

Arvydas E Ruseckas

List of Publications by Year in descending order

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75
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citations

147801

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76
all docs

76
docs citations

76
times ranked

5910
citing authors

#	ARTICLE	IF	CITATIONS
1	Exciton Diffusion Measurements in Poly(3-hexylthiophene). <i>Advanced Materials</i> , 2008, 20, 3516-3520.	21.0	768
2	Light Harvesting for Organic Photovoltaics. <i>Chemical Reviews</i> , 2017, 117, 796-837.	47.7	457
3	Determining the optimum morphology in high-performance polymer-fullerene organic photovoltaic cells. <i>Nature Communications</i> , 2013, 4, 2867.	12.8	307
4	Systematic study of exciton diffusion length in organic semiconductors by six experimental methods. <i>Materials Horizons</i> , 2014, 1, 280-285.	12.2	144
5	Photophysics of Fac-Tris(2-Phenylpyridine) Iridium(III) Cored Electroluminescent Dendrimers in Solution and Films. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1570-1577.	2.6	115
6	Triplet exciton diffusion in fac-tris(2-phenylpyridine) iridium(III)-cored electroluminescent dendrimers. <i>Applied Physics Letters</i> , 2005, 86, 091104.	3.3	114
7	Ultrafast luminescence in Ir(ppy) ₃ . <i>Chemical Physics Letters</i> , 2008, 450, 292-296.	2.6	96
8	Ultrafast Intersystem Crossing in a Red Phosphorescent Iridium Complex. <i>Journal of Physical Chemistry A</i> , 2009, 113, 2-4.	2.5	83
9	Ultrafast photogeneration of inter-chain charge pairs in polythiophene films. <i>Chemical Physics Letters</i> , 2000, 322, 136-142.	2.6	82
10	Exciton-Exciton Annihilation in Mixed-Phase Polyfluorene Films. <i>Advanced Functional Materials</i> , 2010, 20, 155-161.	14.9	78
11	The Impact of Driving Force on Electron Transfer Rates in Photovoltaic Donor-Acceptor Blends. <i>Advanced Materials</i> , 2015, 27, 2496-2500.	21.0	71
12	Enhancing Exciton Diffusion Length Provides New Opportunities for Organic Photovoltaics. <i>Matter</i> , 2020, 3, 341-354.	10.0	63
13	High-Gain Broadband Solid-State Optical Amplifier using a Semiconducting Copolymer. <i>Advanced Materials</i> , 2009, 21, 107-110.	21.0	53
14	Intra- and Interchain Luminescence in Amorphous and Semicrystalline Films of Phenyl-Substituted Polythiophene. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7624-7631.	2.6	52
15	Low Threshold Polariton Lasing from a Solution-Processed Organic Semiconductor in a Planar Microcavity. <i>Advanced Optical Materials</i> , 2019, 7, 1801791.	7.3	52
16	Broadly tunable deep blue laser based on a star-shaped oligofluorene truxene. <i>Synthetic Metals</i> , 2010, 160, 1397-1400.	3.9	48
17	A Shift from Diffusion Assisted to Energy Transfer Controlled Fluorescence Quenching in Polymer-Fullerene Photovoltaic Blends. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23931-23937.	3.1	45
18	Fluorescence Quenchers in Mixed Phase Polyfluorene Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17864-17867.	3.1	44

