

Almantas Pivrikas

List of Publications by Year in descending order

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citations

172386

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79
all docs

79
docs citations

79
times ranked

4030
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of charge transport and recombination in polymer/fullerene organic solar cells. Progress in Photovoltaics: Research and Applications, 2007, 15, 677-696.	4.4	515
2	Bimolecular Recombination Coefficient as a Sensitive Testing Parameter for Low-Mobility Solar-Cell Materials. Physical Review Letters, 2005, 94, 176806.	2.9	297
3	Charge carrier mobility in regioregular poly(3-hexylthiophene) probed by transient conductivity techniques: A comparative study. Physical Review B, 2005, 71, .	1.1	249
4	Charge carrier mobility and lifetime versus composition of conjugated polymer/fullerene bulk-heterojunction solar cells. Organic Electronics, 2006, 7, 229-234.	1.4	161
5	Quantum Efficiency of Organic Solar Cells: Electro-Optical Cavity Considerations. ACS Photonics, 2014, 1, 173-181.	3.2	137
6	Balanced Carrier Mobilities: Not a Necessary Condition for High Efficiency Thin Organic Solar Cells as Determined by MIS-CELIV. Advanced Energy Materials, 2014, 4, 1300954.	10.2	129
7	Influence of processing additives to nano-morphology and efficiency of bulk-heterojunction solar cells: A comparative review. Solar Energy, 2011, 85, 1226-1237.	2.9	122
8	Anthracene Based Conjugated Polymers: Correlation between π - π -Stacking Ability, Photophysical Properties, Charge Carrier Mobility, and Photovoltaic Performance. Macromolecules, 2010, 43, 1261-1269.	2.2	117
9	Substituting the postproduction treatment for bulk-heterojunction solar cells using chemical additives. Organic Electronics, 2008, 9, 775-782.	1.4	95
10	Photocurrent drift distance in organic solar cells and photodetectors. Scientific Reports, 2015, 5, 9949.	1.6	81
11	Mobility and density relaxation of photogenerated charge carriers in organic materials. Current Applied Physics, 2004, 4, 534-538.	1.1	76
12	Nano-pathways: Bridging the divide between water-processable nanoparticulate and bulk heterojunction organic photovoltaics. Nano Energy, 2016, 19, 495-510.	8.2	75
13	Charge Carrier Lifetime and Recombination in Bulk Heterojunction Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1746-1758.	1.9	72
14	Colour selective organic photodetectors utilizing ketocyanine-cored dendrimers. Journal of Materials Chemistry C, 2013, 1, 3532.	2.7	69
15	Fluorene-Carbazole Dendrimers: Synthesis, Thermal, Photophysical and Electroluminescent Device Properties. Advanced Functional Materials, 2010, 20, 4152-4161.	7.8	67
16	The impact of hot charge carrier mobility on photocurrent losses in polymer-based solar cells. Scientific Reports, 2014, 4, 5695.	1.6	58
17	Doping-Induced Screening of the Built-in Field in Organic Solar Cells: Effect on Charge Transport and Recombination. Advanced Energy Materials, 2013, 3, 321-327.	10.2	54
18	Double injection as a technique to study charge carrier transport and recombination in bulk-heterojunction solar cells. Applied Physics Letters, 2005, 87, 222110.	1.5	45

