

Yuriy Luponosov

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,991
citations

257450

24
h-index

265206

42
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91
all docs

91
docs citations

91
times ranked

2539
citing authors

#	ARTICLE	IF	CITATIONS
1	The effectiveness of agrotexile cover with organic photoluminophore in rooting cuttings of Hungarian lilac (<i>Syringa josikaea</i> J. Jacq. ex Rchb.). <i>BIO Web of Conferences</i> , 2022, 42, 01017.	0.2	0
2	In Situ Coupling Applied Voltage and Synchrotron Radiation: Operando Characterization of Transistors. <i>Nanoscale Research Letters</i> , 2022, 17, 22.	5.7	1
3	Design Principles for Organic Small Molecule Hole-Transport Materials for Perovskite Solar Cells: Film Morphology Matters. <i>ACS Applied Energy Materials</i> , 2022, 5, 5395-5403.	5.1	11
4	Synthesis and Aggregation Behavior of Novel Linear and Branched Oligothiophene-Containing Organosilicon Multipods. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	1
5	Luminescence of Agrotexiles Based on Red-Light-Emitting Organic Luminophore and Polypropylene Spunbond Enhances the Growth and Photosynthesis of Vegetable Plants. <i>Frontiers in Plant Science</i> , 2022, 13, 827679.	3.6	6
6	Highly electrochemically and thermally stable donor-acceptor triphenylamine-based hole-transporting homopolymers via oxidative polymerization. <i>New Journal of Chemistry</i> , 2022, 46, 12311-12317.	2.8	2
7	Crystallization regulation of solution-processed two-dimensional perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13625-13650.	10.3	11
8	Pixelated full-colour small molecule semiconductor devices towards artificial retinas. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5858-5867.	5.5	9
9	Synthesis and characterization of polyacrylonitrile-grafted copolymers based on poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock	2.1	1
10	Electron deficient 5-hydroxy-1,2-dihydroisoquinolin-1-ones – A new class of fluorescent dyes with large Stokes shifts. <i>Dyes and Pigments</i> , 2021, 187, 109107.	3.7	6
11	Effect of SiO ₂ nanoparticles embedded in the electrode layer on the efficiency of organic solar cells. <i>Optical Materials Express</i> , 2021, 11, 1537.	3.0	1
12	Uniform Stepped Interfacial Energy Level Structure Boosts Efficiency and Stability of CsPbI ₂ Br Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2103316.	14.9	18
13	Branched Electron-Donor Core Effect in D- π -A Star-Shaped Small Molecules on Their Properties and Performance in Single-Component and Bulk-Heterojunction Organic Solar Cells – Energies, 2021, 14, 3596.	3.1	10
14	Effect of oligothiophene π -bridge length in D- π -A star-shaped small molecules on properties and photovoltaic performance in single-component and bulk heterojunction organic solar cells and photodetectors. <i>Materials Today Energy</i> , 2021, 22, 100863.	4.7	11
15	Effects of electron-withdrawing group and π -conjugation length in donor-acceptor oligothiophenes on their properties and performance in non-fullerene organic solar cells. <i>Dyes and Pigments</i> , 2021, 194, 109592.	3.7	7
16	Charge photogeneration and recombination in single-material organic solar cells and photodetectors based on conjugated star-shaped donor-acceptor oligomers. <i>Organic Electronics</i> , 2020, 78, 105588.	2.6	19
17	End group tuning in small molecule donors for non-fullerene organic solar cells. <i>Dyes and Pigments</i> , 2020, 175, 108078.	3.7	14
18	In search of efficient solubilizing groups for liquid and luminescent oligo(phenylene-thiophene) chromophores. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17074-17082.	5.5	9