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19	A two-photon pumped polyfluorene laser. Applied Physics Letters, 2009, 94, .	3.3	43
20	Large Crystalline Domains and an Enhanced Exciton Diffusion Length Enable Efficient Organic Solar Cells. Chemistry of Materials, 2019, 31, 6548-6557.	6.7	42
21	Two-Photon Absorption and Lasing in First-Generation Bisfluorene Dendrimers. Advanced Materials, 2008, 20, 1940-1944.	21.0	40
22	Optical Excitations in Star-Shaped Fluorene Molecules. Journal of Physical Chemistry A, 2011, 115, 2913-2919.	2.5	40
23	Organic Semiconductor Optical Amplifiers. Proceedings of the IEEE, 2009, 97, 1637-1650.	21.3	38
24	Luminescence quenching by inter-chain aggregates in substituted polythiophenes. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 144, 3-12.	3.9	36
25	Molecular Weight Dependence of Exciton Diffusion in Poly(3-hexylthiophene). Advanced Energy Materials, 2013, 3, 1445-1453.	19.5	36
26	Effect of Annealing on Exciton Diffusion in a High Performance Small Molecule Organic Photovoltaic Material. ACS Applied Materials & Interfaces, 2017, 9, 14945-14952.	8.0	36
27	Conformational Effects on the Dynamics of Internal Conversion in Boron Dipyrromethene Dyes in Solution. Angewandte Chemie - International Edition, 2011, 50, 6634-6637.	13.8	35
28	Effect of exciton self-trapping and molecular conformation on photophysical properties of oligofluorenes. Journal of Chemical Physics, 2009, 131, 154906.	3.0	33
29	Dynamics of fluorescence depolarisation in star-shaped oligofluorene-truxene molecules. Physical Chemistry Chemical Physics, 2012, 14, 9176.	2.8	33
30	Long-range exciton diffusion in non-fullerene acceptors and coarse bulk heterojunctions enable highly efficient organic photovoltaics. Journal of Materials Chemistry A, 2020, 8, 15687-15694.	10.3	33
31	Distance dependence of excitation energy transfer between spacer-separated conjugated polymer films. Physical Review B, 2008, 78, .	3.2	32
32	Ultrafast Electronic Energy Transfer in an Orthogonal Molecular Dyad. Journal of Physical Chemistry Letters, 2017, 8, 1086-1092.	4.6	32
33	Efficient indoor p-i-n hybrid perovskite solar cells using low temperature solution processed NiO as hole extraction layers. Solar Energy Materials and Solar Cells, 2019, 201, 110071.	6.2	32
34	Hybrid Dendritic Molecules with Confined Chromophore Architecture to Tune Fluorescence Efficiency. Journal of Physical Chemistry B, 2008, 112, 16382-16392.	2.6	31
35	Vibrational Energy Flow Controls Internal Conversion in a Transition Metal Complex. Journal of Physical Chemistry A, 2010, 114, 8961-8968.	2.5	30
36	Efficient eco-friendly inverted quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 827-837.	10.3	30

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37	Thermally Activated Delayed Fluorescence Emitters with Intramolecular Proton Transfer for High Luminance Solution-Processed Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 15459-15474.	8.0	30
38	Probing the nanoscale phase separation in binary photovoltaic blends of poly(3-hexylthiophene) and methanofullerene by energy transfer. Dalton Transactions, 2009, , 10040.	3.3	27
39	Subpicosecond pulses from a gain-switched polymer distributed feedback laser. Applied Physics Letters, 2004, 85, 31-33.	3.3	26
40	Controlling Exciton Diffusion and Fullerene Distribution in Photovoltaic Blends by Side Chain Modification. Journal of Physical Chemistry Letters, 2015, 6, 3054-3060.	4.6	26
41	Synthesis and lanthanide-sensing behaviour of polyfluorene/1,10-phenanthroline copolymers. Synthetic Metals, 2009, 159, 583-588.	3.9	25
42	Ultrafast Electronic Energy Transfer Beyond the Weak Coupling Limit in a Proximal but Orthogonal Molecular Dyad. Journal of Physical Chemistry A, 2015, 119, 12665-12671.	2.5	24
43	Tuning crystalline ordering by annealing and additives to study its effect on exciton diffusion in a polyalkylthiophene copolymer. Physical Chemistry Chemical Physics, 2017, 19, 12441-12451.	2.8	23
44	Absorption cross-sections of hole polarons in glassy and β -phase polyfluorene. Chemical Physics Letters, 2013, 585, 133-137.	2.6	22
45	Charge Separation and Recombination in a Photoconducting Polymer with Electron Donor-Acceptor Complexes. Journal of Physical Chemistry B, 1998, 102, 7365-7370.	2.6	21
46	Laser characteristics of a family of benzene-cored star-shaped oligofluorenes. Semiconductor Science and Technology, 2012, 27, 094005.	2.0	21
47	Tailoring exciton diffusion and domain size in photovoltaic small molecules by annealing. Journal of Materials Chemistry C, 2019, 7, 7922-7928.	5.5	21
48	Conformations and Photophysics of a Stilbene Dimer. Journal of Physical Chemistry A, 2003, 107, 8029-8034.	2.5	19
49	Iridium Metal Complexes as an Unambiguous Probe of Intramolecular Vibrational Redistribution. Journal of the American Chemical Society, 2008, 130, 11842-11843.	13.7	18
50	Fluorescence Enhancement by Symmetry Breaking in a Twisted Triphenylene Derivative. Journal of Physical Chemistry A, 2010, 114, 13291-13295.	2.5	18
51	Hole delocalization as a driving force for charge pair dissociation in organic photovoltaics. Materials Horizons, 2019, 6, 1050-1056.	12.2	18
52	Subpicosecond Exciton Dynamics in Polyfluorene Films from Experiment and Microscopic Theory. Journal of Physical Chemistry C, 2015, 119, 9734-9744.	3.1	17
53	Influence of Blend Ratio and Processing Additive on Free Carrier Yield and Mobility in PTB7:PC ₇₁ BM Photovoltaic Solar Cells. Journal of Physical Chemistry C, 2016, 120, 9588-9594.	3.1	17
54	Engineered exciton diffusion length enhances device efficiency in small molecule photovoltaics. Journal of Materials Chemistry A, 2018, 6, 9445-9450.	10.3	17

