

Elizabeth von Hauff

List of Publications by Citations

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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.

82
papers

2,769
citations

27
h-index

51
g-index

87
ext. papers

3,258
ext. citations

7.7
avg, IF

5.52
L-index

#	Paper	IF	Citations
82	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , 2020 , 5, 35-49	62.3	369
81	Diphenylmethanofullerenes: New and Efficient Acceptors in Bulk-Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2005 , 15, 1979-1987	15.6	144
80	Degradation Effects Related to the Hole Transport Layer in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2011 , 21, 2705-2711	15.6	137
79	Impedance Spectroscopy for Emerging Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11329-11346	13.46	134
78	Structural correlations in the generation of polaron pairs in low-bandgap polymers for photovoltaics. <i>Nature Communications</i> , 2012 , 3, 970	17.4	128
77	Impact of the incorporation of Au nanoparticles into polymer/fullerene solar cells. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 3981-9	2.8	123
76	Charge Transfer Excitons in Polymer/Fullerene Blends: The Role of Morphology and Polymer Chain Conformation. <i>Advanced Functional Materials</i> , 2009 , 19, 3662-3668	15.6	109
75	Procedures and Practices for Evaluating Thin-Film Solar Cell Stability. <i>Advanced Energy Materials</i> , 2015 , 5, 1501407	21.8	104
74	Study of field effect mobility in PCBM films and P3HT:PCBM blends. <i>Solar Energy Materials and Solar Cells</i> , 2005 , 87, 149-156	6.4	104
73	Understanding S-Shaped Current-Voltage Characteristics in Organic Solar Cells Containing a TiO _x Interlayer with Impedance Spectroscopy and Equivalent Circuit Analysis. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16333-16337	3.8	100
72	How intermolecular geometrical disorder affects the molecular doping of donor-acceptor copolymers. <i>Nature Communications</i> , 2015 , 6, 6460	17.4	85
71	Plasmon-Enhanced Photocurrent of Photosynthetic Pigment Proteins on Nanoporous Silver. <i>Advanced Functional Materials</i> , 2016 , 26, 285-292	15.6	76
70	Molecular doping of low-bandgap-polymer:fullerene solar cells: Effects on transport and solar cells. <i>Organic Electronics</i> , 2012 , 13, 290-296	3.5	69
69	Reduced charge transfer exciton recombination in organic semiconductor heterojunctions by molecular doping. <i>Physical Review Letters</i> , 2011 , 107, 127402	7.4	68
68	Challenges and perspectives in continuous glucose monitoring. <i>Chemical Communications</i> , 2018 , 54, 5033-5045	5.67	67
67	Influence of Thermal Annealing on PCDTBT:PCBM Composition Profiles. <i>Advanced Energy Materials</i> , 2014 , 4, 1300981	21.8	47
66	Interpreting the Density of States Extracted from Organic Solar Cells Using Transient Photocurrent Measurements. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12407-12414	3.8	45

65	Correlation between charge transfer exciton recombination and photocurrent in polymer/fullerene solar cells. <i>Applied Physics Letters</i> , 2010 , 97, 023301	3.4	45
64	The Effect of Ageing on Exciton Dynamics, Charge Separation, and Recombination in P3HT/PCBM Photovoltaic Blends. <i>Advanced Functional Materials</i> , 2012 , 22, 1461-1469	15.6	41
63	Investigations of the effects of tempering and composition dependence on charge carrier field effect mobilities in polymer and fullerene films and blends. <i>Journal of Applied Physics</i> , 2006 , 100, 043702	2.5	39
62	ITO-free inverted polymer solar cells with ZnO:Al cathodes and stable top anodes. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 52-56	6.4	36
61	Field effect measurements on charge carrier mobilities in various polymer-fullerene blend compositions. <i>Thin Solid Films</i> , 2006 , 511-512, 506-511	2.2	35
60	Solvent additives for tuning the photovoltaic properties of polymer/fullerene solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3536-3542	6.4	34
59	High-Permittivity Conjugated Polyelectrolyte Interlayers for High-Performance Bulk Heterojunction Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6309-14	9.5	31
58	Imaging of morphological changes and phase segregation in doped polymeric semiconductors. <i>Synthetic Metals</i> , 2015 , 199, 381-387	3.6	30
57	ITO-free inverted polymer/fullerene solar cells: Interface effects and comparison of different semi-transparent front contacts. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 96, 141-147	6.4	29
56	Influence of hole extraction efficiency on the performance and stability of organic solar Cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 116, 176-181	6.4	27
55	Loss Mechanisms in High Efficiency Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1501742	21.8	27
54	Increasing organic solar cell efficiency with polymer interlayers. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 764-9	3.6	26
53	Current-limiting mechanisms in polymer diodes. <i>Journal of Applied Physics</i> , 2006 , 99, 024506	2.5	26
52	Combination of Highly Efficient Electrocatalytic Water Oxidation with Selective Oxygenation of Organic Substrates using Manganese Borophosphates. <i>Advanced Materials</i> , 2021 , 33, e2004098	24	25
51	Extraordinary Interfacial Stitching between Single All-Inorganic Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5984-5991	9.5	22
50	Polymer/cathode interface barrier limiting the open circuit voltage in polymer:fullerene organic bulk heterojunction solar cells: A quantitative analysis. <i>Applied Physics Letters</i> , 2014 , 104, 043308	3.4	20
49	Spectral signatures of polarons in conjugated co-polymers. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4454-60	3.4	20
48	N-rB Ladder Polymers Prepared by Postfunctionalization: Tuning of Electron Affinity and Evaluation as Acceptors in All-Polymer Solar Cells. <i>Macromolecules</i> , 2019 , 52, 1013-1024	5.5	19