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19	Excited state dynamics and exciton diffusion in triphenylamine/dicyanovinyl push-pull small molecule for organic optoelectronics. <i>Scientific Reports</i> , 2020, 10, 21198.	3.3	10
20	Effect of fused triphenylamine core in star-shaped donor-acceptor molecules on their physicochemical properties and performance in bulk heterojunction organic solar cells. <i>Dyes and Pigments</i> , 2020, 177, 108260.	3.7	18
21	Triphenylamine-based luminophores with different side and central aromatic blocks: Synthesis, thermal, photophysical and photochemical properties. <i>Dyes and Pigments</i> , 2020, 179, 108397.	3.7	12
22	Star-shaped benzotriindole-based donor-acceptor molecules: Synthesis, properties and application in bulk heterojunction and single-material organic solar cells. <i>Dyes and Pigments</i> , 2020, 181, 108523.	3.7	21
23	Phase Transitions and Formation of a Monolayer-Type Structure in Thin Oligothiophene Films: Exploration with a Combined In Situ X-ray Diffraction and Electrical Measurements. <i>Nanoscale Research Letters</i> , 2019, 14, 185.	5.7	2
24	Push-pull molecules bearing a hydrazonocyclopentadiene acceptor moiety: from the synthesis to organic photovoltaic applications. <i>Mendeleev Communications</i> , 2019, 29, 304-306.	1.6	8
25	Surface-Enhanced Raman Spectroscopy of 2D Organic Semiconductor Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27242-27250.	3.1	7
26	Novel conjugated copolymers with dithienyl and cyclopentadithienyl substituted dicyanoethene acceptor blocks. <i>Mendeleev Communications</i> , 2019, 29, 561-563.	1.6	1
27	Effect of branching on the physical and photovoltaic properties of donor-acceptor oligomers based on triphenylamine. <i>Mendeleev Communications</i> , 2019, 29, 385-387.	1.6	6
28	Large-Size Single-Crystal Oligothiophene-Based Monolayers for Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6315-6324.	8.0	23
29	Perovskite white light-emitting diodes based on a molecular blend perovskite emissive layer. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8634-8642.	5.5	54
30	Carbazole-based donor-acceptor small molecules with hexyldicyanovinyl electron-withdrawing groups: synthesis and properties. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 525, 012036.	0.6	0
31	Optical Properties of Quaterthiophenes and Their Dimers End-Capped with Electron-Withdrawing Hexyl-Dicyanovinyl Groups. <i>DEStech Transactions on Environment Energy and Earth Science</i> , 2019, , .	0.0	0
32	Simple donor-acceptor molecule with long exciton diffusion length for organic photovoltaics. <i>Organic Electronics</i> , 2018, 53, 185-190.	2.6	19
33	Effects of bridging atom in donor units and nature of acceptor groups on physical and photovoltaic properties of A-D-A oligomers. <i>Organic Electronics</i> , 2018, 55, 42-49.	2.6	12
34	Unsymmetrical donor-acceptor oligothiophenes end-capped with triphenylamine and phenyldicyanovinyl units. <i>Mendeleev Communications</i> , 2018, 28, 415-417.	1.6	12
35	p-Fluorophenyldicyanovinyl as electron-withdrawing group for highly soluble and thermally stable donor-acceptor small molecules. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	1.3	4
36	Triphenylamine-Based Push-Pull Molecule for Photovoltaic Applications: From Synthesis to Ultrafast Device Photophysics. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6424-6435.	3.1	17

