

Heinz Bässler

List of Publications by Year in descending order

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71
papers

5,789
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87401

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111975

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75
all docs

75
docs citations

75
times ranked

6655
citing authors

#	ARTICLE	IF	CITATIONS
1	Static and Dynamic Disorder of Charge Transfer States Probed by Optical Spectroscopy. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	7
2	Mapping the Density of States Distribution of Organic Semiconductors by Employing Energy Resolvedâ€“Electrochemical Impedance Spectroscopy. <i>Advanced Functional Materials</i> , 2021, 31, 2007738.	7.8	26
3	Environmental Control of Triplet Emission in Donorâ€“Bridgeâ€“Acceptor Organometallics. <i>Advanced Functional Materials</i> , 2020, 30, 1908715.	7.8	31
4	Kinetic Monte Carlo Study of Triplet-Triplet Annihilation in Conjugated Luminescent Materials. <i>Physical Review Applied</i> , 2020, 14, .	1.5	15
5	Polarized blue photoluminescence of mesoscopically ordered electrospun non-conjugated polyacrylonitrile nanofibers. <i>Materials Horizons</i> , 2020, 7, 1605-1612.	6.4	22
6	Disorder vs Delocalization: Which Is More Advantageous for High-Efficiency Organic Solar Cells?. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7107-7112.	2.1	41
7	What is the Binding Energy of a Charge Transfer State in an Organic Solar Cell?. <i>Advanced Energy Materials</i> , 2019, 9, 1900814.	10.2	52
8	Controlling aggregate formation in conjugated polymers by spinâ€“coating below the critical temperature of the disorderâ€“order transition. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 532-542.	2.4	34
9	How to interpret absorption and fluorescence spectra of charge transfer states in an organic solar cell. <i>Materials Horizons</i> , 2018, 5, 837-848.	6.4	57
10	Interplay of localized pyrene chromophores and ï€-conjugation in novel poly(2,7-pyrene) ladder polymers. <i>Journal of Chemical Physics</i> , 2017, 146, 174903.	1.2	10
11	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.	2.1	58
12	Temperature Induced Orderâ€“Disorder Transition in Solutions of Conjugated Polymers Probed by Optical Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 114-125.	2.1	153
13	The Impact of Driving Force and Temperature on the Electron Transfer in Donorâ€“Acceptor Blend Systems. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22739-22752.	1.5	52
14	Spectroscopic Study of Thiopheneâ€“Pyrrole-Containing S,N-Heteroheptacenes Compared to Acenes and Phenacenes. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7492-7501.	1.2	8
15	Monomolecular and Bimolecular Recombination of Electronâ€“Hole Pairs at the Interface of a Bilayer Organic Solar Cell. <i>Advanced Functional Materials</i> , 2017, 27, 1604906.	7.8	57
16	Role of Intrinsic Photogeneration in Single Layer and Bilayer Solar Cells with C₆₀ and PCBM. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25083-25091.	1.5	39
17	Does Excess Energy Assist Photogeneration in an Organic Lowâ€“Bandgap Solar Cell?. <i>Advanced Functional Materials</i> , 2015, 25, 1287-1295.	7.8	31
18	Spectroscopic Signature of Two Distinct H-Aggregate Species in Poly(3-hexylthiophene). <i>Macromolecules</i> , 2015, 48, 1543-1553.	2.2	78

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19	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.	1.2	48
20	Ultrafast Energy Transfer between Disordered and Highly Planarized Chains of Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV). <i>ACS Macro Letters</i> , 2015, 4, 412-416.	2.3	24
21	“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.	1.3	113
22	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.	2.1	54
23	Measuring Reduced C_{60} Diffusion in Crosslinked Polymer Films by Optical Spectroscopy. <i>Advanced Functional Materials</i> , 2014, 24, 6172-6177.	7.8	22
24	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.	2.1	41
25	Role of the effective mass and interfacial dipoles on exciton dissociation in organic donor-acceptor solar cells. <i>Physical Review B</i> , 2013, 87, .	1.1	79
26	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.	6.6	50
27	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.	1.2	58
28	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.	1.5	45
29	An Order–Disorder Transition in the Conjugated Polymer MEH-PPV. <i>Journal of the American Chemical Society</i> , 2012, 134, 11594-11601.	6.6	123
30	Does Conjugation Help Exciton Dissociation? A Study on Poly(<i>p</i> -phenylene)s in Planar Heterojunctions with C_{60} or TNF. <i>Advanced Materials</i> , 2012, 24, 922-925.	11.1	78
31	What controls triplet exciton transfer in organic semiconductors?. <i>Journal of Materials Chemistry</i> , 2011, 21, 4003-4011.	6.7	107
32	Triplet–Triplet Annihilation in a Series of Poly(<i>p</i> -phenylene) Derivatives. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8417-8423.	1.2	20
33	Charge Transport in Organic Semiconductors. <i>Topics in Current Chemistry</i> , 2011, 312, 1-65.	4.0	178
34	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, .	1.1	39
35	What Determines Inhomogeneous Broadening of Electronic Transitions in Conjugated Polymers?. <i>Journal of Physical Chemistry B</i> , 2010, 114, 17037-17048.	1.2	90
36	Spectral diffusion in poly(<i>para</i> -phenylene)-type polymers with different energetic disorder. <i>Physical Review B</i> , 2010, 81, .	1.1	44

