Krishna Feron

List of Publications by Year in Descending Order

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	Low-Temperature CVD-Grown Graphene Thin Films as Transparent Electrode for Organic Photovoltaics. *Coatings*, **2022**, 12, 681	2.9	1
57	Advanced Control of Drug Delivery for Health Applications via Highly Biocompatible Self-Assembled Organic Nanoparticles.. *ACS Applied Bio Materials*, **2021**, 4, 6338-6350	4.1	0
56	Short Alkyl Chain Engineering Modulation on Naphthalene Flanked Diketopyrrolopyrrole toward High-Performance Single Crystal Transistors and Organic Thin Film Displays. *Advanced Electronic Materials*, **2021**, 7, 2000804	6.4	11
55	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	3.8	5
54	Deducing transport properties of mobile vacancies from perovskite solar cell characteristics. *Journal of Applied Physics*, **2020**, 128, 184501	2.5	8
53	Diketopyrrolopyrrole-Based Dual-Acceptor Copolymers to Realize Tunable Charge Carrier Polarity of Organic Field-Effect Transistors and High-Performance Nonvolatile Ambipolar Flash Memories. *ACS Applied Electronic Materials*, **2020**, 2, 1609-1618	4	9
52	Synergistic Use of Pyridine and Selenophene in a Diketopyrrolopyrrole-Based Conjugated Polymer Enhances the Electron Mobility in Organic Transistors. *Advanced Functional Materials*, **2020**, 30, 2000489	15.6	20
51	Triethylene Glycol Substituted Diketopyrrolopyrrole- and Isoindigo-Dye Based Donor–Acceptor Copolymers for Organic Light-Emitting Electrochemical Cells and Transistors. *Advanced Electronic Materials*, **2020**, 6, 1901414	6.4	11
50	Biowaste-Derived, Self-Organized Arrays of High-Performance 2D Carbon Emitters for Organic Light-Emitting Diodes. *Advanced Materials*, **2020**, 32, e1906176	24	15
49	All-Rounder Low-Cost Dopant-Free D-A-D Hole-Transporting Materials for Efficient Indoor and Outdoor Performance of Perovskite Solar Cells. *Advanced Electronic Materials*, **2020**, 6, 1900884	6.4	35
48	Role of Morphology of Surfactant-Free Nanoparticles in Organic Photovoltaics. *Journal of Electronic Materials*, **2020**, 49, 4168-4179	1.9	4
47	Versatile nature of anthanthrone based polymers as active multifunctional semiconductors for various organic electronic devices. *Materials Advances*, **2020**, 1, 3428-3438	3.3	3
46	Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells. *Organic Electronics*, **2020**, 77, 105524	3.5	9
45	Tuning the Charge Carrier Polarity of Organic Transistors by Varying the Electron Affinity of the Flanked Units in Diketopyrrolopyrrole-Based Copolymers. *Advanced Functional Materials*, **2020**, 30, 1907452	15.6	27
44	A nuanced approach for assessing OPV materials for large scale applications. *Sustainable Energy and Fuels*, **2020**, 4, 940-949	5.8	8
43	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	2.4	6
42	Boosting inverted perovskite solar cell performance by using 9,9-bis(4-diphenylaminophenyl)fluorene functionalized with triphenylamine as a dopant-free hole transporting material. *Journal of Materials Chemistry A*, **2019**, 7, 12507-12517	13	52

41	The role of surface energy control in organic photovoltaics based on solar paints. *Journal of Materials Chemistry A*, **2019**, 7, 9202-9214	13	13
40	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	3.5	5
39	Dopant-free novel hole-transporting materials based on quinacridone dye for high-performance and humidity-stable mesoporous perovskite solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 5315-5323	13	55
38	Role of Stabilizing Surfactants on Capacitance, Charge, and Ion Transport in Organic Nanoparticle-Based Electronic Devices. *ACS Applied Materials & Interfaces*, **2019**, 11, 10074-10088	9.5	20
37	Building intermixed donor-acceptor architectures for water-processable organic photovoltaics. *Physical Chemistry Chemical Physics*, **2019**, 21, 5705-5715	3.6	18
36	A building-block approach to the development of an equivalent circuit model for organic photovoltaic cells. *Organic Electronics*, **2018**, 58, 207-215	3.5	9
35	Tunable Crystallization and Nucleation of Planar CHNHPbI through Solvent-Modified Interdiffusion. *ACS Applied Materials & Interfaces*, **2018**, 10, 14673-14683	9.5	13
34	Molecular Engineering Using an Anthanthrone Dye for Low-Cost Hole Transport Materials: A Strategy for Dopant-Free, High-Efficiency, and Stable Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1703007	21.8	115
33	Diketopyrrolopyrrole based organic semiconductors with different numbers of thiophene units: symmetry tuning effect on electronic devices. *New Journal of Chemistry*, **2018**, 42, 4017-4028	3.6	18
32	One step facile synthesis of a novel anthanthrone dye-based, dopant-free hole transporting material for efficient and stable perovskite solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 3699-3708	7.1	48
31	Acene-based organic semiconductors for organic light-emitting diodes and perovskite solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 9017-9029	7.1	41
30	Engineering Two-Phase and Three-Phase Microstructures from Water-Based Dispersions of Nanoparticles for Eco-Friendly Polymer Solar Cell Applications. *Chemistry of Materials*, **2018**, 30, 6521-6531	9.6	23
29	Organic Bioelectronics: Materials and Biocompatibility. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	65
28	Naphthalene flanked diketopyrrolopyrrole based organic semiconductors for high performance organic field effect transistors. *New Journal of Chemistry*, **2018**, 42, 12374-12385	3.6	20
27	The origin of performance limitations in miniemulsion nanoparticulate organic photovoltaic devices. *Solar Energy Materials and Solar Cells*, **2018**, 175, 77-88	6.4	33
26	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.. *RSC Advances*, **2018**, 8, 38919-38928	3.7	2
25	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	3	7
24	9-Fluorenone and 9,10-anthraquinone potential fused aromatic building blocks to synthesize electron acceptors for organic solar cells. *New Journal of Chemistry*, **2017**, 41, 2899-2909	3.6	17

