Panagiotis E Keivanidis

List of Publications by Year
in descending order

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57 papers	2,823 citations	201674 27 h-index	168389 53 g-index
60 all docs	60 docs citations	60 times ranked	4140 citing authors

#	Article	IF	Citations
1	Electron Transporting Perylene Diimide-Based Random Terpolymers with Variable Co-Monomer Feed Ratio: A Route to All-Polymer-Based Photodiodes. Macromolecules, 2022, 55, 672-683.	4.8	7
2	Low-power supralinear photocurrent generation via excited state fusion in single-component nanostructured organic photodetectors. Journal of Materials Chemistry C, 2022, 10, 7575-7585.	5.5	4
3	Excimer formation effects and trap-assisted charge recombination loss channels in organic solar cells of perylene diimide dimer acceptors. Journal of Materials Chemistry C, 2020, 8, 1686-1696.	5.5	19
4	Afterglow Effects as a Tool to Screen Emissive Nongeminate Charge Recombination Processes in Organic Photovoltaic Composites. ACS Applied Materials & Interfaces, 2020, 12, 2695-2707.	8.0	5
5	Impact of molecular conformation on triplet-fusion induced photon energy up-conversion in the absence of exothermic triplet energy transfer. Journal of Materials Chemistry C, 2019, 7, 3634-3643.	5.5	7
6	Impact of Structural Polymorphs on Charge Collection and Nongeminate Recombination in Organic Photovoltaic Devices. Journal of Physical Chemistry C, 2018, 122, 29141-29149.	3.1	5
7	All-Solution-Based Aggregation Control in Solid-State Photon Upconverting Organic Model Composites. ACS Applied Materials & Interfaces, 2017, 9, 845-857.	8.0	25
8	Control of the molecular geometry and nanoscale morphology in perylene diimide based bulk heterojunctions enables an efficient non-fullerene organic solar cell. Journal of Materials Chemistry A, 2017, 5, 210-220.	10.3	78
9	Enhancement of the Power Conversion Efficiency in Organic Photovoltaics by Unveiling the Appropriate Polymer Backbone Enlargement Approach. Advanced Functional Materials, 2016, 26, 1840-1848.	14.9	28
10	Understanding the Light Soaking Effects in Inverted Organic Solar Cells Functionalized with Conjugated Macroelectrolyte Electronâ€Collecting Interlayers. Advanced Science, 2016, 3, 1500245.	11.2	35
11	Charge transport control via polymer polymorph modulation in ternary organic photovoltaic composites. Journal of Materials Chemistry A, 2016, 4, 1195-1201.	10.3	14
12	Synthesis and characterization of lightâ€absorbing cyclopentadithiopheneâ€based donorâ€“acceptor copolymers. Polymer International, 2016, 65, 57-65.	3.1	21
13	The impact of thienothiophene isomeric structures on the optoelectronic properties and photovoltaic performance in quinoxaline based donorâ€“acceptor copolymers. Polymer Chemistry, 2015, 6, 3098-3109.	3.9	24
14	Elucidating the Impact of Molecular Packing and Device Architecture on the Performance of Nanostructured Perylene Diimide Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 8687-8698.	8.0	26
15	Determining the Efficiency of Fast Ultrahigh-density Writing of Low-Conductivity Patterns on Semiconducting Polymers. Materials Research Society Symposia Proceedings, 2015, 1729, 125-130.	0.1	1
16	Charge versus Energy Transfer Effects in High-Performance Perylene Diimide Photovoltaic Blend Films. ACS Applied Materials & Interfaces, 2015, 7, 24876-24886.	8.0	28
17	Well-Defined Star-Shaped Conjugated Macroelectrolytes as Efficient Electron-Collecting Interlayer for Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 452-459.	8.0	38
18	On the role of aggregation effects in the performance of perylene-diimide based solar cells. Organic Electronics, 2014, 15, 1347-1361.	2.6	60

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19	Triple bulk heterojunctions as means for recovering the microstructure of photoactive layers in organic solar cell devices. Solar Energy Materials and Solar Cells, 2014, 120, 37-47.	6.2	14
20	Phosphorimetric Characterization of Solution-Processed Polymeric Oxygen Barriers for the Encapsulation of Organic Electronics. Journal of Physical Chemistry C, 2014, 118, 2361-2369.	3.1	11
21	Carrier motion in as-spun and annealed P3HT:PCBM blends revealed by ultrafast optical electric field probing and Monte Carlo simulations. Physical Chemistry Chemical Physics, 2014, 16, 2686.	2.8	25
22	Fullerene-free organic solar cells with an efficiency of 3.7% based on a low-cost geometrically planar perylene diimide monomer. Journal of Materials Chemistry A, 2014, 2, 14348-14353.	10.3	94
23	On the role of temperature in the triplet-fusion induced low-energy photon up-converted delayed luminescence of a solid state composite. , 2014, , .		0
24	Tripletâ€“Triplet Annihilation-Induced Up-Converted Delayed Luminescence in Solid-State Organic Composites: Monitoring Low-Energy Photon Up-Conversion at Low Temperatures. Journal of Physical Chemistry C, 2014, 118, 14256-14265.	3.1	42
25	X-ray photoemission spectroscopy study of vertical phase separation in F8BT:PDI/ITO films for photovoltaic applications. , 2014, , .		1
26	Visualizing charge separation in bulk heterojunction organic solar cells. Nature Communications, 2013, 4, 2334.	12.8	158
27	Fast ultrahigh-density writing of low-conductivity patterns on semiconducting polymers. Nature Communications, 2013, 4, 2668.	12.8	13
28	Effect of Local and Global Structural Order on the Performance of Perylene Diimide Excimeric Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 11844-11857.	8.0	81
29	Improving the layer morphology of solution-processed perylene diimide organic solar cells with the use of a polymeric interlayer. Organic Photonics and Photovoltaics, 2013, 1, .	1.3	7
30	Transient absorption spectroscopic techniques for organic photovoltaics: tracking the photogenerated charges. , 2012, , .		0
31	Gravure printing inverted organic solar cells: The influence of ink properties on film quality and device performance. Solar Energy Materials and Solar Cells, 2012, 105, 77-85.	6.2	91
32	Correlating Emissive Nonâ€Geminate Charge Recombination with Photocurrent Generation Efficiency in Polymer/Perylene Diimide Organic Photovoltaic Blend Films. Advanced Functional Materials, 2012, 22, 2318-2326.	14.9	28
33	Ultrafast Transient Optical Studies of Charge Pair Generation and Recombination in Poly-3-Hexylthiophene(P3ht):[6,6]Phenyl C61 Butyric Methyl Acid Ester (PCBM) Blend Films. Journal of Physical Chemistry B, 2011, 115, 15174-15180.	2.6	29
34	Electron-Exchange-Assisted Photon Energy Up-Conversion in Thin Films of Ï€-Conjugated Polymeric Composites. Journal of Physical Chemistry Letters, 2011, 2, 1893-1899.	4.6	24
35	Effect of multiple adduct fullerenes on charge generation and transport in photovoltaic blends with poly(3â€hexylthiopheneâ€2,5â€diyl). Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 45-51.	2.1	59
36	Roomâ€Temperature Phase Demixing in Bulk Heterojunction Layers of Solutionâ€Processed Organic Photodetectors: the Effect of Active Layer Ageing on the Device Electroâ€optical Properties. Advanced Functional Materials, 2011, 21, 1355-1363.	14.9	16

