

# Krishna Feron

## List of Publications by Year in descending order

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59  
papers

1,845  
citations

236833

25  
h-index

276775

41  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2764  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	10.2	154
2	Organic Solar Cells: Understanding the Role of Förster Resonance Energy Transfer. <i>International Journal of Molecular Sciences</i> , 2012, 13, 17019-17047.	1.8	111
3	Organic Bioelectronics: Materials and Biocompatibility. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2382.	1.8	102
4	Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1009-1018.	2.7	99
5	Nano-pathways: Bridging the divide between water-processable nanoparticulate and bulk heterojunction organic photovoltaics. <i>Nano Energy</i> , 2016, 19, 495-510.	8.2	75
6	All-Rounder Low-Cost Dopant-Free Hole-Transporting Materials for Efficient Indoor and Outdoor Performance of Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2020, 6, 1900884.	2.6	72
7	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.	5.2	70
8	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.	5.2	62
9	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.	2.7	61
10	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.	2.6	60
11	Thienylvinylethienyl 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.	3.1	59
12	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.	3.0	57
13	Acene-based organic semiconductors for organic light-emitting diodes and perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9017-9029.	2.7	50
14	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.	7.8	45
15	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.	7.8	43
16	The origin of performance limitations in miniemulsion nanoparticulate organic photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2018, 175, 77-88.	3.0	38
17	A low-cost mixed fullerene acceptor blend for printed electronics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10274-10281.	5.2	37
18	Probing the origin of photocurrent in nanoparticulate organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 412-421.	3.0	35

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19	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.	3.0	35
20	Utilizing Energy Transfer in Binary and Ternary Bulk Heterojunction Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 20928-20937.	4.0	32
21	Naphthalene flanked diketopyrrolopyrrole based organic semiconductors for high performance organic field effect transistors. <i>New Journal of Chemistry</i> , 2018, 42, 12374-12385.	1.4	29
22	Building intermixed donor-acceptor architectures for water-processable organic photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5705-5715.	1.3	27
23	Biowaste-Derived, Self-Organized Arrays of High-Performance 2D Carbon Emitters for Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e1906176.	11.1	27
24	Highly compact and uniform CH <sub>3</sub> NH <sub>3</sub> Sn <sub>0.5</sub> Pb <sub>0.5</sub> I <sub>3</sub> films for efficient panchromatic planar perovskite solar cells. <i>Science Bulletin</i> , 2016, 61, 1558-1562.	4.3	25
25	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.	3.2	25
26	Deducing transport properties of mobile vacancies from perovskite solar cell characteristics. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	25
27	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.	5.2	23
28	Role of Stabilizing Surfactants on Capacitance, Charge, and Ion Transport in Organic Nanoparticle-Based Electronic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10074-10088.	4.0	22
29	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.	2.0	21
30	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.	2.6	20
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.	1.4	19
32	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.	1.4	19
33	Switched Photocurrent on Tin Sulfide-Based Nanoplate Photoelectrodes. <i>ChemSusChem</i> , 2017, 10, 670-674.	3.6	18
34	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.	2.6	18
35	Enhanced regeneration of degraded polymer solar cells by thermal annealing. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	17
36	Comparative Degradation and Regeneration of Polymer Solar Cells with Different Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5281-5289.	4.0	17

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37	The role of surface energy control in organic photovoltaics based on solar paints. Journal of Materials Chemistry A, 2019, 7, 9202-9214.	5.2	16
38	A nuanced approach for assessing OPV materials for large scale applications. Sustainable Energy and Fuels, 2020, 4, 940-949.	2.5	16
39	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. Applied Physics Letters, 2012, 101, .	1.5	15
40	Tunable Crystallization and Nucleation of Planar CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> through Solvent-Modified Interdiffusion. ACS Applied Materials & Interfaces, 2018, 10, 14673-14683.	4.0	14
41	Organic Semiconductors for Optically Triggered Neural Interfacing: The Impact of Device Architecture in Determining Response Magnitude and Polarity. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-12.	1.9	13
42	Developing a Portable Organic Solar Cell Kit Suitable for Students to Fabricate and Test Solar Cells in the Laboratory. Journal of Chemical Education, 2020, 97, 3751-3757.	1.1	12
43	Matrix assisted low temperature growth of graphene. Carbon, 2016, 107, 325-331.	5.4	11
44	A building-block approach to the development of an equivalent circuit model for organic photovoltaic cells. Organic Electronics, 2018, 58, 207-215.	1.4	10
45	Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells. Organic Electronics, 2020, 77, 105524.	1.4	10
46	A new pyrene cored small organic molecule with a flexible alkyl spacer: a potential solution processable blue emitter with bright photoluminescence. New Journal of Chemistry, 2017, 41, 11383-11390.	1.4	9
47	Naphthalene flanked diketopyrrolopyrrole: A new DPP family member and its comparative optoelectronic properties with thiophene- and furan- flanked DPP counterparts. Organic Electronics, 2019, 74, 290-298.	1.4	9
48	Versatile nature of anthanthrone based polymers as active multifunctional semiconductors for various organic electronic devices. Materials Advances, 2020, 1, 3428-3438.	2.6	9
49	Optimisation of purification techniques for the preparation of large-volume aqueous solar nanoparticle inks for organic photovoltaics. Beilstein Journal of Nanotechnology, 2018, 9, 649-659.	1.5	8
50	An applied light-beam induced current study of dye-sensitised solar cells: Photocurrent uniformity mapping and true photoactive area evaluation. Journal of Applied Physics, 2014, 116, 043104.	1.1	7
51	Solution processable interface materials for nanoparticulate organic photovoltaic devices. Applied Physics Letters, 2014, 104, 043902.	1.5	7
52	Advanced Control of Drug Delivery for <i>In Vivo</i> Health Applications via Highly Biocompatible Self-Assembled Organic Nanoparticles. ACS Applied Bio Materials, 2021, 4, 6338-6350.	2.3	6
53	The effect of calcium-induced fullerene migration on the performance of thermally stable nanoparticle organic solar cells. Journal of Applied Physics, 2014, 116, 124502.	1.1	5
54	Energy level engineering in ternary organic solar cells: Evaluating exciton dissociation at organic semiconductor interfaces. Applied Physics Letters, 2017, 110, .	1.5	5

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55	Low-Temperature CVD-Grown Graphene Thin Films as Transparent Electrode for Organic Photovoltaics. <i>Coatings</i> , 2022, 12, 681.	1.2	5
56	Role of Morphology of Surfactant-Free Nanoparticles in Organic Photovoltaics. <i>Journal of Electronic Materials</i> , 2020, 49, 4168-4179.	1.0	4
57	A dynamic Monte Carlo study of anomalous current voltage behaviour in organic solar cells. <i>Journal of Applied Physics</i> , 2014, 116, 214509.	1.1	2
58	Vinylene and benzo[ <i>c</i> ][1,2,5]thiadiazole: effect of the ð-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.	1.7	2
59	Light-Emitting Electrochemical Cells: Triethylene Glycol Substituted Diketopyrrolopyrrole and Isoindigo Dye Based Donor-Acceptor Copolymers for Organic Light-Emitting Electrochemical Cells and Transistors ( <i>Adv. Electron. Mater.</i> 5/2020). <i>Advanced Electronic Materials</i> , 2020, 6, 2070025.	2.6	1