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37	Photoconduction in Amorphous Organic Solids. ChemPhysChem, 2008, 9, 666-688.	1.0	170
38	Magnetic Field Effects in π -Conjugated Polymer-Fullerene Blends: Evidence for Multiple Components. Physical Review Letters, 2008, 101, 236805.	2.9	197
39	Triplet energy transfer in conjugated polymers. II. A polaron theory description addressing the influence of disorder. Physical Review B, 2008, 78, .	1.1	41
40	Localized trions in conjugated polymers. Physical Review B, 2007, 76, .	1.1	62
41	Nondispersive hole transport in carbazole- and anthracene-containing polyspirobifluorene copolymers studied by the charge-generation layer time-of-flight technique. Journal of Applied Physics, 2006, 99, 033710.	1.1	24
42	Comparative study of hole transport in polyspirobifluorene polymers measured by the charge-generation layer time-of-flight technique. Journal of Applied Physics, 2006, 99, 023712.	1.1	42
43	On the role of spectral diffusion of excitons in sensitized photoconduction in conjugated polymers. Chemical Physics Letters, 2004, 383, 166-170.	1.2	20
44	Charge transport in highly efficient iridium cored electrophosphorescent dendrimers. Journal of Applied Physics, 2004, 95, 438-445.	1.1	68
45	Exciton dissociation in conjugated polymers. Macromolecular Symposia, 2004, 212, 13-24.	0.4	19
46	Dynamics of charge pair generation in ladder-type poly(para-phenylene) at different excitation photon energies. Physical Review B, 2004, 70, .	1.1	34
47	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
48	Exciton Dissociation In Doped Conjugated Polymers. Materials Research Society Symposia Proceedings, 2003, 771, 7151.	0.1	1
49	Dynamics of the Electric Field-Assisted Charge Carrier Photogeneration in Ladder-Type Poly(Para-Phenylene) at a Low Excitation Intensity. Physical Review Letters, 2002, 89, 107401.	2.9	78
50	Dynamic Stark effect as a probe of the evolution of geminate electron-hole pairs in a conjugated polymer. Physical Review B, 2002, 66, .	1.1	25
51	Nondispersive hole transport in a spin-coated dendrimer film measured by the charge-generation-layer time-of-flight method. Applied Physics Letters, 2002, 81, 3266-3268.	1.5	35
52	Charge Carrier Injection Into A Disordered Organic Dielectric. Materials Research Society Symposia Proceedings, 2002, 734, 671.	0.1	0
53	Electric field dependent generation of geminate electron-hole pairs in a ladder-type π -conjugated polymer probed by fluorescence quenching and delayed field collection of charge carriers. Chemical Physics Letters, 2002, 361, 99-105.	1.2	52
54	Triplet-triplet annihilation in a poly(fluorene)-derivative. Journal of Chemical Physics, 2001, 115, 10007-10013.	1.2	125

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55	Dispersive Relaxation Dynamics of Photoexcitations in a Polyfluorene Film Involving Energy Transfer:â€% Experiment and Monte Carlo Simulations. Journal of Physical Chemistry B, 2001, 105, 9139-9149.	1.2	154
56	Interchromophoric Coupling in Oligo(p-phenylenevinylene)-Substituted Poly(propyleneimine) Dendrimers. Journal of Physical Chemistry A, 2001, 105, 10220-10229.	1.1	28
57	Excited states of ladder-type poly-p-phenylene oligomers. Physical Review B, 2001, 64, .	1.1	57
58	Charge Injection into Disordered Organic Semiconductors. , 2001, , .		0
59	Site-Selective Fluorescence Spectroscopy of Conjugated Polymers and Oligomers. Accounts of Chemical Research, 1999, 32, 173-182.	7.6	245
60	Transient photoconduction in discotic liquid crystals. Physical Chemistry Chemical Physics, 1999, 1, 1757-1760.	1.3	46
61	Charge Carrier Mobility in a Ladder-Type Conjugated Polymer. Advanced Materials, 1998, 10, 1119-1122.	11.1	80
62	Organische Leuchtdioden. Chemie in Unserer Zeit, 1997, 31, 76-86.	0.1	13
63	Optoâ€electronic properties of conjugated polymers. Macromolecular Symposia, 1996, 104, 269-284.	0.4	9
64	A comparative site-selective fluorescence study of ladder-type para-phenylene oligomers and oligo-phenylenevinylenes. Chemical Physics, 1996, 210, 219-227.	0.9	47
65	Efficient two layer leds on a polymer blend basis. Advanced Materials, 1995, 7, 551-554.	11.1	1,523
66	Yield of geminate pair dissociation in an energetically random hopping system. Chemical Physics Letters, 1995, 235, 389-393.	1.2	102
67	Electric field-induced photoluminescence quenching in thin-film light-emitting diodes based on poly(phenyl-p-phenylene vinylene). Synthetic Metals, 1995, 73, 123-129.	2.1	158
68	Disorder in Charge Transport in doped polymers. Advanced Materials, 1994, 6, 199-213.	11.1	171
69	Progress towards processible materials for light-emitting devices using poly(p-phenylphenylenevinylene). Advanced Materials, 1992, 4, 661-662.	11.1	94
70	Charge transport in polymers studied by combining optical and electrical techniques. Makromolekulare Chemie Macromolecular Symposia, 1990, 37, 1-16.	0.6	9
71	Title is missing!. Die Makromolekulare Chemie Rapid Communications, 1990, 11, 415-421.	1.1	59