

# Kristofer Tvingstedt

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

7,802  
citations

87888

38  
h-index

138484

58  
g-index

67  
all docs

67  
docs citations

67  
times ranked

8386  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assigning ionic properties in perovskite solar cells; a unifying transient simulation/experimental study. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3578-3587.	4.9	6
2	Influence of crystallisation on the structural and optical properties of lead-free Cs <sub>2</sub> AgBiBr <sub>6</sub> perovskite crystals. <i>CrystEngComm</i> , 2021, 23, 6848-6854.	2.6	4
3	Band gap engineering in blended organic semiconductor films based on dielectric interactions. <i>Nature Materials</i> , 2021, 20, 1407-1413.	27.5	17
4	Reduced Recombination Losses in Evaporated Perovskite Solar Cells by Postfabrication Treatment. <i>Solar Rrl</i> , 2021, 5, 2100400.	5.8	5
5	Optoelectronic Properties of Cs <sub>2</sub> AgBiBr <sub>6</sub> Thin Films: The Influence of Precursor Stoichiometry. <i>ACS Applied Energy Materials</i> , 2020, 3, 11597-11609.	5.1	27
6	Temperature dependence of the spectral line-width of charge-transfer state emission in organic solar cells; static vs. dynamic disorder. <i>Materials Horizons</i> , 2020, 7, 1888-1900.	12.2	23
7	On the absence of triplet exciton loss pathways in non-fullerene acceptor based organic solar cells. <i>Materials Horizons</i> , 2020, 7, 1641-1649.	12.2	24
8	Efficient Solution Processed CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells with PolyTPD Hole Transport Layer. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2019, 74, 665-672.	1.5	9
9	Theoretical Perspective on Transient Photovoltage and Charge Extraction Techniques. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14261-14271.	3.1	49
10	Unravelling steady-state bulk recombination dynamics in thick efficient vacuum-deposited perovskite solar cells by transient methods. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14712-14722.	10.3	31
11	How far does the defect tolerance of lead-halide perovskites range? The example of Bi impurities introducing efficient recombination centers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23838-23853.	10.3	57
12	Emissive and charge-generating donor-acceptor interfaces for organic optoelectronics with low voltage losses. <i>Nature Materials</i> , 2019, 18, 459-464.	27.5	131
13	Effects of Masking on Open-Circuit Voltage and Fill Factor in Solar Cells. <i>Joule</i> , 2019, 3, 16-26.	24.0	64
14	Understanding the Role of Cesium and Rubidium Additives in Perovskite Solar Cells: Trap States, Charge Transport, and Recombination. <i>Advanced Energy Materials</i> , 2018, 8, 1703057.	19.5	184
15	Revisiting lifetimes from transient electrical characterization of thin film solar cells; a capacitive concern evaluated for silicon, organic and perovskite devices. <i>Energy and Environmental Science</i> , 2018, 11, 629-640.	30.8	89
16	Removing Leakage and Surface Recombination in Planar Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 424-430.	17.4	117
17	Intrinsic non-radiative voltage losses in fullerene-based organic solar cells. <i>Nature Energy</i> , 2017, 2, .	39.5	494
18	Triplet Excitons in Highly Efficient Solar Cells Based on the Soluble Small Molecule p-EDTS(FBTTh <sub>2</sub> ) <sub>2</sub> . <i>Advanced Energy Materials</i> , 2017, 7, 1602016.	19.5	15

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19	Direct Observation of Spin States Involved in Organic Electroluminescence Based on Thermally Activated Delayed Fluorescence. <i>Advanced Optical Materials</i> , 2017, 5, 1600926.	7.3	11
20	Impact of Interfaces and Laser Repetition Rate on Photocarrier Dynamics in Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4698-4703.	4.6	13
21	Temperature Dependence of Ideality Factors in Organic Solar Cells and the Relation to Radiative Efficiency. <i>Advanced Energy Materials</i> , 2016, 6, 1502230.	19.5	99
22	Improved charge carrier lifetime in planar perovskite solar cells by bromine doping. <i>Scientific Reports</i> , 2016, 6, 39333.	3.3	113
23	Identification of Trap States in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2350-2354.	4.6	204
24	Persistent photovoltage in methylammonium lead iodide perovskite solar cells. <i>APL Materials</i> , 2014, 2, .	5.1	86
25	Radiative efficiency of lead iodide based perovskite solar cells. <i>Scientific Reports</i> , 2014, 4, 6071.	3.3	283
26	In situ reflectance imaging of organic thin film formation from solution deposition. <i>Solar Energy Materials and Solar Cells</i> , 2013, 114, 89-98.	6.2	21
27	Light trapping with total internal reflection and transparent electrodes in organic photovoltaic devices. <i>Applied Physics Letters</i> , 2012, 101, 163902.	3.3	21
28	Polarization anisotropy of charge transfer absorption and emission of aligned polymer:fullerene blend films. <i>Physical Review B</i> , 2012, 86, .	3.2	28
29	Quantification of Quantum Efficiency and Energy Losses in Low Bandgap Polymer:Fullerene Solar Cells with High Open-Circuit Voltage. <i>Advanced Functional Materials</i> , 2012, 22, 3480-3490.	14.9	190
30	Semi-transparent Tandem Organic Solar Cells with 90% Internal Quantum Efficiency. <i>Advanced Energy Materials</i> , 2012, 2, 1467-1476.	19.5	109
31	Interlayer for Modified Cathode in Highly Efficient Inverted ITO-free Organic Solar Cells. <i>Advanced Materials</i> , 2012, 24, 554-558.	21.0	101
32	Phase behaviour of liquid-crystalline polymer/fullerene organic photovoltaic blends: thermal stability and miscibility. <i>Journal of Materials Chemistry</i> , 2011, 21, 10676.	6.7	80
33	Charge Transfer States in Organic Donor-Acceptor Solar Cells. <i>Semiconductors and Semimetals</i> , 2011, 85, 261-295.	0.7	18
34	Consensus stability testing protocols for organic photovoltaic materials and devices. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1253-1267.	6.2	812
35	The Effect of additive on performance and shelf-stability of HSX-1/PCBM photovoltaic devices. <i>Organic Electronics</i> , 2011, 12, 1544-1551.	2.6	58
36	Charge-Transfer States and Upper Limit of the Open-Circuit Voltage in Polymer:Fullerene Organic Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1676-1684.	2.9	71

