

# Heinz BÄssler

## List of Publications by Year in descending order

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71  
papers

5,789  
citations

76326

40  
h-index

98798

67  
g-index

75  
all docs

75  
docs citations

75  
times ranked

5803  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient two layer leds on a polymer blend basis. <i>Advanced Materials</i> , 1995, 7, 551-554.	21.0	1,523
2	Site-Selective Fluorescence Spectroscopy of Conjugated Polymers and Oligomers. <i>Accounts of Chemical Research</i> , 1999, 32, 173-182.	15.6	245
3	Magnetic Field Effects in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Conjugated Polymer-Fullerene Blends: Evidence for Multiple Components. <i>Physical Review Letters</i> , 2008, 101, 236805.	7.8	197
4	Charge Transport in Organic Semiconductors. <i>Topics in Current Chemistry</i> , 2011, 312, 1-65.	4.0	178
5	Disorder in Charge Transport in doped polymers. <i>Advanced Materials</i> , 1994, 6, 199-213.	21.0	171
6	Photoconduction in Amorphous Organic Solids. <i>ChemPhysChem</i> , 2008, 9, 666-688.	2.1	170
7	Electric field-induced photoluminescence quenching in thin-film light-emitting diodes based on poly(phenyl-p-phenylene vinylene). <i>Synthetic Metals</i> , 1995, 73, 123-129.	3.9	158
8	Dispersive Relaxation Dynamics of Photoexcitations in a Polyfluorene Film Involving Energy Transfer: Experiment and Monte Carlo Simulations. <i>Journal of Physical Chemistry B</i> , 2001, 105, 9139-9149.	2.6	154
9	Temperature Induced Order-Disorder Transition in Solutions of Conjugated Polymers Probed by Optical Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 114-125.	4.6	153
10	Triplet-triplet annihilation in a poly(fluorene)-derivative. <i>Journal of Chemical Physics</i> , 2001, 115, 10007-10013.	3.0	125
11	An Order-Disorder Transition in the Conjugated Polymer MEH-PPV. <i>Journal of the American Chemical Society</i> , 2012, 134, 11594-11601.	13.7	123
12	Hot or cold? how do charge transfer states at the donor-acceptor interface of an organic solar cell dissociate?. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28451-28462.	2.8	113
13	What controls triplet exciton transfer in organic semiconductors?. <i>Journal of Materials Chemistry</i> , 2011, 21, 4003-4011.	6.7	107
14	Yield of geminate pair dissociation in an energetically random hopping system. <i>Chemical Physics Letters</i> , 1995, 235, 389-393.	2.6	102
15	Progress towards processible materials for light-emitting devices using poly(p-phenylphenylenevinylene). <i>Advanced Materials</i> , 1992, 4, 661-662.	21.0	94
16	What Determines Inhomogeneous Broadening of Electronic Transitions in Conjugated Polymers?. <i>Journal of Physical Chemistry B</i> , 2010, 114, 17037-17048.	2.6	90
17	Charge Carrier Mobility in a Ladder-Type Conjugated Polymer. <i>Advanced Materials</i> , 1998, 10, 1119-1122.	21.0	80
18	Role of the effective mass and interfacial dipoles on exciton dissociation in organic donor-acceptor solar cells. <i>Physical Review B</i> , 2013, 87, .	3.2	79