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37	Gravure printing for three subsequent solar cell layers of inverted structures on flexible substrates. Solar Energy Materials and Solar Cells, 2011, 95, 731-734.	6.2	115
38	The Dependence of Device Dark Current on the Activeâ€Layer Morphology of Solutionâ€Processed Organic Photodetectors. Advanced Functional Materials, 2010, 20, 3895-3903.	14.9	85
39	Delayed Luminescence Spectroscopy of Organic Photovoltaic Binary Blend Films: Probing the Emissive Nonâ€geminate Charge Recombination. Advanced Materials, 2010, 22, 5183-5187.	21.0	24
40	Dependence of Charge Separation Efficiency on Film Microstructure in Poly(3-hexylthiophene-2,5-diyl):[6,6]-Phenyl-C₆₁ Butyric Acid Methyl Ester Blend Films. Journal of Physical Chemistry Letters, 2010, 1, 734-738.	4.6	102
41	All-solution based device engineering of multilayer polymeric photodiodes: Minimizing dark current. Applied Physics Letters, 2009, 94, .	3.3	63
42	Inherent Photon Energy Recycling Effects in the Upâ€Converted Delayed Luminescence Dynamics of Poly(fluorene)â€“Pt^{II}octaethyl Porphyrin Blends. ChemPhysChem, 2009, 10, 2316-2326.	2.1	40
43	Perylene Tetracarboxydiimide as an Electron Acceptor in Organic Solar Cells: A Study of Charge Generation and Recombination. Journal of Physical Chemistry C, 2009, 113, 21225-21232.	3.1	140
44	Improved Performance of Perylene-Based Photovoltaic Cells Using Polyisocyanopeptide Arrays. Macromolecules, 2009, 42, 2023-2030.	4.8	78
45	Effects of Layer Thickness and Annealing of PEDOT:PSS Layers in Organic Photodetectors. Macromolecules, 2009, 42, 6741-6747.	4.8	253
46	Time-resolved photoluminescence study of low-energy emission mechanisms in oligofluorene and polyfluorene films. Polymer, 2008, 49, 5700-5704.	3.8	15
47	Intermolecular Interactions of Perylene diimides in Photovoltaic Blends of Fluorene Copolymers: Disorder Effects on Photophysical Properties, Film Morphology and Device Efficiency. Advanced Functional Materials, 2008, 18, 3189-3202.	14.9	87
48	X-ray stability and response of polymeric photodiodes for imaging applications. Applied Physics Letters, 2008, 92, 023304.	3.3	63
49	Organic semiconductor devices for X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 774-777.	1.6	18
50	Thermally Stable Blue Emitting Terfluorene Block Copolymers. Journal of Physical Chemistry B, 2006, 110, 4657-4662.	2.6	17
51	Photophysical Characterization of Light-Emitting Poly(indenofluorene)s. ChemPhysChem, 2005, 6, 1650-1660.	2.1	38
52	Enhanced Operational Stability of the Up-Conversion Fluorescence in Films of Palladium-Porphyrin End-Capped Poly(pentaphenylene). ChemPhysChem, 2005, 6, 1250-1253.	2.1	56
53	Upconversion photoluminescence in poly(ladder-type-pentaphenylene) doped with metal (II)-octaethyl porphyrins. Applied Physics Letters, 2005, 86, 061904.	3.3	78
54	Low-threshold amplified spontaneous emission in thin films of poly(tetraarylindenofluorene). Applied Physics Letters, 2005, 87, 261917.	3.3	18

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55	Influence of Dendronization on Spectral Diffusion and Aggregation in Conjugated Polymers. Advanced Functional Materials, 2003, 13, 154-158.	14.9	68
56	Up-Conversion Photoluminescence in Polyfluorene Doped with Metal(II)â€“Octaethyl Porphyrins. Advanced Materials, 2003, 15, 2095-2098.	21.0	147
57	TiO2(Fe3+) nanostructured thin films with antibacterial properties. Thin Solid Films, 2003, 433, 186-190.	1.8	198