

Dirk Hertel

List of Publications by Year in Descending Order

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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.

77 papers	3,489 citations	33 h-index	58 g-index
82 ext. papers	3,734 ext. citations	8.1 avg, IF	4.91 L-index

#	Paper	IF	Citations
77	Perovskite-organic tandem solar cells with indium oxide interconnect.. <i>Nature</i> , 2022 , 604, 280-286	50.4	35
76	Tunneling current modulation in atomically precise graphene nanoribbon heterojunctions. <i>Nature Communications</i> , 2021 , 12, 2542	17.4	4
75	Cyclopentadiene-Based Hole-Transport Material for Cost-Reduced Stabilized Perovskite Solar Cells with Power Conversion Efficiencies Over 23%. <i>Advanced Energy Materials</i> , 2021 , 11, 2003953	21.8	4
74	Understanding the structural and charge transport property relationships for a variety of merocyanine single-crystals: a bottom up computational investigation. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10851-10864	7.1	1
73	Probing the origin of photoluminescence blinking in graphene nanoribbons: Influence of plasmonic field enhancement. <i>2D Materials</i> , 2020 , 7, 045009	5.9	
72	Trap-Assisted Triplet Emission in Ladder-Polymer-Based Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000082	6.4	2
71	Polymorphic chiral squaraine crystallites in textured thin films. <i>Chirality</i> , 2020 , 32, 619-631	2.1	6
70	Cyclopentadithiophene-Based Hole-Transporting Material for Highly Stable Perovskite Solar Cells with Stabilized Efficiencies Approaching 21%. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7456-7463	6.1	14
69	Photodetection Using Atomically Precise Graphene Nanoribbons. <i>ACS Applied Nano Materials</i> , 2020 , 3, 8343-8351	5.6	6
68	Investigation of Hierarchical Structure Formation in Merocyanine Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19457-19466	3.8	4
67	Impact of the Interfacial Molecular Structure Organization on the Charge Transfer State Formation and Exciton Delocalization in Merocyanine:PC61BM Blends. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21978-21984	3.8	2
66	Making Graphene Nanoribbons Photoluminescent. <i>Nano Letters</i> , 2017 , 17, 4029-4037	11.5	54
65	High Electron Mobility and Its Role in Charge Carrier Generation in Merocyanine/Fullerene Blends. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5761-5770	3.8	10
64	Influence of Solid-State Packing of Dipolar Merocyanine Dyes on Transistor and Solar Cell Performances. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13524-34	16.4	58
63	Impact of mesoscale order on open-circuit voltage in organic solar cells. <i>Nature Materials</i> , 2015 , 14, 434-27		154
62	Time-independent, high electron mobility in thin PC61BM films: Relevance to organic photovoltaics. <i>Organic Electronics</i> , 2014 , 15, 3729-3734	3.5	24
61	Solution processed organic double light-emitting layer diode based on cross-linkable small molecular systems. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9563-7	16.4	45

