

Arvydas E Ruseckas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1971216/publications.pdf>

Version: 2024-02-01

75
papers

3,899
citations

147786

31
h-index

123420

61
g-index

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

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

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

#	ARTICLE	IF	CITATIONS
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

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