

Morten Madsen

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,461
citations

331259

21
h-index

205818

48
g-index

83
all docs

83
docs citations

83
times ranked

4180
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency-Enhanced Scalable Organic Photovoltaics Using Roll-to-Roll Nanoimprint Lithography. ChemSusChem, 2022, 15, .	3.6	2
2	Additive-Assisted Stabilization Against Photooxidation of Organic and Hybrid Solar Cells. , 2022, , 169-193.		0
3	Influence of solvent additive on the performance and aging behavior of non-fullerene organic solar cells. Solar Energy, 2022, 232, 120-127.	2.9	9
4	2D materials for organic and perovskite photovoltaics. Nano Energy, 2022, 94, 106833.	8.2	20
5	Unveiling the Energy Alignment across Ultrathin 4P-NPD Hole Extraction Interlayers in Organic Solar Cells. ACS Applied Energy Materials, 2022, 5, 5018-5025.	2.5	4
6	Efficiency-Enhanced Scalable Organic Photovoltaics Using Roll-to-Roll Nanoimprint Lithography. ChemSusChem, 2022, 15, e202102617.	3.6	1
7	Synergistic effect of carotenoid and silicone-based additives for photooxidatively stable organic solar cells with enhanced elasticity. Journal of Materials Chemistry C, 2021, 9, 11838-11850.	2.7	7
8	Progress of hybrid nanocomposite materials for thermoelectric applications. Materials Advances, 2021, 2, 1927-1956.	2.6	22
9	Deciphering Electron Interplay at the Fullerene/Sputtered TiO ₂ Interface: A Barrier-Free Electron Extraction for Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 19460-19466.	4.0	10
10	Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 6562-6573.	2.5	11
11	Near-Infrared to Visible Photon Upconversion by Palladium(II) Octabutoxyphthalocyanine and Rubrene in the Solid State. Journal of Physical Chemistry C, 2021, 125, 25643-25650.	1.5	8
12	Improving the efficiency of upconversion by light concentration using nanoparticle design. Journal Physics D: Applied Physics, 2020, 53, 073001.	1.3	9
13	Oxygen-dependent photophysics and photochemistry of prototypical compounds for organic photovoltaics: inhibiting degradation initiated by singlet oxygen at a molecular level. Methods and Applications in Fluorescence, 2020, 8, 014001.	1.1	22
14	Sputter-Deposited Titanium Oxide Layers as Efficient Electron Selective Contacts in Organic Photovoltaic Devices. ACS Applied Energy Materials, 2020, 3, 253-259.	2.5	12
15	Dibenzo-tetraphenyl diindeno perylene as hole transport layer for high-bandgap perovskite solar cells. Emergent Materials, 2020, 3, 109-116.	3.2	6
16	Identification of Degradation Mechanisms in Slot-Die-Coated Nonfullerene ITO-Free Organic Solar Cells Using Different Illumination Spectra. ACS Applied Energy Materials, 2020, 3, 6476-6485.	2.5	7
17	Degradation Behavior of Scalable Nonfullerene Organic Solar Cells Assessed by Outdoor and Indoor ISOS Stability Protocols. Energy Technology, 2020, 8, 2000295.	1.8	19
18	Recent advances in fiber-shaped and planar-shaped textile solar cells. Nano Energy, 2020, 71, 104609.	8.2	73

