

# Elizabeth von Hauff

## List of Publications by Year in descending order

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86  
papers

3,822  
citations

159585

30  
h-index

123424

61  
g-index

87  
all docs

87  
docs citations

87  
times ranked

6063  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impedance spectroscopy for perovskite solar cells: characterisation, analysis, and diagnosis. <i>Journal of Materials Chemistry C</i> , 2022, 10, 742-761.	5.5	68
2	Combination of Highly Efficient Electrocatalytic Water Oxidation with Selective Oxygenation of Organic Substrates using Manganese Borophosphates. <i>Advanced Materials</i> , 2021, 33, e2004098.	21.0	52
3	Correlating Ultrafast Dynamics, Liquid Crystalline Phases, and Ambipolar Transport in Fluorinated Benzothiadiazole Dyes. <i>Advanced Electronic Materials</i> , 2021, 7, 2100186.	5.1	2
4	Organic Photovoltaics: Where Are We Headed?. <i>Solar Rrl</i> , 2021, 5, 2100167.	5.8	18
5	2D or not 2D: Eliminating interfacial losses in perovskite solar cells. <i>CheM</i> , 2021, 7, 1694-1696.	11.7	1
6	Dynamical theory for the battery's electromotive force. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9428-9439.	2.8	5
7	Charge transfer excitons in a donor-acceptor amphidynamic crystal: the role of dipole orientational order. <i>Materials Horizons</i> , 2020, 7, 2951-2958.	12.2	8
8	Pitfalls and prospects of optical spectroscopy to characterize perovskite-transport layer interfaces. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	28
9	All-conjugated donor-acceptor block copolymers featuring a pentafulvenyl-polyisocyanide-acceptor. <i>Polymer Chemistry</i> , 2020, 11, 1852-1859.	3.9	5
10	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , 2020, 5, 35-49.	39.5	797
11	N-â†' B 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.	4.8	37
12	Relating Chain Conformation to the Density of States and Charge Transport in Conjugated Polymers: The Role of the $\langle \cos^2 \theta \rangle$ -phase in Poly(9,9-dioctylfluorene). <i>Physical Review X</i> , 2019, 9, .	8.9	11
13	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.	6.1	16
14	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 &amp; Interfaces</i> , 2019, 11, 17555-17562.	8.0	24
15	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.	5.1	23
16	Impedance Spectroscopy for Emerging Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11329-11346.	3.1	248
17	The Effect of Electrostatic Interaction on n-Type Doping Efficiency of Fullerene Derivatives. <i>Advanced Electronic Materials</i> , 2019, 5, 1800959.	5.1	15
18	Challenges and perspectives in continuous glucose monitoring. <i>Chemical Communications</i> , 2018, 54, 5032-5045.	4.1	95

