Thomas Heiser

List of Publications by Year
in descending order

57 papers	2,440 citations	201674 27 h-index	197818 49 g-index
58 all docs	58 docs citations	58 times ranked	3196 citing authors

#	Article	IF	Citations
1	Dispiroacridine-indacenobisthiophene positional isomers: impact of the bridge on the physicochemical properties. Materials Chemistry Frontiers, 2022, 6, 225-236.	5.9	2
2	Selection of green solvents for organic photovoltaics by reverse engineering. Molecular Systems Design and Engineering, 2022, 7, 182-195.	3.4	1
3	Photo-degradation in bulk heterojunction organic solar cells using a fullerene or a non-fullerene derivative electron acceptor. Organic Electronics, 2022, 107, 106549.	2.6	6
4	How Halogenation Impacts the Polymer Backbone Conformation: Learning from Combination of Solidâ€State MAS NMR and Xâ€Ray Scattering. Advanced Functional Materials, 2022, 32, .	14.9	4
5	On the Impact of Linear Siloxanated Side Chains on the Molecular Selfâ€Assembling and Charge Transport Properties of Conjugated Polymers. Advanced Functional Materials, 2021, 31, 2007734.	14.9	25
6	Quinolinophenothiazine as an electron rich fragment for high efficiency RGB single-layer phosphorescent organic light-emitting diodes. Materials Chemistry Frontiers, 2021, 5, 8066-8077.	5.9	9
7	Two-dimensional snapshot measurement of surface variation of anchoring in liquid crystal cells. Liquid Crystals, 2021, 48, 2086-2096.	2.2	4
8	Regioisomers of Organic Semiconducting Dumbbellâ€Shaped Molecules: Synthesis and Structureâ€Properties Relationship. European Journal of Organic Chemistry, 2021, 2021, 3170-3177.	2.4	3
9	Spirophenylacridineâ€2,7â€(diphenylphosphineoxide)â€fluorene: A Bipolar Host for Highâ€Efficiency Singleâ€Layer Blue Phosphorescent Organic Lightâ€Emitting Diodes. Advanced Optical Materials, 2020, 8, 1901225.	7.3	41
10	Efficient ternary organic photovoltaics with two polymer donors by minimizing energy loss. Journal of Materials Chemistry A, 2020, 8, 1265-1272.	10.3	84
11	Universal host materials for red, green and blue high-efficiency single-layer phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 16354-16367.	5.5	39
12	ITOâ€Free Organic Photovoltaic Modules Based on Fluorinated Polymers Deposited from Nonâ€Halogenated Solution: A Major Step Toward Largeâ€Scale Module Production. Solar Rrl, 2019, 3, 1900273.	5.8	12
13	Benzothiadiazole Halogenation Impact in Conjugated Polymers, a Comprehensive Study. Macromolecules, 2019, 52, 8006-8016.	4.8	26
14	Hydrogen Bonding as a Supramolecular Tool for Robust OFET Devices. Chemistry - A European Journal, 2019, 25, 8304-8312.	3.3	26
15	Effect of Aryl Substituents and Fluorine Addition on the Optoelectronic Properties and Organic Solar Cell Performance of a High Efficiency Indacenodithienothiopheneâ€altâ€Quinoxaline Ïâ€Conjugated Polymer. Macromolecular Chemistry and Physics, 2019, 220, 1800418.	2.2	4
16	An Electron-Transporting Thiazole-Based Polymer Synthesized Through Direct (Hetero)Arylation Polymerization. Molecules, 2018, 23, 1270.	3.8	5
17	Face-on orientation of fluorinated polymers conveyed by long alkyl chains: a prerequisite for high photovoltaic performances. Journal of Materials Chemistry A, 2018, 6, 12038-12045.	10.3	32
18	Rational Engineering of BODIPYâ€Bridged Trisindole Derivatives for Solar Cell Applications. ChemSusChem, 2017, 10, 1878-1882.	6.8	47

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19	Improved structural order by side-chain engineering of organic small molecules for photovoltaic applications. Journal of Materials Chemistry C, 2017, 5, 10794-10800.	5.5	17
20	New Fluorinated Dithienyldiketopyrrolopyrrole Monomers and Polymers for Organic Electronics. Macromolecules, 2017, 50, 7080-7090.	4.8	50
21	The role of chemical structure in indacenodithienothiophene-alt-benzothiadiazole copolymers for high performance organic solar cells with improved photo-stability through minimization of burn-in loss. Journal of Materials Chemistry A, 2017, 5, 25064-25076.	10.3	24
22	Wide area mapping of liquid crystal devices with passive and active command layers. Applied Optics, 2017, 56, 9050.	1.8	6
23	Impact of Backbone Fluorination on Ï€-Conjugated Polymers in Organic Photovoltaic Devices: A Review. Polymers, 2016, 8, 11.	4.5	151
24	Integrated high-voltage CMOS mixed-signal instrumentation system for OFET-based gas sensor. , 2016, , .		3
25	Disentangling energetic and charge-carrier dynamic influences on the open-circuit voltage in bulk-heterojunction solar-cells. Journal of Applied Physics, 2016, 120, .	2.5	2
26	Effect of Aging and PCBM Content on Bulk Heterojunction Organic Solar Cells Studied by Intensity Modulated Photocurrent Spectroscopy. ACS Applied Materials & Interfaces, 2016, 8, 28789-28799.	8.0	9
27	Tailoring the microstructure and charge transport in conjugated polymers by alkyl side-chain engineering. Journal of Materials Chemistry C, 2016, 4, 286-294.	5.5	19
28	Using pyridal[2,1,3]thiadiazole as an acceptor unit in a low band-gap copolymer for photovoltaic applications. Organic Electronics, 2015, 23, 171-178.	2.6	5
29	LUMO's modulation by electron withdrawing unit modification in amorphous TAT dumbbell-shaped molecules. Journal of Materials Chemistry A, 2015, 3, 6620-6628.	10.3	20
30	A deep-purple-grey thiopheneâ€“benzothiadiazoleâ€“thiophene BODIPY dye for solution-processed solar cells. New Journal of Chemistry, 2014, 38, 3644-3653.	2.8	30
31	Anisotropic charge transport in large single crystals of Ï€-conjugated organic molecules. Nanoscale, 2014, 6, 4774.	5.6	37
32	Thiazole as a weak electron-donor unit to lower the frontier orbital energy levels of donorâ€“acceptor alternating conjugated materials. Chemical Communications, 2013, 49, 9938.	4.1	39
33	Microstructure and Optoelectronic Properties of P3HT-b-P4VP/PCBM Blends: Impact of PCBM on the Copolymer Self-Assembly. Macromolecules, 2013, 46, 8824-8831.	4.8	22
34	Impact of the arrangement of functional moieties within small molecular systems for solution processable bulk heterojunction solar cells. New Journal of Chemistry, 2013, 37, 2317.	2.8	8
35	TriazatruxeneâEDiketopyrrolopyrrole Dumbbellâ€Shaped Molecules as Photoactive Electron Donor for Highâ€Efficiency Solution Processed Organic Solar Cells. Advanced Energy Materials, 2013, 3, 1118-1124.	19.5	64
36	Large Scale Alignment and Charge Transport Anisotropy of pBTTT Films Oriented by High Temperature Rubbing. Macromolecules, 2013, 46, 4014-4023.	4.8	135

