

Almantas Pivrikas

List of Publications by Year in descending order

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78
papers

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citations

172386

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docs citations

79
times ranked

4030
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-emitting dendrimer:exciplex host-based solution-processed white organic light-emitting diodes. <i>Organic Electronics</i> , 2022, 100, 106389.	1.4	8
2	Rivers of Lightâ€”Ternary Exciplex Blends for High Efficiency Solutionâ€­Processed Red Phosphorescent Organic Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2022, 32, 2108128.	7.8	3
3	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
4	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
5	Balanced Hole and Electron Transport in Ir(ppy) ₃ :TCTA Blends. <i>ACS Photonics</i> , 2021, 8, 2425-2430.	3.2	12
6	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
7	Effect of dendrimer surface groups on the properties of phosphorescent emissive films. <i>Organic Electronics</i> , 2021, 99, 106321.	1.4	4
8	Utilisation of oxygen from water electrolysis â€” Assessment for wastewater treatment and aquaculture. <i>Chemical Engineering Science</i> , 2021, 246, 117008.	1.9	19
9	Emissive Material Optimization for Solution-Processed Exciplex OLEDs. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4757-4767.	2.0	3
10	A Robust Bidding Strategy for VPPs Including Gamified Customer Engagement. , 2021, , .		1
11	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
12	Revealing the Interplay between Charge Transport, Luminescence Efficiency, and Morphology in Organic Lightâ€­Emitting Diode Blends. <i>Advanced Functional Materials</i> , 2020, 30, 1907942.	7.8	28
13	Charge and exciton dynamics of OLEDs under high voltage nanosecond pulse: towards injection lasing. <i>Nature Communications</i> , 2020, 11, 4310.	5.8	31
14	Costâ€­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
15	Consumer Engagement in Virtual Power Plants through Gamification. , 2020, , .		8
16	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
17	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
18	A route to high gain photodetectors through suppressed recombination in disordered films. <i>Applied Physics Letters</i> , 2016, 109, 153301.	1.5	3

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19	Photocarrier lifetime and recombination losses in photovoltaic systems. <i>Nature Photonics</i> , 2016, 10, 282-283.	15.6	9
20	Reply to 'Revisiting photocarrier lifetimes in photovoltaics'. <i>Nature Photonics</i> , 2016, 10, 563-563.	15.6	1
21	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
22	Measuring electron and hole mobilities in organic systems: charge selective CELIV. <i>Synthetic Metals</i> , 2015, 203, 187-191.	2.1	20
23	Photocarrier drift distance in organic solar cells and photodetectors. <i>Scientific Reports</i> , 2015, 5, 9949.	1.6	81
24	Charge Transport without Recombination in Organic Solar Cells and Photodiodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26866-26874.	1.5	28
25	Time-independent charge carrier mobility in a model polymer:fullerene organic solar cell. <i>Organic Electronics</i> , 2015, 16, 205-211.	1.4	11
26	Balanced Carrier Mobilities: Not a Necessary Condition for High Efficiency Thin Organic Solar Cells as Determined by MIS-CELIV. <i>Advanced Energy Materials</i> , 2014, 4, 1300954.	10.2	129
27	Molecular weight dependent bimolecular recombination in organic solar cells. <i>Journal of Chemical Physics</i> , 2014, 141, 054903.	1.2	21
28	Solution structure: defining polymer film morphology and optoelectronic device performance. <i>Journal of Materials Chemistry C</i> , 2014, 2, 71-77.	2.7	21
29	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
30	Advantage of suppressed non-Langevin recombination in low mobility organic solar cells. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	36
31	Quantum Efficiency of Organic Solar Cells: Electro-Optical Cavity Considerations. <i>ACS Photonics</i> , 2014, 1, 173-181.	3.2	137
32	The impact of hot charge carrier mobility on photocurrent losses in polymer-based solar cells. <i>Scientific Reports</i> , 2014, 4, 5695.	1.6	58
33	Measuring internal quantum efficiency to demonstrate hot exciton dissociation. <i>Nature Materials</i> , 2013, 12, 593-593.	13.3	37
34	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
35	Colour selective organic photodetectors utilizing ketocyanine-cored dendrimers. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3532.	2.7	69
36	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

