

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	Effects of Layer Thickness and Annealing of PEDOT:PSS Layers in Organic Photodetectors. <i>Macromolecules</i> , 2009, 42, 6741-6747.	4.8	253
2	TiO ₂ (Fe ³⁺) nanostructured thin films with antibacterial properties. <i>Thin Solid Films</i> , 2003, 433, 186-190.	1.8	198
3	Visualizing charge separation in bulk heterojunction organic solar cells. <i>Nature Communications</i> , 2013, 4, 2334.	12.8	158
4	Up-Conversion Photoluminescence in Polyfluorene Doped with Metal(II)â€œOctaethyl Porphyrins. <i>Advanced Materials</i> , 2003, 15, 2095-2098.	21.0	147
5	Perylene Tetracarboxydiimide as an Electron Acceptor in Organic Solar Cells: A Study of Charge Generation and Recombination. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21225-21232.	3.1	140
6	Gravure printing for three subsequent solar cell layers of inverted structures on flexible substrates. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 731-734.	6.2	115
7	Dependence of Charge Separation Efficiency on Film Microstructure in Poly(3-hexylthiophene-2,5-diyl):[6,6]-Phenyl-C ₆₁ Butyric Acid Methyl Ester Blend Films. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 734-738.	4.6	102
8	Fullerene-free organic solar cells with an efficiency of 3.7% based on a low-cost geometrically planar perylene diimide monomer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14348-14353.	10.3	94
9	Gravure printing inverted organic solar cells: The influence of ink properties on film quality and device performance. <i>Solar Energy Materials and Solar Cells</i> , 2012, 105, 77-85.	6.2	91
10	Intermolecular Interactions of Perylene diimides in Photovoltaic Blends of Fluorene Copolymers: Disorder Effects on Photophysical Properties, Film Morphology and Device Efficiency. <i>Advanced Functional Materials</i> , 2008, 18, 3189-3202.	14.9	87
11	The Dependence of Device Dark Current on the Activeâ€œLayer Morphology of Solutionâ€œProcessed Organic Photodetectors. <i>Advanced Functional Materials</i> , 2010, 20, 3895-3903.	14.9	85
12	Effect of Local and Global Structural Order on the Performance of Perylene Diimide Excimeric Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11844-11857.	8.0	81
13	Upconversion photoluminescence in poly(ladder-type-pentaphenylene) doped with metal (II)-octaethyl porphyrins. <i>Applied Physics Letters</i> , 2005, 86, 061904.	3.3	78
14	Improved Performance of Perylene-Based Photovoltaic Cells Using Polyisocyanopeptide Arrays. <i>Macromolecules</i> , 2009, 42, 2023-2030.	4.8	78
15	Control of the molecular geometry and nanoscale morphology in perylene diimide based bulk heterojunctions enables an efficient non-fullerene organic solar cell. <i>Journal of Materials Chemistry A</i> , 2017, 5, 210-220.	10.3	78
16	Influence of Dendronization on Spectral Diffusion and Aggregation in Conjugated Polymers. <i>Advanced Functional Materials</i> , 2003, 13, 154-158.	14.9	68
17	X-ray stability and response of polymeric photodiodes for imaging applications. <i>Applied Physics Letters</i> , 2008, 92, 023304.	3.3	63
18	All-solution based device engineering of multilayer polymeric photodiodes: Minimizing dark current. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	63

