

Krishna Feron

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58
papers

1,369
citations

21
h-index

35
g-index

62
ext. papers

1,622
ext. citations

7
avg, IF

4.53
L-index

#	Paper	IF	Citations
58	Molecular Engineering Using an Anthanthrone Dye for Low-Cost Hole Transport Materials: A Strategy for Dopant-Free, High-Efficiency, and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703007	21.8	115
57	Organic solar cells: understanding the role of Förster resonance energy transfer. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 17019-47	6.3	92
56	Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1009-1018	7.1	78
55	Organic Bioelectronics: Materials and Biocompatibility. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	65
54	Nano-pathways: Bridging the divide between water-processable nanoparticulate and bulk heterojunction organic photovoltaics. <i>Nano Energy</i> , 2016 , 19, 495-510	17.1	57
53	Dopant-free novel hole-transporting materials based on quinacridone dye for high-performance and humidity-stable mesoporous perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5315-5323	13.3	55
52	Boosting inverted perovskite solar cell performance by using 9,9-bis(4-diphenylaminophenyl)fluorene functionalized with triphenylamine as a dopant-free hole transporting material. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12507-12517	13	52
51	Thienylvinyleneethienyl and Naphthalene Core Substituted with Triphenylamines Highly Efficient Hole Transporting Materials and Their Comparative Study for Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700105	7.1	49
50	One step facile synthesis of a novel anthanthrone dye-based, dopant-free hole transporting material for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3699-3708	7.1	48
49	Spatially resolved photocurrent measurements of organic solar cells: Tracking water ingress at edges and pinholes. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 169-177	6.4	48
48	Low-Cost Alternative High-Performance Hole-Transport Material for Perovskite Solar Cells and Its Comparative Study with Conventional SPIRO-OMeTAD. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700139	6.4	43
47	Acene-based organic semiconductors for organic light-emitting diodes and perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9017-9029	7.1	41
46	All-Rounder Low-Cost Dopant-Free D-A-D Hole-Transporting Materials for Efficient Indoor and Outdoor Performance of Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900884	6.4	35
45	The origin of performance limitations in miniemulsion nanoparticulate organic photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 175, 77-88	6.4	33
44	Probing the origin of photocurrent in nanoparticulate organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 412-421	6.4	31
43	Fully roll-to-roll prepared organic solar cells in normal geometry with a sputter-coated aluminium top-electrode. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 149, 103-109	6.4	28
42	A low-cost mixed fullerene acceptor blend for printed electronics. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10274-10281	13	27

41	Tuning the Charge Carrier Polarity of Organic Transistors by Varying the Electron Affinity of the Flanked Units in Diketopyrrolopyrrole-Based Copolymers. <i>Advanced Functional Materials</i> , 2020 , 30, 1907452	15.6	27
40	Utilizing Energy Transfer in Binary and Ternary Bulk Heterojunction Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20928-37	9.5	25
39	Engineering Two-Phase and Three-Phase Microstructures from Water-Based Dispersions of Nanoparticles for Eco-Friendly Polymer Solar Cell Applications. <i>Chemistry of Materials</i> , 2018 , 30, 6521-6531	9.6	23
38	Highly compact and uniform CH ₃ NH ₃ Sn _{0.5} Pb _{0.5} I ₃ films for efficient panchromatic planar perovskite solar cells. <i>Science Bulletin</i> , 2016 , 61, 1558-1562	10.6	23
37	Synergistic Use of Pyridine and Selenophene in a Diketopyrrolopyrrole-Based Conjugated Polymer Enhances the Electron Mobility in Organic Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 2000489	15.6	20
36	Naphthalene flanked diketopyrrolopyrrole based organic semiconductors for high performance organic field effect transistors. <i>New Journal of Chemistry</i> , 2018 , 42, 12374-12385	3.6	20
35	Role of Stabilizing Surfactants on Capacitance, Charge, and Ion Transport in Organic Nanoparticle-Based Electronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10074-10088	9.5	20
34	Comparison of inorganic electron transport layers in fully roll-to-roll coated/printed organic photovoltaics in normal geometry. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15986-15996	13	19
33	Diketopyrrolopyrrole based organic semiconductors with different numbers of thiophene units: symmetry tuning effect on electronic devices. <i>New Journal of Chemistry</i> , 2018 , 42, 4017-4028	3.6	18
32	Building intermixed donor-acceptor architectures for water-processable organic photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5705-5715	3.6	18
31	9-Fluorenone and 9,10-anthraquinone potential fused aromatic building blocks to synthesize electron acceptors for organic solar cells. <i>New Journal of Chemistry</i> , 2017 , 41, 2899-2909	3.6	17
30	Switched Photocurrent on Tin Sulfide-Based Nanoplate Photoelectrodes. <i>ChemSusChem</i> , 2017 , 10, 670-674	6.4	17
29	Biowaste-Derived, Self-Organized Arrays of High-Performance 2D Carbon Emitters for Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e1906176	24	15
28	Comparative degradation and regeneration of polymer solar cells with different cathodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5281-9	9.5	15
27	Towards the development of a virtual organic solar cell: An experimental and dynamic Monte Carlo study of the role of charge blocking layers and active layer thickness. <i>Applied Physics Letters</i> , 2012 , 101, 193306	3.4	15
26	Enhanced regeneration of degraded polymer solar cells by thermal annealing. <i>Applied Physics Letters</i> , 2014 , 104, 193905	3.4	14
25	The role of surface energy control in organic photovoltaics based on solar paints. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9202-9214	13	13
24	Tunable Crystallization and Nucleation of Planar CHNHPbI through Solvent-Modified Interdiffusion. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14673-14683	9.5	13