47	Charge Redistribution and Extraction in Photocatalytically Synthesized Au/ZnO Nanohybrids. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21704-21710	3.8	19
46	Detailed investigation of the conducting channel in poly(3-hexylthiophene) field effect transistors. <i>Journal of Applied Physics</i> , 2010 , 108, 063709	2.5	19
45	Air-Stable and Oriented Mixed Lead Halide Perovskite (FA/MA) by the One-Step Deposition Method Using Zinc Iodide and an Alkylammonium Additive. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17535-17562	8.5	16
44	Pitfalls and prospects of optical spectroscopy to characterize perovskite-transport layer interfaces. <i>Applied Physics Letters</i> , 2020 , 116, 100501	3.4	16
43	Biocompatible molecularly imprinted polymers for the voltage regulated uptake and release of L-glutamate in neutral pH solutions. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 596-601	11.8	16
42	Facile Preparation of Chloride-Conducting Membranes: First Step towards a Room-Temperature Solid-State Chloride-Ion Battery. <i>ChemistryOpen</i> , 2016 , 5, 525-530	2.3	14
41	Control of Surface Defects in ZnO Nanorod Arrays with Thermally Deposited Au Nanoparticles for Perovskite Photovoltaics. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3736-3748	6.1	13
40	Influence of molecular weight on the short-channel effect in polymer-based field-effect transistors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 117-124	2.6	12
39	Influence of different copolymer sequences in low band gap polymers on their performance in organic solar cells. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 1622-1635	2.5	12
38	Investigations of electron injection in a methanofullerene thin film transistor. <i>Journal of Applied Physics</i> , 2006 , 100, 073713	2.5	11
37	Relating Chain Conformation to the Density of States and Charge Transport in Conjugated Polymers: The Role of the π -phase in Poly(9,9-dioctylfluorene). <i>Physical Review X</i> , 2019 , 9,	9.1	10
36	Understanding the open circuit voltage in organic solar cells on the basis of a donor-acceptor abrupt (p-n++) heterojunction. <i>Solar Energy</i> , 2019 , 184, 610-619	6.8	10
35	The Effect of Electrostatic Interaction on n-Type Doping Efficiency of Fullerene Derivatives. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800959	6.4	10
34	Large area plasmonic nanoparticle arrays with well-defined size and shape. <i>Optical Materials Express</i> , 2014 , 4, 944	2.6	10
33	Binding and potential-triggered release of l-glutamate with molecularly imprinted polypyrrole in neutral pH solutions. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 327-332	8.5	10
32	Theory of Stark spectroscopy transients from thin film organic semiconducting devices. <i>Physical Review B</i> , 2014 , 89,	3.3	10
31	Impedance spectroscopy for perovskite solar cells: characterisation, analysis, and diagnosis. <i>Journal of Materials Chemistry C</i> ,	7.1	10
30	Stability of organic solar cells with PCDTBT donor polymer: An interlaboratory study. <i>Journal of Materials Research</i> , 2018 , 33, 1909-1924	2.5	9