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19	Electrospun ZnO nanofiber interlayers for enhanced performance of organic photovoltaic devices. <i>Solar Energy</i> , 2020, 197, 311-316.	2.9	23
20	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , 2020, 5, 35-49.	19.8	797
21	Photo-induced and electrical degradation of organic field-effect transistors. <i>Organic Electronics</i> , 2020, 82, 105717.	1.4	7
22	Peculiarities of perovskite photovoltaics degradation and how to account for them in stability studies. , 2020, , .		2
23	Planar Perovskite Solar Cells Using Fullerene C70 as Electron Selective Transport Layer. <i>International Journal of Optics and Photonics</i> , 2020, 14, 15-24.	0.2	0
24	Inverted organic solar cells with non-clustering bathocuproine (BCP) cathode interlayers obtained by fullerene doping. <i>Scientific Reports</i> , 2019, 9, 10422.	1.6	15
25	Biomimetic Approach to Inhibition of Photooxidation in Organic Solar Cells Using Beta-Carotene as an Additive. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41570-41579.	4.0	34
26	Slot-die processing and encapsulation of non-fullerene based ITO-free organic solar cells and modules. <i>Flexible and Printed Electronics</i> , 2019, 4, 045004.	1.5	33
27	Degradation pathways in standard and inverted DBP-C70 based organic solar cells. <i>Scientific Reports</i> , 2019, 9, 4024.	1.6	20
28	Crystalline Molybdenum Oxide Layers as Efficient and Stable Hole Contacts in Organic Photovoltaic Devices. <i>ACS Applied Energy Materials</i> , 2019, 2, 420-427.	2.5	26
29	Inhibiting Photo-oxidative Degradation in Organic Solar Cells using Stabilizing Additives. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2019, , 367-421.	0.1	0
30	World Scientific Reference of Hybrid Materials. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2019, , .	0.1	1
31	A soft lithographic approach to fabricate InAs nanowire field-effect transistors. <i>Scientific Reports</i> , 2018, 8, 3204.	1.6	6
32	Reconsidering figures of merit for performance and stability of perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2018, 11, 739-743.	15.6	79
33	Dynamics of Photoinduced Degradation of Perovskite Photovoltaics: From Reversible to Irreversible Processes. <i>ACS Applied Energy Materials</i> , 2018, 1, 799-806.	2.5	85
34	Numerical analysis on effects of experimental Ga grading on Cu(In,Ga)Se ₂ solar cell performance. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 190-196.	1.9	19
35	Photo-induced degradation mechanisms in 4P-NPD thin films. <i>Organic Electronics</i> , 2018, 63, 114-119.	1.4	4
36	Improving the efficiency of solar cells by upconverting sunlight using field enhancement from optimized nano structures. <i>Optical Materials</i> , 2018, 83, 279-289.	1.7	21

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37	Stability of organic solar cells with PCDTBT donor polymer: An interlaboratory study. <i>Journal of Materials Research</i> , 2018, 33, 1909-1924.	1.2	17
38	Benzothiadiazole-triphenylamine as an efficient exciton blocking layer in small molecule based organic solar cells. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2296-2302.	2.5	8
39	Modeling Multijunction Solar Cells by Nonlocal Tunneling and Subcell Analysis. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1363-1369.	1.5	23
40	Area dependent behavior of bathocuproine (BCP) as cathode interfacial layers in organic photovoltaic cells. <i>Scientific Reports</i> , 2018, 8, 12608.	1.6	18
41	Crystalline Molybdenum Oxide Thin-Films for Application as Interfacial Layers in Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7717-7724.	4.0	44
42	Work function mapping of MoOx thin-films for application in electronic devices. <i>Ultramicroscopy</i> , 2017, 183, 99-103.	0.8	15
43	Cu(II) and Zn(II) based phthalocyanines as hole selective layers for perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2017, 1, 2071-2077.	2.5	35
44	ITO with embedded silver grids as transparent conductive electrodes for large area organic solar cells. <i>Nanotechnology</i> , 2017, 28, 405303.	1.3	10
45	Current Matching in Multifold DBP/C70 Organic Solar Cells With Open-Circuit Voltages of up to 6.44 V. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 1319-1323.	1.5	13
46	The influence of electrical effects on device performance of organic solar cells with nano-structured electrodes. <i>Scientific Reports</i> , 2017, 7, 5300.	1.6	26
47	4P-NPD ultra-thin films as efficient exciton blocking layers in DBP/C ₇₀ based organic solar cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 385101.	1.3	21
48	Enhanced Absorption in Organic Thin-Films from Imprinted Concave Nanostructures. <i>Medziagotyra</i> , 2017, 23, .	0.1	0
49	Periodically arranged colloidal gold nanoparticles for enhanced light harvesting in organic solar cells. , 2016, , .		3
50	Nanoscale aluminum concaves for light-trapping in organic thin-films. <i>Optics Communications</i> , 2016, 370, 135-139.	1.0	4
51	Long-term stabilization of organic solar cells using UV absorbers. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 125604.	1.3	23
52	Long-term stabilization of organic solar cells using hydroperoxide decomposers as additives. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	23
53	Tuning the optoelectronic properties of amorphous MoOx films by reactive sputtering. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	35
54	Role of the Charge-Transfer State in Reduced Langevin Recombination in Organic Solar Cells: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26588-26597.	1.5	38