60	Visualizing charge separation in bulk heterojunction organic solar cells. <i>Nature Communications</i> , 2013 , 4, 2334	17.4	140
59	Charge Carrier Generation and Transport in a Polyfluorene Copolymer With Electron Donating Side Groups Doped With PCBM. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15871-15878	3.8	2
58	Photophysical properties and OLED performance of light-emitting platinum(II) complexes. <i>Dalton Transactions</i> , 2013 , 42, 13612-21	4.3	35
57	Charge Transfer States in Merocyanine Neat Films and Its Blends with [6,6]-Phenyl-C61-butyric Acid Methyl Ester. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6039-6048	3.8	6
56	Luminescent neutral platinum complexes bearing an asymmetric N(^) N(^) N ligand for high-performance solution-processed OLEDs. <i>Advanced Materials</i> , 2013 , 25, 437-42	24	83
55	Solution Processed Organic Double Light-Emitting Layer Diode Based on Cross-Linkable Small Molecular Systems. <i>Angewandte Chemie</i> , 2013 , 125, 9742-9746	3.6	10
54	Control of electronic properties of triphenylene by substitution. <i>Organic Electronics</i> , 2012 , 13, 71-83	3.5	12
53	Exciton diffusion, annihilation and their role in the charge carrier generation in fluorene based copolymers. <i>Chemical Physics</i> , 2012 , 404, 42-47	2.3	24
52	Sub-Micrometer Patterning of Amorphous- and EPhase in a Crosslinkable Poly(9,9-dioctylfluorene): Dual-Wavelength Lasing from a Mixed-Morphology Device. <i>Advanced Functional Materials</i> , 2011 , 21, 2564-2570	15.6	40
51	Parallel bulk-heterojunction solar cell by electrostatically driven phase separation. <i>Advanced Materials</i> , 2011 , 23, 5398-403	24	32
50	Simple, Highly Efficient Vacuum-Processed Bulk Heterojunction Solar Cells Based on Merocyanine Dyes. <i>Advanced Energy Materials</i> , 2011 , 1, 888-893	21.8	137
49	Lumineszenz eines Platin(II)-Komplexes in gelierenden Nanofasern und elektrolumineszierenden Filmen. <i>Angewandte Chemie</i> , 2011 , 123, 976-980	3.6	53
48	Switching on luminescence by the self-assembly of a platinum(II) complex into gelating nanofibers and electroluminescent films. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 946-50	16.4	250
47	Screening structure-property correlations and device performance of Ir(III) complexes in multi-layer PhOLEDs. <i>Dalton Transactions</i> , 2011 , 40, 11629-35	4.3	21
46	A simple merocyanine tandem solar cell with extraordinarily high open-circuit voltage. <i>Applied Physics Letters</i> , 2011 , 99, 193306	3.4	15
45	Electric field assisted charge carrier photogeneration in poly(spirobifluorene-co-benzothiadiazole). <i>Journal of Chemical Physics</i> , 2010 , 133, 164904	3.9	8
44	Ultrafast charge carrier mobility dynamics in poly(spirobifluorene-co-benzothiadiazole): Influence of temperature on initial transport. <i>Physical Review B</i> , 2010 , 82,	3.3	26
43	A lasing organic light-emitting diode. <i>Advanced Materials</i> , 2010 , 22, 531-4	24	42

42	Direct comparison of highly efficient solution- and vacuum-processed organic solar cells based on merocyanine dyes. <i>Advanced Materials</i> , 2010 , 22, 4193-7	24	74
41	Hierarchical charge carrier motion in conjugated polymers. <i>Chemical Physics Letters</i> , 2010 , 498, 302-306	2.5	33
40	Excited state relaxation in poly(spirobifluorene-co-benzothiadiazole) films. <i>Journal of Chemical Physics</i> , 2009 , 131, 104902	3.9	11
39	Synthesis and Characterization of Oxetane-Functionalized Phosphorescent Ir(III)-Complexes. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 531-541	2.6	24
38	Cross-Linkable Polyspirobifluorenes: A Material Class Featuring Good OLED Performance and Low Amplified Spontaneous Emission Thresholds. <i>Chemistry of Materials</i> , 2009 , 21, 2912-2919	9.6	25
37	Efficient synthesis of carbazolyl- and thienyl-substituted beta-diketonates and properties of their red- and green-light-emitting Ir(III) complexes. <i>Journal of Organic Chemistry</i> , 2009 , 74, 2718-25	4.2	69
36	Fluoride recognition by a chiral urea receptor linked to a phthalimide chromophore. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 3499-504	3.9	34
35	Ultrafast dynamics of carrier mobility in a conjugated polymer probed at molecular and microscopic length scales. <i>Physical Review Letters</i> , 2009 , 103, 027404	7.4	85
34	Exciton and Polaron Contributions to Photocurrent in MeLPPP on a Picosecond Time Scale. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 496, 16-24	0.5	4
33	Effect of dopant concentration on charge transport in crosslinkable polymers. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 814-819	1.3	8
32	Photoconduction in amorphous organic solids. <i>ChemPhysChem</i> , 2008 , 9, 666-88	3.2	160
31	Advanced Device Architecture for Highly Efficient Organic Light-Emitting Diodes with an Orange-Emitting Crosslinkable Iridium(III) Complex. <i>Advanced Materials</i> , 2008 , 20, 129-133	24	134
30	Highly efficient solution-processed phosphorescent multilayer organic light-emitting diodes based on small-molecule hosts. <i>Applied Physics Letters</i> , 2007 , 91, 103507	3.4	125
29	Triplet-polaron quenching in conjugated polymers. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12075-80	3.4	65
28	Exciton diffusion and relaxation in methyl-substituted polyparaphenylene polymer films. <i>Journal of Chemical Physics</i> , 2007 , 127, 144907	3.9	34
27	Charge carrier photogeneration and recombination in ladder-type poly(para-phenylene): Interplay between impurities and external electric field. <i>Physical Review B</i> , 2007 , 76,	3.3	20
26	Nonlinear Exciton Relaxation in Ladder-Type Poly (Para-Phenylene). <i>Molecular Crystals and Liquid Crystals</i> , 2007 , 467, 47-57	0.5	2
25	Influence of hole transport units on the efficiency of polymer light emitting diodes. <i>Applied Physics Letters</i> , 2007 , 90, 142109	3.4	27