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37	Ultrafast Exciton-to-Polaron Conversion in Densely Packed Small Organic Semiconducting Molecules. <i>Advanced Optical Materials</i> , 2017, 5, 1700024.	7.3	16
38	Evaluation of Electron Donor Materials for Solution-Processed Organic Solar Cells via a Novel Figure of Merit. <i>Advanced Energy Materials</i> , 2017, 7, 1700465.	19.5	114
39	Processability: Evaluation of Electron Donor Materials for Solution-Processed Organic Solar Cells via a Novel Figure of Merit (<i>Adv. Energy Mater.</i> 18/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	19.5	0
40	Highly soluble and thermally stable alkyl-free star-shaped D- π -A oligomer with electron-withdrawing phenyldicyanovinyl groups for organic photovoltaics. <i>Organic Electronics</i> , 2017, 51, 180-189.	2.6	15
41	Highly bendable luminescent semiconducting organic single crystal. <i>Synthetic Metals</i> , 2017, 232, 60-65.	3.9	21
42	The Effect of Star-Shaped Oligothiophenes with a Carbazole Core on Their Structural and Optical Properties. <i>Nanotechnologies in Russia</i> , 2017, 12, 385-394.	0.7	4
43	Ultrathin solution-processed single crystals of thiophene-phenylene co-oligomers for organic field-effect devices. , 2017, , .		2
44	Effect of core modification in star-shaped donor-acceptor oligomers on physical properties and photovoltaic performance. , 2017, , .		1
45	Fully Solution-Processed Small Molecule Semitransparent Solar Cells: Optimization of Transparent Cathode Architecture and Four Absorbing Layers. <i>Advanced Functional Materials</i> , 2016, 26, 4543-4550.	14.9	73
46	Solution-processed star-shaped oligomers in normal and inverted organic solar cells. <i>Synthetic Metals</i> , 2016, 215, 229-234.	3.9	2
47	Effects of electron-withdrawing group and electron-donating core combinations on physical properties and photovoltaic performance in D- π -A star-shaped small molecules. <i>Organic Electronics</i> , 2016, 32, 157-168.	2.6	39
48	Visualization of molecular excitons diffusion. <i>Proceedings of SPIE</i> , 2016, , .	0.8	6
49	Star-shaped D- π -A oligothiophenes with a tris(2-methoxyphenyl)amine core and alkyldicyanovinyl groups: synthesis and physical and photovoltaic properties. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7061-7076.	5.5	26
50	Highly Luminescent Solution-Grown Thiophene-Phenylene Co-Oligomer Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10088-10092.	8.0	36
51	Ultrafast Charge Dynamics in Novel Star-Shaped Small Molecules: the Effect of Donor and Acceptor Groups. , 2016, , .		0
52	Solar Cells: Ultrafast Charge Generation Pathways in Photovoltaic Blends Based on Novel Star-Shaped Conjugated Molecules (<i>Adv. Energy Mater.</i> 7/2015). <i>Advanced Energy Materials</i> , 2015, 5, .	19.5	0
53	Effects of Alkyl Terminal Chains on Morphology, Charge Generation, Transport, and Recombination Mechanisms in Solution-Processed Small Molecule Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500386.	19.5	112
54	Effects of bridging atom and π -bridge length on physical and photovoltaic properties of A- π -D- π -A oligomers for solution-processed organic solar cells. <i>Dyes and Pigments</i> , 2015, 122, 213-223.	3.7	10

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55	Synthesis and photovoltaic effect in red/near-infrared absorbing A-D-A-D-A-type oligothiophenes containing benzothiadiazole and thienothiadiazole central units. <i>Journal of Photonics for Energy</i> , 2015, 5, 057213.	1.3	11
56	Integrated molecular, morphological and interfacial engineering towards highly efficient and stable solution-processed small molecule solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22695-22707.	10.3	26
57	Design of low band gap small molecules with alkyldicyanovinyl acceptor and different donor groups for efficient bulk heterojunction organic solar cells. <i>Proceedings of SPIE</i> , 2015, , .	0.8	7
58	Nanostructured Organosilicon Luminophores for Effective Light Conversion in Organic Light Emitting Diodes. <i>Organic Photonics and Photovoltaics</i> , 2015, 3, .	1.3	8
59	Ultrafast Charge Generation Pathways in Photovoltaic Blends Based on Novel Star-Shaped Conjugated Molecules. <i>Advanced Energy Materials</i> , 2015, 5, 1401657.	19.5	35
60	Ultrafast Electron and Hole Dynamics in Novel Conjugated Star-Shaped Molecules. , 2014, , .		0
61	ULTRAFAST INTRAMOLECULAR DYNAMICS IN NOVEL STAR-SHAPED MOLECULES FOR PHOTOVOLTAIC APPLICATIONS. , 2014, , .		2
62	Development of new methods in modern selective organic synthesis: preparation of functionalized molecules with atomic precision. <i>Russian Chemical Reviews</i> , 2014, 83, 885-985.	6.5	182
63	A new dithienosilole-based oligothiophene with methyl dicyanovinyl groups for high performance solution-processed organic solar cells. <i>Organic Electronics</i> , 2014, 15, 3800-3804.	2.6	18
64	Solubility Based Identification of Green Solvents for Small Molecule Organic Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 1449-1457.	14.9	132
65	Alkyl Chain Engineering of Solution-Processable Star-Shaped Molecules for High-Performance Organic Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1301234.	19.5	96
66	Design of donor-acceptor star-shaped oligomers for efficient solution-processible organic photovoltaics. <i>Faraday Discussions</i> , 2014, 174, 313-339.	3.2	44
67	A star-shaped D-A small molecule based on a tris(2-methoxyphenyl)amine core for highly efficient solution-processed organic solar cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7614-7620.	5.5	16
68	Interface Design to Improve the Performance and Stability of Solution-Processed Small-Molecule Conventional Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400816.	19.5	76
69	Branched triphenylamine-based oligomers for organic electronics. <i>Polymer Science - Series C</i> , 2014, 56, 104-134.	1.7	30
70	Effects of oligothiophene π -bridge length on physical and photovoltaic properties of star-shaped molecules for bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16135-16147.	10.3	38
71	Molecularly Smooth Single-Crystalline Films of Thiophene-Phenylene Co-Oligomers Grown at the Gas-Liquid Interface. <i>Crystal Growth and Design</i> , 2014, 14, 1726-1737.	3.0	49
72	Nanostructured organosilicon luminophores and their application in highly efficient plastic scintillators. <i>Scientific Reports</i> , 2014, 4, 6549.	3.3	38