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55	Nanoscale concave structures for field enhancement in organic thin films. , 2015, , .		0
56	Crystallites of β -Sexithiophene in Bilayer Small Molecule Organic Solar Cells Double Efficiency. Journal of Nanomaterials, 2014, 2014, 1-6.	1.5	3
57	Growth of β -sexithiophene nanostructures on C60 thin film layers. Thin Solid Films, 2014, 558, 165-169.	0.8	5
58	Flexible organic solar cells including efficiency enhancing grating structures. Nanotechnology, 2013, 24, 145301.	1.3	21
59	Flexible PCPDTBT:PCBM solar cells with integrated grating structures. Proceedings of SPIE, 2013, , .	0.8	0
60	AC-driven light emission from in situ grown organic nanofibers. , 2012, , .		1
61	Nanoscale InGaSb Heterostructure Membranes on Si Substrates for High Hole Mobility Transistors. Nano Letters, 2012, 12, 2060-2066.	4.5	85
62	Efficiency enhancement of ITO-free organic polymeric solar cells by light trapping. Proceedings of SPIE, 2012, , .	0.8	0
63	In situ "Directed Growth of Organic Nanofibers and Nanoflakes: Electrical and Morphological Properties. Nanoscale Research Letters, 2011, 6, 11.	3.1	15
64	Ultra-thin compound semiconductor on insulator (XOI) for MOSFETs and TFETs. , 2011, , .		1
65	Quantum Confinement Effects in Nanoscale-Thickness InAs Membranes. Nano Letters, 2011, 11, 5008-5012.	4.5	97
66	Nanoscale Semiconductor "on Substrate " Processes, Devices, and Applications. Advanced Materials, 2011, 23, 3115-3127.	11.1	42
67	Strain engineering of epitaxially transferred, ultrathin layers of III-V semiconductor on insulator. Applied Physics Letters, 2011, 98, 012111.	1.5	23
68	Electrical properties of in-situ grown and transferred organic nanofibers. Proceedings of SPIE, 2010, , .	0.8	0
69	Ultrathin compound semiconductor on insulator layers for high-performance nanoscale transistors. Nature, 2010, 468, 286-289.	13.7	373
70	Controlled growth of organic nanofibers on nano- and micro-structured gold surfaces. Proceedings of SPIE, 2009, , .	0.8	1
71	The surface microstructure controlled growth of organic nanofibres. Nanotechnology, 2009, 20, 115601.	1.3	7
72	Para-hexaphenyl nanofiber growth on Au-coated porous alumina templates. Applied Physics A: Materials Science and Processing, 2009, 96, 591-594.	1.1	1

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73	Periodic structures modified with silver nanoparticles for novel plasmonic application. Proceedings of SPIE, 2008, , .	0.8	2
74	Light scattering from an ordered array of needle-shaped organic nanoaggregates: Evidence for optical mode launching. Applied Physics Letters, 2008, 92, 073302.	1.5	4
75	Bottom-up tailoring of photonic nanofibers. Proceedings of SPIE, 2008, , .	0.8	1
76	Organic nanofiber nanosensors. Proceedings of SPIE, 2007, , .	0.8	2
77	Printed second harmonic active organic nanofiber arrays. Proceedings of SPIE, 2007, , .	0.8	2
78	UV-laser Treatment in the Nanodomain: Forming of Organic Nanofibers. Journal of Laser Micro Nanoengineering, 2006, 1, 275-280.	0.4	1