24	Organische Leuchtdioden: Bilderzeugung. <i>Chemie in Unserer Zeit</i> , 2005 , 39, 336-347	0.2	26
23	Photophysics of Luminescent Conjugated Polymers 2005 , 95-150		4
22	Highly Efficient Single-Layer Polymer Electrophosphorescent Devices. <i>Advanced Materials</i> , 2004 , 16, 161-166	24	206
21	Exciton dissociation in conjugated polymers. <i>Macromolecular Symposia</i> , 2004 , 212, 13-24	0.8	18
20	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. <i>Chemical Physics Letters</i> , 2002 , 361, 99-105	2.5	50
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	7.4	75
18	Effective-medium theory of hopping charge-carrier transport in weakly disordered organic solids. <i>Physical Review B</i> , 2002 , 65,	3.3	47
17	Spectroscopy of conjugated polymers: phosphorescence and delayed fluorescence. <i>Macromolecular Symposia</i> , 2001 , 175, 141-150	0.8	5
16	Phosphorescence in Conjugated Poly(para-phenylene)-Derivatives. <i>Advanced Materials</i> , 2001 , 13, 65-70	24	170
15	Dispersive geminate recombination in a conjugated polymer. <i>Chemical Physics Letters</i> , 2001 , 348, 89-94	2.5	31
14	The origin of the delayed emission in films of a ladder-type poly(para-phenylene). <i>Synthetic Metals</i> , 2001 , 116, 139-143	3.6	34
13	Triplet-triplet annihilation in a poly(fluorene)-derivative. <i>Journal of Chemical Physics</i> , 2001 , 115, 10007-10013	9.13	116
12	Photogeneration in an Acceptor-Type Poly(Phenylenevinylene). <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 355, 175-190		5
11	Spontaneous and stimulated emission from a ladder-type conjugated polymer. <i>Physical Review B</i> , 1999 , 59, 4112-4118	3.3	27
10	The dynamics of gain-narrowing in a ladder-type π -conjugated polymer. <i>Chemical Physics Letters</i> , 1999 , 312, 376-384	2.5	27
9	Charge carrier transport in conjugated polymers. <i>Journal of Chemical Physics</i> , 1999 , 110, 9214-9222	3.9	169
8	Optoelectronic processes in p-conjugated oligomers and polymers. <i>Pure and Applied Chemistry</i> , 1999 , 71, 2067-2077	2.1	7
7	Relation between photoconduction and excimer formation in a conjugated oligomer. <i>Chemical Physics</i> , 1998 , 227, 179-190	2.3	2

- 6 Charge Carrier Mobility in a Ladder-Type Conjugated Polymer. *Advanced Materials*, **1998**, 10, 1119-1122 24 71
- 5 A Tunable Blue-Green Laser from a Solid Conjugated Polymer. *Physica Status Solidi (B): Basic Research*, **1998**, 206, 437-441 13 5
- 4 The optical gain mechanism in solid conjugated polymers. *Applied Physics Letters*, **1998**, 72, 2933-2935 34 40
- 3 Blue-green laser emission from a solid conjugated polymer. *Solid State Communications*, **1997**, 104, 759-762 13
- 2 Geminate pair dissociation in random organic systems. *Chemical Physics Letters*, **1997**, 274, 165-170 25 37
- 1 Synthesis of 1-cyclopropylmethylosilatrane and 1-cyclopropylmethyl-3,7,10-trimethylosilatrane. Crystal structure of 1-cyclopropylmethylosilatrane. *Journal of Organometallic Chemistry*, **1996**, 523, 221-225 11