23	Energy level engineering in ternary organic solar cells: Evaluating exciton dissociation at organic semiconductor interfaces. *Applied Physics Letters*, **2017**, 110, 133301	3.4	4
22	Switched Photocurrent on Tin Sulfide-Based Nanoplate Photoelectrodes. *ChemSusChem*, **2017**, 10, 670-674	8.5	17
21	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	3.6	9
20	Thienylvinylenethienyl and Naphthalene Core Substituted with Triphenylamines: Highly Efficient Hole Transporting Materials and Their Comparative Study for Inverted Perovskite Solar Cells. *Solar Rrl*, **2017**, 1, 1700105	7.1	49
19	Low-Cost Alternative High-Performance Hole-Transport Material for Perovskite Solar Cells and Its Comparative Study with Conventional SPIRO-OMeTAD. *Advanced Electronic Materials*, **2017**, 3, 1700139	6.4	43
18	Utilizing Energy Transfer in Binary and Ternary Bulk Heterojunction Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 20928-37	9.5	25
17	A low-cost mixed fullerene acceptor blend for printed electronics. *Journal of Materials Chemistry A*, **2016**, 4, 10274-10281	13	27
16	Matrix assisted low temperature growth of graphene. *Carbon*, **2016**, 107, 325-331	10.4	10
15	Fully roll-to-roll prepared organic solar cells in normal geometry with a sputter-coated aluminium top-electrode. *Solar Energy Materials and Solar Cells*, **2016**, 149, 103-109	6.4	28
14	Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. *Journal of Materials Chemistry C*, **2016**, 4, 1009-1018	7.1	78
13	Nano-pathways: Bridging the divide between water-processable nanoparticulate and bulk heterojunction organic photovoltaics. *Nano Energy*, **2016**, 19, 495-510	17.1	57
12	Comparison of inorganic electron transport layers in fully roll-to-roll coated/printed organic photovoltaics in normal geometry. *Journal of Materials Chemistry A*, **2016**, 4, 15986-15996	13	19
11	Highly compact and uniform CH 3 NH 3 Sn 0.5 Pb 0.5 I 3 films for efficient panchromatic planar perovskite solar cells. *Science Bulletin*, **2016**, 61, 1558-1562	10.6	23
10	Probing the origin of photocurrent in nanoparticulate organic photovoltaics. *Solar Energy Materials and Solar Cells*, **2015**, 140, 412-421	6.4	31
9	Comparative degradation and regeneration of polymer solar cells with different cathodes. *ACS Applied Materials & Interfaces*, **2014**, 6, 5281-9	9.5	15
8	A dynamic Monte Carlo study of anomalous current voltage behaviour in organic solar cells. *Journal of Applied Physics*, **2014**, 116, 214509	2.5	2
7	The effect of calcium-induced fullerene migration on the performance of thermally stable nanoparticle organic solar cells. *Journal of Applied Physics*, **2014**, 116, 124502	2.5	5
6	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	2.5	6

5	Enhanced regeneration of degraded polymer solar cells by thermal annealing. *Applied Physics Letters*, **2014**, 104, 193905	3.4	14
4	Solution processable interface materials for nanoparticulate organic photovoltaic devices. *Applied Physics Letters*, **2014**, 104, 043902	3.4	6
3	Spatially resolved photocurrent measurements of organic solar cells: Tracking water ingress at edges and pinholes. *Solar Energy Materials and Solar Cells*, **2013**, 109, 169-177	6.4	48
2	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, 193306	3.4	15
1	Organic solar cells: understanding the role of Förster resonance energy transfer. *International Journal of Molecular Sciences*, **2012**, 13, 17019-47	6.3	92