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37	Influence of Molecular Weight on the Performance of Organic Solar Cells Based on a Fluorene Derivative. <i>Advanced Functional Materials</i> , 2010, 20, 2124-2131.	14.9	124
38	Bipolar Charge Transport in Fullerene Molecules in a Bilayer and Blend of Polyfluorene Copolymer and Fullerene. <i>Advanced Materials</i> , 2010, 22, 1008-1011.	21.0	16
39	Polymer Photovoltaics with Alternating Copolymer/Fullerene Blends and Novel Device Architectures. <i>Advanced Materials</i> , 2010, 22, E100-16.	21.0	100
40	Relating the open-circuit voltage to interface molecular properties of donor:acceptor bulk heterojunction solar cells. <i>Physical Review B</i> , 2010, 81, .	3.2	750
41	On the Dissociation Efficiency of Charge Transfer Excitons and Frenkel Excitons in Organic Solar Cells: A Luminescence Quenching Study. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21824-21832.	3.1	122
42	Observation of a Charge Transfer State in Low Bandgap Polymer/Fullerene Blend Systems by Photoluminescence and Electroluminescence Studies. <i>Advanced Functional Materials</i> , 2009, 19, 3293-3299.	14.9	71
43	A round robin study of flexible large-area roll-to-roll processed polymer solar cell modules. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1968-1977.	6.2	205
44	On the origin of the open-circuit voltage of polymer/fullerene solar cells. <i>Nature Materials</i> , 2009, 8, 904-909.	27.5	1,101
45	Fabrication of a light trapping system for organic solar cells. <i>Microelectronic Engineering</i> , 2009, 86, 1150-1154.	2.4	39
46	Electroluminescence from Charge Transfer States in Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 11819-11824.	13.7	338
47	Bridging Dimensions in Organic Electronics: Assembly of Electroactive Polymer Nanodevices from Fluids. <i>Nano Letters</i> , 2009, 9, 631-635.	9.1	15
48	High photovoltage achieved in low band gap polymer solar cells by adjusting energy levels of a polymer with the LUMOs of fullerene derivatives. <i>Journal of Materials Chemistry</i> , 2008, 18, 5468.	6.7	137
49	Trapping light with micro lenses in thin film organic photovoltaic cells. <i>Optics Express</i> , 2008, 16, 21608.	3.4	145
50	Investigation on polymer anode design for flexible polymer solar cells. <i>Applied Physics Letters</i> , 2008, 92, 233308.	3.3	142
51	Optical modeling of a folded organic solar cell. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	55
52	Multifolded polymer solar cells on flexible substrates. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	67
53	Surface plasmon increase absorption in polymer photovoltaic cells. <i>Applied Physics Letters</i> , 2007, 91, 113514.	3.3	188
54	Folded reflective tandem polymer solar cell doubles efficiency. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	124

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55	Electrode Grids for ITO Free Organic Photovoltaic Devices. <i>Advanced Materials</i> , 2007, 19, 2893-2897.	21.0	265
56	Transparent polymer cathode for organic photovoltaic devices. <i>Synthetic Metals</i> , 2006, 156, 1102-1107.	3.9	76
57	Light confinement in thin film organic photovoltaic cells. , 2006, , .		7
58	Single- and bilayer submicron arrays of fluorescent polymer on conducting polymer surface with surface energy controlled dewetting. <i>Nanotechnology</i> , 2005, 16, 437-443.	2.6	26
59	Doping Profile in Planar Hybrid Perovskite Solar Cells Identifying Mobile Ions. <i>ACS Applied Energy Materials</i> , 0, , .	5.1	19
60	Transient driftâ€diffusion simulation of the open circuit voltage decay in ionic perovskite solar cells. , 0, , .		0
61	Understanding the Role of Cesium and Rubidium Additives in Perovskite Solar Cells: Trap States and Charge Carrier Mobility. , 0, , .		1
62	Doping profile in planar perovskite solar cells. , 0, , .		0
63	On the assignment of carrier lifetimes in high absorption coefficient thin film solar cells via electrical transient methods. , 0, , .		0
64	Impact of interfaces and active layer thickness on the assignment of charge carrier recombination dynamics in thin film solar cells.. , 0, , .		0
65	A Theoretical Perspective on Transient Photovoltage and Charge Extraction Techniques. , 0, , .		0
66	A Theoretical Perspective on Transient Photovoltage and Charge Extraction Techniques. , 0, , .		0