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37	Thin film properties of triphenylamine-cored dendrimers: A molecular approach to control aggregation. <i>Thin Solid Films</i> , 2013, 548, 190-194.	0.8	1
38	Doping-induced Screening of the Built-in Field in Organic Solar Cells: Effect on Charge Transport and Recombination. <i>Advanced Energy Materials</i> , 2013, 3, 321-327.	10.2	54
39	Current transients in organic field effect transistors. <i>Applied Physics Letters</i> , 2013, 102, 163306.	1.5	9
40	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
41	Relation between charge carrier mobility and lifetime in organic photovoltaics. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	31
42	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
43	Large area monolithic organic solar cells. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
44	A flexible n-type organic semiconductor for optoelectronics. <i>Journal of Materials Chemistry</i> , 2012, 22, 1800-1806.	6.7	28
45	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
46	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
47	Electric field and grain size dependence of Meyer-Neldel energy in C60 films. <i>Synthetic Metals</i> , 2011, 161, 1987-1990.	2.1	8
48	AMPS-1D modeling of P3HT/PCBM bulk-heterojunction solar cell. , 2011, , .		14
49	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
50	Meyer-Neldel rule for charge carrier transport in fullerene devices: A comparative study. <i>Organic Electronics</i> , 2011, 12, 161-168.	1.4	42
51	Influence of processing additives to nano-morphology and efficiency of bulk-heterojunction solar cells: A comparative review. <i>Solar Energy</i> , 2011, 85, 1226-1237.	2.9	122
52	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
53	Anthracene Based Conjugated Polymers: Correlation between π -Stacking Ability, Photophysical Properties, Charge Carrier Mobility, and Photovoltaic Performance. <i>Macromolecules</i> , 2010, 43, 1261-1269.	2.2	117
54	Charge Carrier Lifetime and Recombination in Bulk Heterojunction Solar Cells. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1746-1758.	1.9	72

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55	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
56	Fluorene- ϵ -Carbazole Dendrimers: Synthesis, Thermal, Photophysical and Electroluminescent Device Properties. <i>Advanced Functional Materials</i> , 2010, 20, 4152-4161.	7.8	67
57	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
58	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
59	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
60	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
61	Substituting the postproduction treatment for bulk-heterojunction solar cells using chemical additives. <i>Organic Electronics</i> , 2008, 9, 775-782.	1.4	95
62	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
63	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
64	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
65	A review of charge transport and recombination in polymer/fullerene organic solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2007, 15, 677-696.	4.4	515
66	Surface modified high rectification organic diode based on sulfonated poly(aniline). <i>Journal of Materials Chemistry</i> , 2006, 16, 3014-3020.	6.7	9
67	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
68	Charge carrier mobility and lifetime versus composition of conjugated polymer/fullerene bulk-heterojunction solar cells. <i>Organic Electronics</i> , 2006, 7, 229-234.	1.4	161
69	Charge Transport and Recombination in Bulk-Heterojunction Solar Cells. , 2006, , .		6
70	Charge carrier mobility in regioregular poly(3-hexylthiophene) probed by transient conductivity techniques: A comparative study. <i>Physical Review B</i> , 2005, 71, .	1.1	249
71	Double injection as a technique to study charge carrier transport and recombination in bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2005, 87, 222110.	1.5	45
72	Bimolecular Recombination Coefficient as a Sensitive Testing Parameter for Low-Mobility Solar-Cell Materials. <i>Physical Review Letters</i> , 2005, 94, 176806.	2.9	297

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73	Time-dependent Langevin-type bimolecular charge carrier recombination in regiorandom poly(3-hexylthiophene). <i>Synthetic Metals</i> , 2005, 155, 242-245.	2.1	34
74	Mobility and density relaxation of photogenerated charge carriers in organic materials. <i>Current Applied Physics</i> , 2004, 4, 534-538.	1.1	76
75	Quantum efficiency and initial transport of photogenerated charge carriers in π -conjugated polymers. <i>Synthetic Metals</i> , 2003, 139, 811-813.	2.1	13
76	Relation Between Nanomorphology and Performance of Polymer-Based Solar Cells. , 0, , .		1
77	Effect of PEDOT:PSS on the performance of solution-processed blue phosphorescent organic light-emitting diodes with an exciplex host. <i>Materials Advances</i> , 0, , .	2.6	0
78	A three-chamber electrochemical cell facilitated biogas upgrading and high-purity oxygen production. <i>Journal of Applied Electrochemistry</i> , 0, , 1.	1.5	0