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19	Extraordinary Interfacial Stitching between Single All-Inorganic Perovskite Nanocrystals. ACS Applied Materials & Interfaces, 2018, 10, 5984-5991.	8.0	27
20	New Materials for Organic Electronics: Improved Properties to Tackle Application Challenges. Advanced Electronic Materials, 2018, 4, 1800621.	5.1	3
21	Organic tandem solar cells: How impedance analyses can improve the quality of external quantum efficiency measurements. Progress in Photovoltaics: Research and Applications, 2018, 26, 763-777.	8.1	0
22	Stability of organic solar cells with PCDTBT donor polymer: An interlaboratory study. Journal of Materials Research, 2018, 33, 1909-1924.	2.6	17
23	Interplay between Long-Range Crystal Order and Short-Range Molecular Interactions Tunes Carrier Mobility in Liquid Crystal Dyes. ACS Applied Materials & Interfaces, 2017, 9, 6228-6236.	8.0	8
24	Trap-Induced Dispersive Transport and Dielectric Loss in PbS Nanoparticle Films. Zeitschrift Fur Physikalische Chemie, 2017, 231, 121-134.	2.8	5
25	Optoelectronic Properties of PCPDTBT for Photovoltaics: Morphology Control and Molecular Doping. Advances in Polymer Science, 2017, , 109-138.	0.8	3
26	Controlled Morphology of ZnO Nanorods for Electron Transport in Squaraine Bulk-Hetero Junction Solar Cells With Thick Active Layers. Solar Rrl, 2017, 1, 1700132.	5.8	9
27	Simple One-Pot Syntheses and Characterizations of Free Fluoride- and Bifluoride-Containing Polymers Soluble in Non-Aqueous Solvents. Materials, 2016, 9, 965.	2.9	1
28	Loss Mechanisms in High Efficiency Polymer Solar Cells. Advanced Energy Materials, 2016, 6, 1501742.	19.5	37
29	Plasmon-Enhanced Photocurrent of Photosynthetic Pigment Proteins on Nanoporous Silver. Advanced Functional Materials, 2016, 26, 285-292.	14.9	95
30	Facile Preparation of Chloride-Conducting Membranes: First Step towards a Room-Temperature Solid-State Chloride-Ion Battery. ChemistryOpen, 2016, 5, 525-530.	1.9	26
31	High-Permittivity Conjugated Polyelectrolyte Interlayers for High-Performance Bulk Heterojunction Organic Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 6309-6314.	8.0	37
32	Bioelectronics: Plasmon-Enhanced Photocurrent of Photosynthetic Pigment Proteins on Nanoporous Silver (Adv. Funct. Mater. 2/2016). Advanced Functional Materials, 2016, 26, 284-284.	14.9	1
33	EU COST Action MP1307 "Unravelling the degradation mechanisms of emerging solar cell technologies. , 2016, , .		0
34	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. Journal of Materials Chemistry C, 2016, 4, 2587-2597.	5.5	7
35	Emerging Thin-Film Photovoltaics: Stabilize or Perish. Advanced Energy Materials, 2015, 5, .	19.5	3
36	Procedures and Practices for Evaluating Thin-Film Solar Cell Stability. Advanced Energy Materials, 2015, 5, 1501407.	19.5	137

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37	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.	2.4	8
38	How intermolecular geometrical disorder affects the molecular doping of donor-acceptor copolymers. <i>Nature Communications</i> , 2015, 6, 6460.	12.8	104
39	Charge Redistribution and Extraction in Photocatalytically Synthesized Au-ZnO Nanohybrids. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21704-21710.	3.1	19
40	Imaging of morphological changes and phase segregation in doped polymeric semiconductors. <i>Synthetic Metals</i> , 2015, 199, 381-387.	3.9	31
41	Influence of Thermal Annealing on PCDTBT:PCBM Composition Profiles. <i>Advanced Energy Materials</i> , 2014, 4, 1300981.	19.5	47
42	Large area plasmonic nanoparticle arrays with well-defined size and shape. <i>Optical Materials Express</i> , 2014, 4, 944.	3.0	11
43	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.	7.8	11
44	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.	3.3	21
45	Theory of Stark spectroscopy transients from thin film organic semiconducting devices. <i>Physical Review B</i> , 2014, 89, .	3.2	13
46	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.	2.6	10
47	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.	6.2	31
48	Increasing organic solar cell efficiency with polymer interlayers. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 764-769.	2.8	34
49	Spectral Signatures of Polarons in Conjugated Co-polymers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4454-4460.	2.6	22
50	Charge transport properties in electrically aged organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2013, 113, 023104.	2.5	4
51	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.	3.1	63
52	Silica Nanoparticles for Enhanced Carrier Transport in Polymer-Based Short Channel Transistors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22613-22618.	3.1	5
53	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.	3.3	3
54	Improving the photocurrent in low bandgap polymer: fullerene solar cells with molecular doping. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0