29	Thiophene-based copolymers synthesized by electropolymerization for application as hole transport layer in organic solar cells. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 585-592	2.9	9
28	Thermally evaporated Ag nanoparticle films for plasmonic enhancement in organic solar cells: effects of particle geometry. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 161-165	2.5	8
27	Controlled Morphology of ZnO Nanorods for Electron Transport in Squaraine Bulk-Hetero Junction Solar Cells With Thick Active Layers. <i>Solar Rrl</i> , 2017 , 1, 1700132	7.1	8
26	Electrochemical synthesis of polypyrrole layers doped with glutamic ions. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 4051-4058	2.9	8
25	Interplay between Long-Range Crystal Order and Short-Range Molecular Interactions Tunes Carrier Mobility in Liquid Crystal Dyes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6228-6236	9.5	7
24	Toward n-type analogues to poly(3-alkylthiophene)s: influence of side-chain variation on bulk-morphology and electron transport characteristics of head-to-tail regioregular poly(4-alkylthiazole)s. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2587-2597	7.1	6
23	Trap-Induced Dispersive Transport and Dielectric Loss in PbS Nanoparticle Films. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231,	3.1	5
22	Silica Nanoparticles for Enhanced Carrier Transport in Polymer-Based Short Channel Transistors. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22613-22618	3.8	5
21	The Role of Molecular Structure and Conformation in Polymer Electronics. <i>Semiconductors and Semimetals</i> , 2011 , 231-260	0.6	5
20	Organic Photovoltaics: Where Are We Headed?. <i>Solar Rrl</i> , 2021 , 5, 2100167	7.1	5
19	Charge transfer excitons in a donor-acceptor amphidynamic crystal: the role of dipole orientational order. <i>Materials Horizons</i> , 2020 , 7, 2951-2958	14.4	4
18	Charge transport properties in electrically aged organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2013 , 113, 023104	2.5	3
17	Incident photon-to-current efficiency measurements as a helpful tool to analyze luminescence loss mechanisms in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 103, 043311	3.4	3
16	Binding and Release of Glutamate from Overoxidized Polypyrrole via an Applied Potential for Application as a Molecular Switch. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2008 , 63, 359-363	1.4	3
15	Optoelectronic Properties of PCPDTBT for Photovoltaics: Morphology Control and Molecular Doping. <i>Advances in Polymer Science</i> , 2017 , 109-138	1.3	2
14	All-conjugated donor-acceptor block copolymers featuring a pentafulvenyl-polyisocyanide-acceptor. <i>Polymer Chemistry</i> , 2020 , 11, 1852-1859	4.9	2
13	A Gated Four Probe Technique for Field Effect Measurements on Disordered Organic Semiconductors. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2008 , 63, 591-595 ^{1.4}	1.4	2
12	Self-dual bending theory for vesicles. <i>Nonlinearity</i> , 2004 , 17, 57-66	1.7	2

11	Dynamical theory for the battery's electromotive force. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 9428-9439	3.6	2
10	Voltage Regulated Uptake and Release of L-Glutamate from a Molecularly Selective Switch for Physiological Applications. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2009 , 64, 879-880	1.4	1
9	2D or not 2D: Eliminating interfacial losses in perovskite solar cells. <i>Chem</i> , 2021 , 7, 1694-1696	16.2	1
8	Simple One-Pot Syntheses and Characterizations of Free Fluoride- and Bifluoride-Containing Polymers Soluble in Non-Aqueous Solvents. <i>Materials</i> , 2016 , 9,	3.5	1
7	Bioelectronics: Plasmon-Enhanced Photocurrent of Photosynthetic Pigment Proteins on Nanoporous Silver (Adv. Funct. Mater. 2/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 284-284	15.6	1
6	In Situ Visualization and Quantification of Electrical Self-Heating in Conjugated Polymer Diodes Using Raman Spectroscopy. <i>Advanced Electronic Materials</i> , 2101208	6.4	1
5	Dynamics of Charge Transfer Excitons Recombination in Polymer/Fullerene Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1286, 2		
4	Effects of air and light exposure on the opto-electronic properties of polymer:fullerene solar cells. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1286, 61		
3	Device Applications of Organic Materials 2006 , 267-305		
2	Correlating Ultrafast Dynamics, Liquid Crystalline Phases, and Ambipolar Transport in Fluorinated Benzothiadiazole Dyes. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100186	6.4	
1	Organic tandem solar cells: How impedance analyses can improve the quality of external quantum efficiency measurements. <i>Progress in Photovoltaics: Research and Applications</i> , 2018 , 26, 763-777	6.8	