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37	Effect of Molecular Weight on the Photovoltaic Performance of a Low band gap Copolymer blended with ICBA. Materials Research Society Symposia Proceedings, 2013, 1537, 1.	0.1	1
38	Ambipolar charge transport in polymer:fullerene bulk heterojunctions for different polymer side-chains. Applied Physics Letters, 2012, 101, 123301.	3.3	11
39	A Spin-carrying Naphthalenediimide Derivative with Azobenzene Unit. Chemistry Letters, 2012, 41, 175-177.	1.3	6
40	High-Performance Solution-Processed Solar Cells and Ambipolar Behavior in Organic Field-Effect Transistors with Thienyl-BODIPY Scaffoldings. Journal of the American Chemical Society, 2012, 134, 17404-17407.	13.7	227
41	3,6â€Dialkylthieno[3,2â€b]thiophene moiety as a soluble and electron donating unit preserving the coplanarity of photovoltaic low band gap copolymers. Journal of Polymer Science Part A, 2012, 50, 1861-1868.	2.3	39
42	Optimization of the side-chain density to improve the charge transport and photovoltaic performances of a low band gap copolymer. Organic Electronics, 2012, 13, 114-120.	2.6	32
43	Absorption Tuning of Monosubstituted Triazatruxenes for Bulk Heterojunction Solar Cells. Organic Letters, 2011, 13, 6030-6033.	4.6	70
44	Thiadiazole fused indolo[2,3-a]carbazoles as new building blocks for optoelectronic applications. Tetrahedron Letters, 2011, 52, 1811-1814.	1.4	18
45	A New Supramolecular Route for Using Rodâ€Coil Block Copolymers in Photovoltaic Applications. Advanced Materials, 2010, 22, 763-768.	21.0	159
46	Electronic Properties and Photovoltaic Performances of a Series of Oligothiophene Copolymers Incorporating Both Thieno[3,2â€b]thiophene and 2,1,3â€Benzothiadiazole Moieties. Macromolecular Rapid Communications, 2010, 31, 651-656.	3.9	35
47	Impact of the Alkyl Side Chains on the Optoelectronic Properties of a Series of Photovoltaic Low-Band-Gap Copolymers. Macromolecules, 2010, 43, 9779-9786.	4.8	122
48	A [3,2-b]thienothiophene-alt-benzothiadiazole copolymer for photovoltaic applications: design, synthesis, material characterization and device performances. Journal of Materials Chemistry, 2009, 19, 4946.	6.7	61
49	Design of a Linear Poly(3â€hexylthiophene)/Fullereneâ€Based Donorâ€Acceptor Rodâ€Coil Block Copolymer. Macromolecular Rapid Communications, 2008, 29, 885-891.	3.9	108
50	Self-Assembling of Novel Fullerene-Grafted Donorâ€“Acceptor Rodâ^'Coil Block Copolymers. Macromolecules, 2008, 41, 2701-2710.	4.8	113
51	Out-Diffusion and Precipitation of Copper in Silicon: An Electrostatic Model. Physical Review Letters, 2000, 85, 4900-4903.	7.8	56
52	Formation of copper precipitates in silicon. Physica B: Condensed Matter, 1999, 273-274, 437-440.	2.7	14
53	Intrinsic Diffusion Coefficient of Interstitial Copper in Silicon. Physical Review Letters, 1998, 81, 1243-1246.	7.8	199
54	Transient ion drift detection of low level copper contamination in silicon. Applied Physics Letters, 1997, 70, 3576-3578.	3.3	41

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55	Interstitial copper-related center in n-type silicon. Applied Physics Letters, 1997, 71, 2349-2351.	3.3	55
56	Defect reactions in copper-diffused and quenchedp-type silicon. Physical Review B, 1992, 45, 11632-11641.	3.2	54
57	Efficient 3D charge transport in planar triazatruxene-based dumbbell-shaped molecules forming a bridged columnar phase. Journal of Materials Chemistry A, 0, , .	10.3	6