

Zhi-Kuan Chen

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,622
citations

331670

21
h-index

330143

37
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38
docs citations

38
times ranked

2833
citing authors

#	ARTICLE	IF	CITATIONS
1	Fused perylene diimide-based polymeric acceptors with different π -conjugation and molecular conformation in all polymer solar cells. <i>Dyes and Pigments</i> , 2022, 204, 110462.	3.7	4
2	A novel design strategy for deeper blue and more stable thermally activated delayed fluorescent emitters. <i>Organic Electronics</i> , 2020, 78, 105610.	2.6	4
3	Nonplanar Perylene Diimide-Based Small Molecule and Its Polymer as Electron Acceptors. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2749-2755.	4.4	8
4	PDI-based heteroacenes as acceptors for fullerene-free solar cells: importance of their twisted geometry. <i>New Journal of Chemistry</i> , 2020, 44, 13093-13099.	2.8	6
5	Triplet Excited-State Engineering of Phosphorescent Pt(II) Complexes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5105-5110.	4.6	27
6	An Asymmetric Molecular Design Strategy for Organic Field-Effect Transistors with High Consistency of Performance. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1233-1242.	4.3	1
7	Recent progress on non-fullerene acceptors for organic photovoltaics. <i>Materials Today</i> , 2019, 24, 94-118.	14.2	113
8	Inorganic perovskite light emitting diodes with ZnO as the electron transport layer by direct atomic layer deposition. <i>Organic Electronics</i> , 2018, 57, 60-67.	2.6	16
9	Probing Triplet Excited States and Managing Blue Light Emission of Neutral Tetradentate Platinum(II) Complexes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2285-2292.	4.6	31
10	Dopant-free hole transport materials based on alkyl-substituted indacenodithiophene for planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4706-4713.	5.5	52
11	Low-Temperature Atomic Layer Deposition of Metal Oxide Layers for Perovskite Solar Cells with High Efficiency and Stability under Harsh Environmental Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23928-23937.	8.0	84
12	Phenylquinoline fused cyclic derivatives as electron acceptors of exciplex forming hosts for solution-processable red phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8035-8041.	5.5	15
13	Diketopyrrolopyrrole-based acceptors with multi-arms for organic solar cells. <i>RSC Advances</i> , 2018, 8, 25031-25039.	3.6	8
14	Improved Performance of Thick Films Based Binary and Ternary Bulk Heterojunction Organic Photovoltaic Devices Incorporated with Electrospinning Processed Nanofibers. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800914.	3.7	3
15	Quinoxaline-Based Wide Band Gap Polymers for Efficient Nonfullerene Organic Solar Cells with Large Open-Circuit Voltages. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23235-23246.	8.0	39
16	Highly Efficient Deep-Blue Electroluminescence from a π -Structure Based Fluorescence Material with Exciton Utilizing Efficiency above 25%. <i>ACS Applied Energy Materials</i> , 2018, 1, 3243-3254.	5.1	23
17	High-Performance Organic Solar Cells Based on a Non-Fullerene Acceptor with a Spiro Core. <i>Chemistry - an Asian Journal</i> , 2017, 12, 721-725.	3.3	33
18	Naphthalene tetracarboxylic diimide (NDI)-based polymer solar cells processed by non-halogenated solvents. <i>Organic Electronics</i> , 2017, 46, 203-210.	2.6	18

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19	Dopant-free Hole-Transport Materials Based on Methoxytriphenylamine-Substituted Indacenodithienothiophene for Solution-Processed Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 2833-2838.	6.8	43
20	Impact of Fluorine Atoms on Perylene Diimide Derivative for Fullerene-Free Organic Photovoltaics. <i>Chemistry - an Asian Journal</i> , 2017, 12, 2052-2056.	3.3	11
21	Effect of fluorination on n-type conjugated polymers for all-polymer solar cells. <i>RSC Advances</i> , 2017, 7, 17076-17084.	3.6	20
22	Three dimensional multi-arm acceptors based on diketopyrrolopyrrole with (hetero)aromatic cores for non-fullerene organic solar cells without additional treatment. <i>Dyes and Pigments</i> , 2017, 139, 412-419.	3.7	19
23	All-polymer solar cells performance enhanced via side-chain engineering of the polymer acceptor. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5407-5414.	2.2	1
24	Side chain engineering of naphthalene diimide-bithiophene-based polymer acceptors in all-polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3679-3689.	2.3	10
25	PDI Derivative through Fine-Tuning the Molecular Structure for Fullerene-Free Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29924-29931.	8.0	154
26	Facile synthesis of a dopant-free hole transporting material with a phenothiazine core for planar perovskite solar cells. <i>RSC Advances</i> , 2017, 7, 53604-53610.	3.6	21
27	Design of three-component randomly incorporated copolymers as non-fullerene acceptors for all-polymer solar cells. <i>Polymer Chemistry</i> , 2016, 7, 2230-2238.	3.9	32
28	A random copolymer approach to develop nonfullerene acceptors for all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2106-2110.	5.5	35
29	Effects of Damköhler number of evaporation on the morphology of active layer and the performance of organic heterojunction solar cells fabricated by electrospray method. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 140-147.	6.2	25
30	High-efficiency polymer solar cells by blade coating in chlorine-free solvents. <i>Organic Electronics</i> , 2014, 15, 893-903.	2.6	51
31	Enhancement of the performance of organic solar cells by electrospray deposition with optimal solvent system. <i>Solar Energy Materials and Solar Cells</i> , 2014, 121, 119-125.	6.2	49
32	Design and modification of three-component randomly incorporated copolymers for high performance organic photovoltaic applications. <i>Polymer Chemistry</i> , 2013, 4, 804-811.	3.9	48
33	Dialkyl-Substituted Dithienothiophene Copolymers as Polymer Semiconductors for Thin-Film Transistors and Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , 2011, 44, 690-693.	4.8	36
34	A Versatile Low Bandgap Polymer for Air-Stable, High-Mobility Field-Effect Transistors and Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2011, 23, 1409-1413.	21.0	144
35	Solution processable low bandgap diketopyrrolopyrrole (DPP) based derivatives: novel acceptors for organic solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 3626.	6.7	239
36	Fluorene-Based Oligomers for Highly Efficient and Stable Organic Blue-Light-Emitting Diodes. <i>Advanced Materials</i> , 2009, 21, 2425-2429.	21.0	106

#	ARTICLE	IF	CITATIONS
37	N-Type Conjugated Materials Based on 2-Vinyl-4,5-dicyanoimidazoles and Their Use in Solar Cells. Chemistry of Materials, 2007, 19, 1892-1894.	6.7	93