#	ARTICLE	IF	CITATIONS
19	Improvement in carrier mobility and photovoltaic performance through random distribution of segments of linear and branched side chains. <i>Journal of Materials Chemistry</i> , 2010, 20, 9726.	6.7	43
20	Meyer-Roedel rule for charge carrier transport in fullerene devices: A comparative study. <i>Organic Electronics</i> , 2011, 12, 161-168.	1.4	42
21	Injected charge extraction by linearly increasing voltage for bimolecular recombination studies in organic solar cells. <i>Applied Physics Letters</i> , 2012, 101, 083306.	1.5	42
22	Mobility and photovoltaic performance studies on polymer blends: effects of side chains volume fraction. <i>Journal of Materials Chemistry</i> , 2011, 21, 2594-2600.	6.7	40
23	Measuring internal quantum efficiency to demonstrate hot exciton dissociation. <i>Nature Materials</i> , 2013, 12, 593-593.	13.3	37
24	Cost-Benefit Analysis of a Virtual Power Plant Including Solar PV, Flow Battery, Heat Pump, and Demand Management: A Western Australian Case Study. <i>Energies</i> , 2020, 13, 2614.	1.6	37
25	Advantage of suppressed non-Langevin recombination in low mobility organic solar cells. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	36
26	Controlled Ostwald ripening mediated grain growth for smooth perovskite morphology and enhanced device performance. <i>Solar Energy Materials and Solar Cells</i> , 2017, 167, 87-101.	3.0	36
27	Time-dependent Langevin-type bimolecular charge carrier recombination in regiorandom poly(3-hexylthiophene). <i>Synthetic Metals</i> , 2005, 155, 242-245.	2.1	34
28	Relation between charge carrier mobility and lifetime in organic photovoltaics. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	31
29	Charge and exciton dynamics of OLEDs under high voltage nanosecond pulse: towards injection lasing. <i>Nature Communications</i> , 2020, 11, 4310.	5.8	31
30	Effect of Styryl Side Groups on the Photophysical Properties and Hole Mobility of PPE~PPV Systems. <i>Macromolecules</i> , 2007, 40, 7786-7794.	2.2	29
31	A flexible n-type organic semiconductor for optoelectronics. <i>Journal of Materials Chemistry</i> , 2012, 22, 1800-1806.	6.7	28
32	Charge Transport without Recombination in Organic Solar Cells and Photodiodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26866-26874.	1.5	28
33	Revealing the Interplay between Charge Transport, Luminescence Efficiency, and Morphology in Organic Light-Emitting Diode Blends. <i>Advanced Functional Materials</i> , 2020, 30, 1907942.	7.8	28
34	Factors Influencing the Efficiency of Current Collection in Large Area, Monolithic Organic Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 1338-1342.	10.2	27
35	Double-injection current transients as a way of measuring transport in insulating organic films. <i>Journal of Applied Physics</i> , 2007, 101, 114505.	1.1	26
36	Investigation of new PPV-type polymeric materials containing fluorene and thiophene units and their application in organic solar cells. <i>Synthetic Metals</i> , 2010, 160, 1654-1661.	2.1	24

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37	Effect of shifting of aromatic rings on charge carrier mobility and photovoltaic response of anthracene and thiophene-containing MEH-PPE-PPVs. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 484-491.	3.0	23
38	A study of charge transport in a novel electroluminescent poly(phenylene vinylene-co-fluorenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	22
39	Three-dimensional carbazole-based dendrimers: model structures for studying charge transport in organic semiconductor films. <i>Polymer Chemistry</i> , 2013, 4, 916-925.	1.9	22
40	Development of novel processable electron accepting conjugated polymers containing fluoranthene units in the main chain. <i>Polymer</i> , 2009, 50, 5007-5015.	1.8	21
41	Molecular weight dependent bimolecular recombination in organic solar cells. <i>Journal of Chemical Physics</i> , 2014, 141, 054903.	1.2	21
42	Solution structure: defining polymer film morphology and optoelectronic device performance. <i>Journal of Materials Chemistry C</i> , 2014, 2, 71-77.	2.7	21
43	Electropolymerization and characterization of poly(N-methylaniline) and poly(N-butylaniline) in mixtures of aqueous and organic solvents. <i>Synthetic Metals</i> , 2006, 156, 549-557.	2.1	20
44	Measuring electron and hole mobilities in organic systems: charge selective CELIV. <i>Synthetic Metals</i> , 2015, 203, 187-191.	2.1	20
45	Utilisation of oxygen from water electrolysis – Assessment for wastewater treatment and aquaculture. <i>Chemical Engineering Science</i> , 2021, 246, 117008.	1.9	19
46	Effect of 2-D Delocalization on Charge Transport and Recombination in Bulk-Heterojunction Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1738-1745.	1.9	17
47	Dynamics of Charge Generation and Transport in Polymer-Fullerene Blends Elucidated Using a PhotoFET Architecture. <i>ACS Photonics</i> , 2014, 1, 114-120.	3.2	16
48	Charge transport in an organic light emitting diode material measured using metal-insulator-semiconductor charge extraction by linearly increasing voltage with parameter variation. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	16
49	Temperature dependent charge transport in organic field-effect transistors with the variation of both carrier concentration and electric field. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495105.	1.3	15
50	AMPS-1D modeling of P3HT/PCBM bulk-heterojunction solar cell. , 2011, , .		14
51	Quantum efficiency and initial transport of photogenerated charge carriers in π -conjugated polymers. <i>Synthetic Metals</i> , 2003, 139, 811-813.	2.1	13
52	Advanced Monitoring and Control System for Virtual Power Plants for Enabling Customer Engagement and Market Participation. <i>Energies</i> , 2021, 14, 1113.	1.6	12
53	Balanced Hole and Electron Transport in Ir(ppy) ₃ :TCTA Blends. <i>ACS Photonics</i> , 2021, 8, 2425-2430.	3.2	12
54	Time-independent charge carrier mobility in a model polymer:fullerene organic solar cell. <i>Organic Electronics</i> , 2015, 16, 205-211.	1.4	11

