy Materials, 2014, 4, 1301377.	10.2	203
13	On the Efficiency of Charge Transfer State Splitting in Polymer:Fullerene Solar Cells. Advanced Materials, 2014, 26, 2533-2539.	11.1	106
14	Organic Solar Cells: On the Efficiency of Charge Transfer State Splitting in Polymer:Fullerene Solar Cells (Adv. Mater. 16/2014). Advanced Materials, 2014, 26, 2607-2607.	11.1	0
15	Photovoltaics: Quantification of Nano- and Mesoscale Phase Separation and Relation to Donor and Acceptor Quantum Efficiency, J_{sc} , and FF in Polymer:Fullerene Solar Cells (Adv.) Tj ETQq1 1 0.78#314 rgBT /Overl		
16	Mobility-Controlled Performance of Thick Solar Cells Based on Fluorinated Copolymers. Journal of the American Chemical Society, 2014, 136, 15566-15576.	6.6	249
17	Morphology linked to miscibility in highly amorphous semi-conducting polymer/fullerene blends. Polymer, 2014, 55, 4884-4889.	1.8	32
18	Quantifying Charge Extraction in Organic Solar Cells: The Case of Fluorinated PCPDTBT. Journal of Physical Chemistry Letters, 2014, 5, 1131-1138.	2.1	88

#	ARTICLE	IF	CITATIONS
19	On the role of intermixed phases in organic photovoltaic blends. Energy and Environmental Science, 2013, 6, 2756.	15.6	157
20	Organic Solar Cells: Domain Purity, Miscibility, and Molecular Orientation at Donor/Acceptor Interfaces in High Performance Organic Solar Cells: Paths to Further Improvement (Adv. Energy) Tj ETQq0 0 0 rgBT 10zlock 10 Tf 50 69	10.2	102
21	Modifications in Morphology Resulting from Nanoimprinting Bulk Heterojunction Blends for Light Trapping Organic Solar Cell Designs. ACS Applied Materials & Interfaces, 2013, 5, 8225-8230.	4.0	8
22	Fluorinated Polymer Yields High Organic Solar Cell Performance for a Wide Range of Morphologies. Advanced Functional Materials, 2013, 23, 3463-3470.	7.8	91
23	Absolute Measurement of Domain Composition and Nanoscale Size Distribution Explains Performance in PTB7:PC ₇₁ BM Solar Cells. Advanced Energy Materials, 2013, 3, 65-74.	10.2	605
24	Domain Purity, Miscibility, and Molecular Orientation at Donor/Acceptor Interfaces in High Performance Organic Solar Cells: Paths to Further Improvement. Advanced Energy Materials, 2013, 3, 864-872.	10.2	283
25	Fluorine Substituents Reduce Charge Recombination and Drive Structure and Morphology Development in Polymer Solar Cells. Journal of the American Chemical Society, 2013, 135, 1806-1815.	6.6	528
26	The Importance of Fullerene Percolation in the Mixed Regions of Polymer/Fullerene Bulk Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 364-374.	10.2	412
27	Disentangling the impact of side chains and fluorine substituents of conjugated donor polymers on the performance of photovoltaic blends. Energy and Environmental Science, 2013, 6, 316-326.	15.6	153
28	Synthesis, solid-state, and charge-transport properties of conjugated polythiophene dioxides. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 48-56.	2.4	22
29	Large area nanofabrication of butterfly wing's three dimensional ultrastructures. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, .	0.6	35
30	Interplay between Bimolecular Recombination and Carrier Transport Distances in Bulk Heterojunction Organic Solar Cells. Advanced Energy Materials, 2012, 2, 477-486.	10.2	36
31	The role of solvent and morphology on miscibility of methanofullerene and poly(3-hexylthiophene). Thin Solid Films, 2012, 520, 5466-5471.	0.8	16
32	Minority carrier transport length of electrodeposited Cu ₂ O in ZnO/Cu ₂ O heterojunction solar cells. Applied Physics Letters, 2011, 98, .	1.5	64
33	Biomimetic microlens array with antireflective moth-eye surface. Soft Matter, 2011, 7, 6404.	1.2	127
34	Miscibility, Crystallinity, and Phase Development in P3HT/PCBM Solar Cells: Toward an Enlightened Understanding of Device Morphology and Stability. Journal of Physical Chemistry Letters, 2011, 2, 3135-3145.	2.1	301
35	Light-trapping nano-structures in organic photovoltaic cells. Journal of Materials Chemistry, 2011, 21, 16293.	6.7	88
36	Photonic Crystal Geometry for Organic Polymer:Fullerene Standard and Inverted Solar Cells. Journal of Physical Chemistry C, 2011, 115, 4247-4254.	1.5	28

#	ARTICLE	IF	CITATIONS
37	Electro-optical model of photonic crystal bulk heterojunction organic solar cells. , 2010, , .		0
38	Suppression of bimolecular recombination by UV-sensitive electron transport layers in organic solar cells. Journal of Applied Physics, 2010, 108, 083101.	1.1	7
39	Nonideal parasitic resistance effects in bulk heterojunction organic solar cells. Journal of Applied Physics, 2010, 108, 084514.	1.1	25
40	Analyzing local exciton generation profiles as a means to extract transport lengths in organic solar cells. Physical Review B, 2010, 82, .	1.1	16
41	Electrophotonic enhancement of bulk heterojunction organic solar cells through photonic crystal photoactive layer. Applied Physics Letters, 2009, 94, .	1.5	73
42	Photonic Crystal Geometry for Organic Solar Cells. Nano Letters, 2009, 9, 2742-2746.	4.5	221
43	Absorption and quasiguide mode analysis of organic solar cells with photonic crystal photoactive layers. Optics Express, 2009, 17, 7670.	1.7	93