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73	A combination of Al-doped ZnO and a conjugated polyelectrolyte interlayer for small molecule solution-processed solar cells with an inverted structure. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11306.	10.3	48
74	Optical and electro-optical properties of silicon-containing thiophene derivatives of star-shaped and dendritic structure. <i>Russian Journal of Applied Chemistry</i> , 2013, 86, 747-755.	0.5	2
75	A solution-processable star-shaped molecule for high-performance organic solar cells via alkyl chain engineering and solvent additive. <i>Organic Electronics</i> , 2013, 14, 219-229.	2.6	57
76	The photoluminescence kinetics of oligothiophene-phenylenesilane crystalline films. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika)</i> , 2012, 67, 409-411.	0.4	1
77	Effect of Molecular Structure of β , β' -Dialkylquaterthiophenes and Their Organosilicon Multipods on Ordering, Phase Behavior, and Charge Carrier Mobility. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22727-22736.	3.1	31
78	Bithiophenesilane-Based Dendronized Polymers: Facile Synthesis and Properties of Novel Highly Branched Organosilicon Macromolecular Structures. <i>Macromolecules</i> , 2012, 45, 2014-2024.	4.8	35
79	Development of VUV wavelength shifter for the use with a visible light photodetector in noble gas filled detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 695, 403-406.	1.6	18
80	Mechanisms of molecular polarization of bithiophenesilane dendrimers in solutions. <i>Polymer Science - Series A</i> , 2011, 53, 569-577.	1.0	2
81	Synthesis and properties of a new luminescent oligoarylsilane dendrimer. <i>Mendeleev Communications</i> , 2011, 21, 89-91.	1.6	6
82	Luminescence spectral properties of dendritic oligothiophenesilane macromolecules. <i>Russian Journal of Physical Chemistry A</i> , 2010, 84, 1979-1985.	0.6	7
83	3D quater- and quinquethiophenesilanes as promising electron-donor materials for BHJ photovoltaic cells and photodetectors. <i>Energy and Environmental Science</i> , 2010, 3, 1941.	30.8	26
84	Branched oligothiophene silanes with the efficient nonradiative energy transfer between the fragments. <i>Russian Chemical Bulletin</i> , 2010, 59, 797-805.	1.5	13
85	Quaterthiophene-based multipods as promising materials for solution-processable organic solar cells and field effect transistors. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2064-2072.	6.2	19
86	Structure and Properties of Functionalized Bithiophenesilane Monodendrons. <i>Langmuir</i> , 2009, 25, 9270-9284.	3.5	13
87	First Organosilicon Molecular Antennas. <i>Chemistry of Materials</i> , 2009, 21, 447-455.	6.7	39
88	Facile Synthesis and Optical Properties of Bithiophenesilane Monodendrons and Dendrimers. <i>Organic Letters</i> , 2008, 10, 2753-2756.	4.6	25