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19	On the role of aggregation effects in the performance of perylene-diimide based solar cells. <i>Organic Electronics</i> , 2014, 15, 1347-1361.	2.6	60
20	Effect of multiple adduct fullerenes on charge generation and transport in photovoltaic blends with poly(3-hexylthiophene-2,5-diyl). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 45-51.	2.1	59
21	Enhanced Operational Stability of the Up-Conversion Fluorescence in Films of Palladium-Porphyrin End-Capped Poly(pentaphenylene). <i>ChemPhysChem</i> , 2005, 6, 1250-1253.	2.1	56
22	Triplet-Triplet Annihilation-Induced Up-Converted Delayed Luminescence in Solid-State Organic Composites: Monitoring Low-Energy Photon Up-Conversion at Low Temperatures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14256-14265.	3.1	42
23	Inherent Photon Energy Recycling Effects in the Up-Converted Delayed Luminescence Dynamics of Poly(fluorene)-Pt ^{II} octaethyl Porphyrin Blends. <i>ChemPhysChem</i> , 2009, 10, 2316-2326.	2.1	40
24	Photophysical Characterization of Light-Emitting Poly(indenofluorene)s. <i>ChemPhysChem</i> , 2005, 6, 1650-1660.	2.1	38
25	Well-Defined Star-Shaped Conjugated Macroelectrolytes as Efficient Electron-Collecting Interlayer for Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 452-459.	8.0	38
26	Understanding the Light Soaking Effects in Inverted Organic Solar Cells Functionalized with Conjugated Macroelectrolyte Electron-Collecting Interlayers. <i>Advanced Science</i> , 2016, 3, 1500245.	11.2	35
27	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. <i>Journal of Physical Chemistry B</i> , 2011, 115, 15174-15180.	2.6	29
28	Correlating Emissive Non-Geminate Charge Recombination with Photocurrent Generation Efficiency in Polymer/Perylene Diimide Organic Photovoltaic Blend Films. <i>Advanced Functional Materials</i> , 2012, 22, 2318-2326.	14.9	28
29	Charge versus Energy Transfer Effects in High-Performance Perylene Diimide Photovoltaic Blend Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24876-24886.	8.0	28
30	Enhancement of the Power Conversion Efficiency in Organic Photovoltaics by Unveiling the Appropriate Polymer Backbone Enlargement Approach. <i>Advanced Functional Materials</i> , 2016, 26, 1840-1848.	14.9	28
31	Elucidating the Impact of Molecular Packing and Device Architecture on the Performance of Nanostructured Perylene Diimide Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8687-8698.	8.0	26
32	Carrier motion in as-spun and annealed P3HT:PCBM blends revealed by ultrafast optical electric field probing and Monte Carlo simulations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2686.	2.8	25
33	All-Solution-Based Aggregation Control in Solid-State Photon Upconverting Organic Model Composites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 845-857.	8.0	25
34	Delayed Luminescence Spectroscopy of Organic Photovoltaic Binary Blend Films: Probing the Emissive Non-Geminate Charge Recombination. <i>Advanced Materials</i> , 2010, 22, 5183-5187.	21.0	24
35	Electron-Exchange-Assisted Photon Energy Up-Conversion in Thin Films of π -Conjugated Polymeric Composites. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1893-1899.	4.6	24
36	The impact of thienothiophene isomeric structures on the optoelectronic properties and photovoltaic performance in quinoxaline based donor-acceptor copolymers. <i>Polymer Chemistry</i> , 2015, 6, 3098-3109.	3.9	24

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37	Synthesis and characterization of light-absorbing cyclopentadithiophene-based donor-acceptor copolymers. <i>Polymer International</i> , 2016, 65, 57-65.	3.1	21
38	Excimer formation effects and trap-assisted charge recombination loss channels in organic solar cells of perylene diimide dimer acceptors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1686-1696.	5.5	19
39	Low-threshold amplified spontaneous emission in thin films of poly(tetraaryliindenofluorene). <i>Applied Physics Letters</i> , 2005, 87, 261917.	3.3	18
40	Organic semiconductor devices for X-ray imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 580, 774-777.	1.6	18
41	Thermally Stable Blue Emitting Terfluorene Block Copolymers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4657-4662.	2.6	17
42	Room-Temperature Phase Demixing in Bulk Heterojunction Layers of Solution-Processed Organic Photodetectors: the Effect of Active Layer Ageing on the Device Electro-optical Properties. <i>Advanced Functional Materials</i> , 2011, 21, 1355-1363.	14.9	16
43	Time-resolved photoluminescence study of low-energy emission mechanisms in oligofluorene and polyfluorene films. <i>Polymer</i> , 2008, 49, 5700-5704.	3.8	15
44	Triple bulk heterojunctions as means for recovering the microstructure of photoactive layers in organic solar cell devices. <i>Solar Energy Materials and Solar Cells</i> , 2014, 120, 37-47.	6.2	14
45	Charge transport control via polymer polymorph modulation in ternary organic photovoltaic composites. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1195-1201.	10.3	14
46	Fast ultrahigh-density writing of low-conductivity patterns on semiconducting polymers. <i>Nature Communications</i> , 2013, 4, 2668.	12.8	13
47	Phosphorimetric Characterization of Solution-Processed Polymeric Oxygen Barriers for the Encapsulation of Organic Electronics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2361-2369.	3.1	11
48	Improving the layer morphology of solution-processed perylene diimide organic solar cells with the use of a polymeric interlayer. <i>Organic Photonics and Photovoltaics</i> , 2013, 1, .	1.3	7
49	Impact of molecular conformation on triplet-fusion induced photon energy up-conversion in the absence of exothermic triplet energy transfer. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3634-3643.	5.5	7
50	Electron Transporting Perylene Diimide-Based Random Terpolymers with Variable Co-Monomer Feed Ratio: A Route to All-Polymer-Based Photodiodes. <i>Macromolecules</i> , 2022, 55, 672-683.	4.8	7
51	Impact of Structural Polymorphs on Charge Collection and Nongeminate Recombination in Organic Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29141-29149.	3.1	5
52	Afterglow Effects as a Tool to Screen Emissive Nongeminate Charge Recombination Processes in Organic Photovoltaic Composites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2695-2707.	8.0	5
53	Low-power supralinear photocurrent generation via excited state fusion in single-component nanostructured organic photodetectors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7575-7585.	5.5	4
54	X-ray photoemission spectroscopy study of vertical phase separation in F8BT:PDI/ITO films for photovoltaic applications. , 2014, , .		1

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55	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
56	Transient absorption spectroscopic techniques for organic photovoltaics: tracking the photogenerated charges. , 2012, , .		0
57	On the role of temperature in the triplet-fusion induced low-energy photon up-converted delayed luminescence of a solid state composite. , 2014, , .		0