23	Triethylene Glycol Substituted Diketopyrrolopyrrole- and Isoindigo-Dye Based Donor-Acceptor Copolymers for Organic Light-Emitting Electrochemical Cells and Transistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901414	6.4	11
22	Short Alkyl Chain Engineering Modulation on Naphthalene Flanked Diketopyrrolopyrrole toward High-Performance Single Crystal Transistors and Organic Thin Film Displays. <i>Advanced Electronic Materials</i> , 2021 , 7, 2000804	6.4	11
21	Matrix assisted low temperature growth of graphene. <i>Carbon</i> , 2016 , 107, 325-331	10.4	10
20	Diketopyrrolopyrrole-Based Dual-Acceptor Copolymers to Realize Tunable Charge Carrier Polarity of Organic Field-Effect Transistors and High-Performance Nonvolatile Ambipolar Flash Memories. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1609-1618	4	9
19	A building-block approach to the development of an equivalent circuit model for organic photovoltaic cells. <i>Organic Electronics</i> , 2018 , 58, 207-215	3.5	9
18	A new pyrene cored small organic molecule with a flexible alkyl spacer: a potential solution processable blue emitter with bright photoluminescence. <i>New Journal of Chemistry</i> , 2017 , 41, 11383-11390	3.6	9
17	Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells. <i>Organic Electronics</i> , 2020 , 77, 105524	3.5	9
16	Deducing transport properties of mobile vacancies from perovskite solar cell characteristics. <i>Journal of Applied Physics</i> , 2020 , 128, 184501	2.5	8
15	A nuanced approach for assessing OPV materials for large scale applications. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 940-949	5.8	8
14	Optimisation of purification techniques for the preparation of large-volume aqueous solar nanoparticle inks for organic photovoltaics. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 649-659	3	7
13	An applied light-beam induced current study of dye-sensitised solar cells: Photocurrent uniformity mapping and true photoactive area evaluation. <i>Journal of Applied Physics</i> , 2014 , 116, 043104	2.5	6
12	Solution processable interface materials for nanoparticulate organic photovoltaic devices. <i>Applied Physics Letters</i> , 2014 , 104, 043902	3.4	6
11	Developing a Portable Organic Solar Cell Kit Suitable for Students to Fabricate and Test Solar Cells in the Laboratory. <i>Journal of Chemical Education</i> , 2020 , 97, 3751-3757	2.4	6
10	Naphthalene flanked diketopyrrolopyrrole: A new DPP family member and its comparative optoelectronic properties with thiophene- and furan- flanked DPP counterparts. <i>Organic Electronics</i> , 2019 , 74, 290-298	3.5	5
9	The effect of calcium-induced fullerene migration on the performance of thermally stable nanoparticle organic solar cells. <i>Journal of Applied Physics</i> , 2014 , 116, 124502	2.5	5
8	Organic Semiconductors for Optically Triggered Neural Interfacing: The Impact of Device Architecture in Determining Response Magnitude and Polarity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-12	3.8	5
7	Energy level engineering in ternary organic solar cells: Evaluating exciton dissociation at organic semiconductor interfaces. <i>Applied Physics Letters</i> , 2017 , 110, 133301	3.4	4
6	Role of Morphology of Surfactant-Free Nanoparticles in Organic Photovoltaics. <i>Journal of Electronic Materials</i> , 2020 , 49, 4168-4179	1.9	4

5	Versatile nature of anthanthrone based polymers as active multifunctional semiconductors for various organic electronic devices. <i>Materials Advances</i> , 2020 , 1, 3428-3438	3.3	3
4	A dynamic Monte Carlo study of anomalous current voltage behaviour in organic solar cells. <i>Journal of Applied Physics</i> , 2014 , 116, 214509	2.5	2
3	Vinylene and benzo[[1,2,5]thiadiazole: effect of the spacer unit on the properties of bis(2-oxoindolin-3-ylidene)-benzodifuran-dione containing polymers for n-channel organic field-effect transistors.. <i>RSC Advances</i> , 2018 , 8, 38919-38928	3.7	2
2	Low-Temperature CVD-Grown Graphene Thin Films as Transparent Electrode for Organic Photovoltaics. <i>Coatings</i> , 2022 , 12, 681	2.9	1
1	Advanced Control of Drug Delivery for Health Applications via Highly Biocompatible Self-Assembled Organic Nanoparticles.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 6338-6350	4.1	0