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55	Charge Pair Dissociation and Recombination Dynamics in a P3HT-PC ₆₀ BM Bulk Heterojunction. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4166-4171.	4.6	16
56	BODIPY derivatives with near infra-red absorption as small molecule donors for bulk heterojunction solar cells. <i>RSC Advances</i> , 2019, 9, 15410-15423.	3.6	16
57	Dynamics of photoexcitation and stimulated optical emission in conjugated polymers: A multiscale quantum-chemistry and Maxwell-Bloch-equations approach. <i>Physical Review B</i> , 2010, 81, .	3.2	13
58	Side-Chain Influence on the Mass Density and Refractive Index of Polyfluorenes and Star-Shaped Oligofluorene Truxenes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22102-22107.	3.1	13
59	Self-trapping and excited state absorption in fluorene homo-polymer and copolymers with benzothiadiazole and tri-phenylamine. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21937-21948.	2.8	13
60	Exciton-Polaron Interactions in Polyfluorene Films with \hat{I}^2 -Phase. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9766-9772.	3.1	13
61	Exciton self-trapping in MEH-PPV films studied by ultrafast emission depolarization. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 263-266.	0.8	12
62	Low Threshold Room Temperature Polariton Lasing from Fluorene-Based Oligomers. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100028.	8.7	12
63	Barrierless Slow Dissociation of Photogenerated Charge Pairs in High-Performance Polymer-Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14060-14065.	3.1	11
64	Enhanced exciton harvesting in a planar heterojunction organic photovoltaic device by solvent vapor annealing. <i>Organic Electronics</i> , 2019, 70, 162-166.	2.6	11
65	Effect of a high boiling point additive on the morphology of solution-processed P3HT-fullerene blends. <i>Synthetic Metals</i> , 2016, 216, 23-30.	3.9	10
66	Interface limited hole extraction from methylammonium lead iodide films. <i>Materials Horizons</i> , 2020, 7, 943-948.	12.2	9
67	Improved efficiency of PbS quantum dot sensitized NiO photocathodes with naphthalene diimide electron acceptor bound to the surface of the nanocrystals. <i>Solar Energy Materials and Solar Cells</i> , 2018, 181, 71-76.	6.2	8
68	Nanoscale Heterogeneity in CsPbBr ₃ and CsPbBr ₃ :KI Perovskite Films Revealed by Cathodoluminescence Hyperspectral Imaging. <i>ACS Applied Energy Materials</i> , 2021, 4, 2707-2715.	5.1	8
69	Ultrafast Through-Space Electronic Energy Transfer in Molecular Dyads Built around Dynamic Spacer Units. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4437-4447.	2.5	7
70	Ecosystem engineer morphological traits and taxon identity shape biodiversity across the euphotic-mesophotic transition. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20211834.	2.6	7
71	Semiconducting polymer waveguides for end-fired ultra-fast optical amplifiers. <i>Optics Express</i> , 2009, 17, 21452.	3.4	6
72	Tuning the Exciton Diffusion Coefficient of Polyfluorene Based Semiconducting Polymers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800500.	2.4	4

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73	Geminate Pair Recombination in Sensitized Polymers (Monte-Carlo simulations). Molecular Crystals and Liquid Crystals, 1998, 324, 275-283.	0.3	3
74	Engineering highways for excitons. Joule, 2021, 5, 2762-2764.	24.0	2
75	Charge recombination in methylammonium lead triiodide at low temperatures. , 0, , .		0