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19	Dynamics of the Electric Field-Assisted Charge Carrier Photogeneration in Ladder-Type Poly(Para-Phenylene) at a Low Excitation Intensity. <i>Physical Review Letters</i> , 2002, 89, 107401.	7.8	78
20	Does Conjugation Help Exciton Dissociation? A Study on Poly( <i>p</i> -phenylenes) in Planar Heterojunctions with C <sub>60</sub> or TNF. <i>Advanced Materials</i> , 2012, 24, 922-925.	21.0	78
21	Spectroscopic Signature of Two Distinct H-Aggregate Species in Poly(3-hexylthiophene). <i>Macromolecules</i> , 2015, 48, 1543-1553.	4.8	78
22	Charge transport in highly efficient iridium cored electrophosphorescent dendrimers. <i>Journal of Applied Physics</i> , 2004, 95, 438-445.	2.5	68
23	Localized trions in conjugated polymers. <i>Physical Review B</i> , 2007, 76, .	3.2	62
24	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1990, 11, 415-421.	1.1	59
25	The red-phase of poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV): A disordered HJ-aggregate. <i>Journal of Chemical Physics</i> , 2013, 139, 114903.	3.0	58
26	Efficient Charge Separation of Cold Charge-Transfer States in Organic Solar Cells Through Incoherent Hopping. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2093-2098.	4.6	58
27	Excited states of ladder-type poly- <i>p</i> -phenylene oligomers. <i>Physical Review B</i> , 2001, 64, .	3.2	57
28	Monomolecular and Bimolecular Recombination of Electron-Hole Pairs at the Interface of a Bilayer Organic Solar Cell. <i>Advanced Functional Materials</i> , 2017, 27, 1604906.	14.9	57
29	How to interpret absorption and fluorescence spectra of charge transfer states in an organic solar cell. <i>Materials Horizons</i> , 2018, 5, 837-848.	12.2	57
30	The Impact of Polydispersity and Molecular Weight on the Order-Disorder Transition in Poly(3-hexylthiophene). <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2742-2747.	4.6	54
31	Electric field dependent generation of geminate electron-hole pairs in a ladder-type $\pi$ -conjugated polymer probed by fluorescence quenching and delayed field collection of charge carriers. <i>Chemical Physics Letters</i> , 2002, 361, 99-105.	2.6	52
32	The Impact of Driving Force and Temperature on the Electron Transfer in Donor-Acceptor Blend Systems. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22739-22752.	3.1	52
33	What is the Binding Energy of a Charge Transfer State in an Organic Solar Cell?. <i>Advanced Energy Materials</i> , 2019, 9, 1900814.	19.5	52
34	How Do Disorder, Reorganization, and Localization Influence the Hole Mobility in Conjugated Copolymers?. <i>Journal of the American Chemical Society</i> , 2013, 135, 1772-1782.	18.7	50
35	A Combined Theoretical and Experimental Study of Dissociation of Charge Transfer States at the Donor-Acceptor Interface of Organic Solar Cells. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10359-10371.	2.6	48
36	A comparative site-selective fluorescence study of ladder-type para-phenylene oligomers and oligo-phenylenevinylenes. <i>Chemical Physics</i> , 1996, 210, 219-227.	1.9	47

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37	Transient photoconduction in discotic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1757-1760.	2.8	46
38	How do Triplets and Charges Move in Disordered Organic Semiconductors? A Monte Carlo Study Comprising the Equilibrium and Nonequilibrium Regime. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16371-16383.	3.1	45
39	Spectral diffusion in poly( <i>para</i> -phenylene)-type polymers with different energetic disorder. <i>Physical Review B</i> , 2010, 81, .	3.2	44
40	Comparative study of hole transport in polyspirobifluorene polymers measured by the charge-generation layer time-of-flight technique. <i>Journal of Applied Physics</i> , 2006, 99, 023712.	2.5	42
41	Triplet energy transfer in conjugated polymers. II. A polaron theory description addressing the influence of disorder. <i>Physical Review B</i> , 2008, 78, .	3.2	41
42	To Hop or Not to Hop? Understanding the Temperature Dependence of Spectral Diffusion in Organic Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1694-1700.	4.6	41
43	Disorder vs Delocalization: Which Is More Advantageous for High-Efficiency Organic Solar Cells?. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7107-7112.	4.6	41
44	Triplet energy transfer in conjugated polymers. III. An experimental assessment regarding the influence of disorder on polaronic transport. <i>Physical Review B</i> , 2010, 81, .	3.2	39
45	Role of Intrinsic Photogeneration in Single Layer and Bilayer Solar Cells with C <sub>60</sub> and PCBM. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25083-25091.	3.1	39
46	Nondispersive hole transport in a spin-coated dendrimer film measured by the charge-generation-layer time-of-flight method. <i>Applied Physics Letters</i> , 2002, 81, 3266-3268.	3.3	35
47	Dynamics of charge pair generation in ladder-type poly( <i>para</i> -phenylene) at different excitation photon energies. <i>Physical Review B</i> , 2004, 70, .	3.2	34
48	Controlling aggregate formation in conjugated polymers by spin-coating below the critical temperature of the disorder-order transition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 532-542.	2.1	34
49	Does Excess Energy Assist Photogeneration in an Organic Low-Bandgap Solar Cell?. <i>Advanced Functional Materials</i> , 2015, 25, 1287-1295.	14.9	31
50	Environmental Control of Triplet Emission in Donor-Bridge-Acceptor Organometallics. <i>Advanced Functional Materials</i> , 2020, 30, 1908715.	14.9	31
51	Interchromophoric Coupling in Oligo( <i>p</i> -phenylenevinylene)-Substituted Poly(propyleneimine) Dendrimers. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10220-10229.	2.5	28
52	Mapping the Density of States Distribution of Organic Semiconductors by Employing Energy Resolved Electrochemical Impedance Spectroscopy. <i>Advanced Functional Materials</i> , 2021, 31, 2007738.	14.9	26
53	Dynamic Stark effect as a probe of the evolution of geminate electron-hole pairs in a conjugated polymer. <i>Physical Review B</i> , 2002, 66, .	3.2	25
54	Nondispersive hole transport in carbazole- and anthracene-containing polyspirobifluorene copolymers studied by the charge-generation layer time-of-flight technique. <i>Journal of Applied Physics</i> , 2006, 99, 033710.	2.5	24

