

Adam D Printz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

2,182
citations

21
h-index

37
g-index

37
ext. papers

2,499
ext. citations

12.4
avg, IF

5.11
L-index

#	Paper	IF	Citations
35	Residual Film Stresses in Perovskite Solar Cells: Origins, Effects, and Mitigation Strategies. <i>ACS Omega</i> , 2021 , 6, 30214-30223	3.9	5
34	Synergistic effect of carotenoid and silicone-based additives for photooxidatively stable organic solar cells with enhanced elasticity. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11838-11850	7.1	2
33	Performance and stability improvements in metal halide perovskite with intralayer incorporation of organic additives. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16281-16338	13	9
32	Self-aligned concentrating immersion-lens arrays for patterning and efficiency recovery in scaffold-reinforced perovskite solar cells. <i>Applied Materials Today</i> , 2020 , 20, 100704	6.6	1
31	Perspectives on intrinsic toughening strategies and passivation of perovskite films with organic additives. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 209, 110433	6.4	11
30	Poly(triarylamine) composites with carbon nanomaterials for highly transparent and conductive coatings. <i>Thin Solid Films</i> , 2018 , 646, 61-66	2.2	6
29	Effect of Cation Composition on the Mechanical Stability of Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1702116	21.8	84
28	Engineering Stress in Perovskite Solar Cells to Improve Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1802139	21.8	148
27	Effect of heat, UV radiation, and moisture on the decohesion kinetics of inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 170, 239-245	6.4	8
26	Mechanical Properties of Organic Semiconductors for Stretchable, Highly Flexible, and Mechanically Robust Electronics. <i>Chemical Reviews</i> , 2017 , 117, 6467-6499	68.1	430
25	Measuring the Glass Transition Temperature of Conjugated Polymer Films with Ultraviolet-Visible Spectroscopy. <i>Chemistry of Materials</i> , 2017 , 29, 2646-2654	9.6	47
24	Improved stability and efficiency of perovskite solar cells with submicron flexible barrier films deposited in air. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22975-22983	13	29
23	Scaffold-reinforced perovskite compound solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 2500-2508	35.4	50
22	Efficient Characterization of Bulk Heterojunction Films by Mapping Gradients by Reversible Contact with Liquid Metal Top Electrodes. <i>Chemistry of Materials</i> , 2017 , 29, 389-398	9.6	9
21	Fatigue in organic semiconductors: Spectroscopic evolution of microstructure due to cyclic loading in poly(3-heptylthiophene). <i>Synthetic Metals</i> , 2016 , 217, 144-151	3.6	11
20	Metallic Nanoislands on Graphene as Highly Sensitive Transducers of Mechanical, Biological, and Optical Signals. <i>Nano Letters</i> , 2016 , 16, 1375-80	11.5	52
19	Wearable organic solar cells with high cyclic bending stability: Materials selection criteria. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 438-444	6.4	93

18	Competition between deformability and charge transport in semiconducting polymers for flexible and stretchable electronics. <i>Applied Physics Reviews</i> , 2016 , 3, 021302	17.3	69
17	Large increase in stretchability of organic electronic materials by encapsulation. <i>Extreme Mechanics Letters</i> , 2016 , 8, 78-87	3.9	19
16	Plasticization of PEDOT:PSS by Common Additives for Mechanically Robust Organic Solar Cells and Wearable Sensors. <i>Advanced Functional Materials</i> , 2015 , 25, 427-436	15.6	234
15	Viability of stretchable poly(3-heptylthiophene) (P3HpT) for organic solar cells and field-effect transistors. <i>Synthetic Metals</i> , 2015 , 203, 208-214	3.6	67
14	Toward organic electronics with properties inspired by biological tissue. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4947-4952	7.3	35
13	Asymmetric Colloidal Janus Particle Formation Is Core-Size-Dependent. <i>Langmuir</i> , 2015 , 31, 9148-54	4	10
12	Role of molecular mixing on the stiffness of polymer:fullerene bulk heterojunction films. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 134, 64-72	6.4	18
11	Mechanical degradation and stability of organic solar cells: molecular and microstructural determinants. <i>Energy and Environmental Science</i> , 2015 , 8, 55-80	35.4	172
10	[70]PCBM and Incompletely Separated Grades of Methanofullerenes Produce Bulk Heterojunctions with Increased Robustness for Ultra-Flexible and Stretchable Electronics. <i>Chemistry of Materials</i> , 2015 , 27, 3902-3911	9.6	45
9	Yield Point of Semiconducting Polymer Films on Stretchable Substrates Determined by Onset of Buckling. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23257-64	9.5	49
8	Metal-assisted exfoliation (MAE): green, roll-to-roll compatible method for transferring graphene to flexible substrates. <i>Nanotechnology</i> , 2015 , 26, 045301	3.4	30
7	Molecularly Stretchable Electronics. <i>Chemistry of Materials</i> , 2014 , 26, 3028-3041	9.6	157
6	Stretching and conformational bonding of organic solar cells to hemispherical surfaces. <i>Energy and Environmental Science</i> , 2014 , 7, 370-378	35.4	56
5	Increased elasticity of a low-bandgap conjugated copolymer by random segmentation for mechanically robust solar cells. <i>RSC Advances</i> , 2014 , 4, 13635-13643	3.7	67
4	Designing hollow nano gold golf balls. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9937-41	9.5	31
3	Best of Both Worlds: Conjugated Polymers Exhibiting Good Photovoltaic Behavior and High Tensile Elasticity. <i>Macromolecules</i> , 2014 , 47, 1981-1992	5.5	121
2	Toward intrinsically stretchable organic semiconductors: mechanical properties of high-performance conjugated polymers 2014 ,		1
1	Photoresist-free patterning by mechanical abrasion of water-soluble lift-off resists and bare substrates: toward green fabrication of transparent electrodes. <i>PLoS ONE</i> , 2013 , 8, e83939	3.7	6