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55	Understanding S-Shaped Current-Voltage Characteristics in Organic Solar Cells Containing a TiO <sub>2</sub> Interlayer with Impedance Spectroscopy and Equivalent Circuit Analysis. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16333-16337.	3.1	107
56	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.	2.1	12
57	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.	2.3	14
58	Structural correlations in the generation of polaron pairs in low-bandgap polymers for photovoltaics. <i>Nature Communications</i> , 2012, 3, 970.	12.8	155
59	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.	14.9	44
60	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.	6.2	32
61	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.	6.2	44
62	Molecular doping of low-bandgap-polymer:fullerene solar cells: Effects on transport and solar cells. <i>Organic Electronics</i> , 2012, 13, 290-296.	2.6	72
63	Reduced Charge Transfer Exciton Recombination in Organic Semiconductor Heterojunctions by Molecular Doping. <i>Physical Review Letters</i> , 2011, 107, 127402.	7.8	76
64	The Role of Molecular Structure and Conformation in Polymer Electronics. <i>Semiconductors and Semimetals</i> , 2011, , 231-260.	0.7	7
65	Solvent additives for tuning the photovoltaic properties of polymer-fullerene solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3536-3542.	6.2	39
66	Degradation Effects Related to the Hole Transport Layer in Organic Solar Cells. <i>Advanced Functional Materials</i> , 2011, 21, 2705-2711.	14.9	168
67	Dynamics of Charge Transfer Excitons Recombination in Polymer/Fullerene Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1286, 2.	0.1	1
68	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.	0.1	0
69	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.	10.1	16
70	Correlation between charge transfer exciton recombination and photocurrent in polymer/fullerene solar cells. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	48
71	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
72	Impact of the Incorporation of Au Nanoparticles into Polymer/Fullerene Solar Cells. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3981-3989.	2.5	130

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73	Voltage Regulated Uptake and Release of L-Glutamate from a Molecularly Selective Switch for Physiological Applications. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 879-880.	1.5	1
74	Charge Transfer Excitons in Polymer/Fullerene Blends: The Role of Morphology and Polymer Chain Conformation. Advanced Functional Materials, 2009, 19, 3662-3668.	14.9	116
75	Electrochemical synthesis of polypyrrole layers doped with glutamic ions. Journal of Applied Polymer Science, 2009, 114, 4051-4058.	2.6	9
76	A Gated Four Probe Technique for Field Effect Measurements on Disordered Organic Semiconductors. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 591-595.	1.5	2
77	Binding and Release of Glutamate from Overoxidized Polypyrrole via an Applied Potential for Application as a Molecular Switch. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 359-363.	1.5	4
78	Field effect measurements on charge carrier mobilities in various polymer-fullerene blend compositions. Thin Solid Films, 2006, 511-512, 506-511.	1.8	37
79	Investigations of electron injection in a methanofullerene thin film transistor. Journal of Applied Physics, 2006, 100, 073713.	2.5	11
80	Investigations of the effects of tempering and composition dependence on charge carrier field effect mobilities in polymer and fullerene films and blends. Journal of Applied Physics, 2006, 100, 043702.	2.5	40
81	Current-limiting mechanisms in polymer diodes. Journal of Applied Physics, 2006, 99, 024506.	2.5	31
82	Device Applications of Organic Materials. , 2006, , 267-305.		2
83	Study of field effect mobility in PCBM films and P3HT:PCBM blends. Solar Energy Materials and Solar Cells, 2005, 87, 149-156.	6.2	122
84	Diphenylmethanofullerenes: New and Efficient Acceptors in Bulk-Heterojunction Solar Cells. Advanced Functional Materials, 2005, 15, 1979-1987.	14.9	151
85	Self-dual bending theory for vesicles. Nonlinearity, 2004, 17, 57-66.	1.4	2
86	In Situ Visualization and Quantification of Electrical Self-Heating in Conjugated Polymer Diodes Using Raman Spectroscopy. Advanced Electronic Materials, 0, , 2101208.	5.1	3