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55	Comparative study of bulk and interface transport in disordered fullerene films. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2656-2659.	0.7	10
56	Surface modified high rectification organic diode based on sulfonated poly(aniline). <i>Journal of Materials Chemistry</i> , 2006, 16, 3014-3020.	6.7	9
57	Current transients in organic field effect transistors. <i>Applied Physics Letters</i> , 2013, 102, 163306.	1.5	9
58	Photocarrier lifetime and recombination losses in photovoltaic systems. <i>Nature Photonics</i> , 2016, 10, 282-283.	15.6	9
59	Electric field and grain size dependence of Meyer-Rohrbaugh energy in C60 films. <i>Synthetic Metals</i> , 2011, 161, 1987-1990.	2.1	8
60	Light-emitting dendrimer:exciplex host-based solution-processed white organic light-emitting diodes. <i>Organic Electronics</i> , 2022, 100, 106389.	1.4	8
61	Consumer Engagement in Virtual Power Plants through Gamification. , 2020, , .		8
62	Morphology dependent electron transport in an n-type electron accepting small molecule for solar cell applications. <i>Applied Physics Letters</i> , 2011, 98, 083301.	1.5	7
63	Preserving the work function of Ultra-Violet-ozone treated indium tin oxide by triarylamine-based small molecule modification for solution-processed organic light-emitting diodes with increased external quantum efficiency. <i>Thin Solid Films</i> , 2021, 718, 138475.	0.8	6
64	Effect of Host Generation on the Luminescent and Charge Transporting Properties of Solution Processed OLEDs. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100820.	1.9	6
65	Charge Transport and Recombination in Bulk-Heterojunction Solar Cells. , 2006, , .		6
66	Effect of dendrimer surface groups on the properties of phosphorescent emissive films. <i>Organic Electronics</i> , 2021, 99, 106321.	1.4	4
67	Effect of dendron structure on the luminescent and charge transporting properties of solution processed dendrimer-based OLEDs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16033-16043.	2.7	4
68	The nature and role of trap states in a dendrimer-based organic field-effect transistor explosive sensor. <i>Applied Physics Letters</i> , 2013, 102, 243301.	1.5	3
69	A route to high gain photodetectors through suppressed recombination in disordered films. <i>Applied Physics Letters</i> , 2016, 109, 153301.	1.5	3
70	Emissive Material Optimization for Solution-Processed Exciplex OLEDs. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4757-4767.	2.0	3
71	Rivers of Light—Ternary Exciplex Blends for High Efficiency Solution-Processed Red Phosphorescent Organic Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2022, 32, 2108128.	7.8	3
72	Relation Between Nanomorphology and Performance of Polymer-Based Solar Cells. , 0, , .		1

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73	Large area monolithic organic solar cells. Proceedings of SPIE, 2012, , .	0.8	1
74	Thin film properties of triphenylamine-cored dendrimers: A molecular approach to control aggregation. Thin Solid Films, 2013, 548, 190-194.	0.8	1
75	Reply to 'Revisiting photocarrier lifetimes in photovoltaics'. Nature Photonics, 2016, 10, 563-563.	15.6	1
76	A Robust Bidding Strategy for VPPs Including Gamified Customer Engagement. , 2021, , .		1
77	Effect of PEDOT:PSS on the performance of solution-processed blue phosphorescent organic light-emitting diodes with an exciplex host. Materials Advances, 0, , .	2.6	0
78	A three-chamber electrochemical cell facilitated biogas upgrading and high-purity oxygen production. Journal of Applied Electrochemistry, 0, , 1.	1.5	0