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55	Ultrafast Energy Transfer between Disordered and Highly Planarized Chains of Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV). ACS Macro Letters, 2015, 4, 412-416.	4.8	24
56	Measuring Reduced $C_{60}$ Diffusion in Crosslinked Polymer Films by Optical Spectroscopy. Advanced Functional Materials, 2014, 24, 6172-6177.	14.9	22
57	Polarized blue photoluminescence of mesoscopically ordered electrospun non-conjugated polyacrylonitrile nanofibers. Materials Horizons, 2020, 7, 1605-1612.	12.2	22
58	On the role of spectral diffusion of excitons in sensitized photoconduction in conjugated polymers. Chemical Physics Letters, 2004, 383, 166-170.	2.6	20
59	Triplet-Triplet Annihilation in a Series of Poly( <i>p</i> -phenylene) Derivatives. Journal of Physical Chemistry B, 2011, 115, 8417-8423.	2.6	20
60	Exciton dissociation in conjugated polymers. Macromolecular Symposia, 2004, 212, 13-24.	0.7	19
61	Kinetic Monte Carlo Study of Triplet-Triplet Annihilation in Conjugated Luminescent Materials. Physical Review Applied, 2020, 14, .	3.8	15
62	Organische Leuchtdioden. Chemie in Unserer Zeit, 1997, 31, 76-86.	0.1	13
63	Interplay of localized pyrene chromophores and $\pi$ -conjugation in novel poly(2,7-pyrene) ladder polymers. Journal of Chemical Physics, 2017, 146, 174903.	3.0	10
64	Charge transport in polymers studied by combining optical and electrical techniques. Makromolekulare Chemie Macromolecular Symposia, 1990, 37, 1-16.	0.6	9
65	Optoelectronic properties of conjugated polymers. Macromolecular Symposia, 1996, 104, 269-284.	0.7	9
66	Spectroscopic Study of Thiophene-Pyrrole-Containing S,N-Heteroheptacenes Compared to Acenes and Phenacenes. Journal of Physical Chemistry B, 2017, 121, 7492-7501.	2.6	8
67	Static and Dynamic Disorder of Charge Transfer States Probed by Optical Spectroscopy. Advanced Energy Materials, 2022, 12, .	19.5	7
68	The Effect of Doping on the Energy Distribution of Localized States and Carrier Transport in Disordered Organic Semiconductors. Materials Research Society Symposia Proceedings, 2003, 771, 571.	0.1	1
69	Exciton Dissociation In Doped Conjugated Polymers. Materials Research Society Symposia Proceedings, 2003, 771, 7151.	0.1	1
70	Charge Carrier Injection Into A Disordered Organic Dielectric. Materials Research Society Symposia Proceedings, 2002, 734, 671.	0.1	0
71	Charge Injection into Disordered Organic Semiconductors. , 2001, , .		0