

Oksana Ostroverkhova

List of Publications by Year in descending order

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papers

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201674

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times ranked

4362
citing authors

#	ARTICLE	IF	CITATIONS
1	Illuminating Excited-State Intramolecular Proton Transfer of a Fungi-Derived Red Pigment for Sustainable Functional Materials. <i>Journal of Physical Chemistry C</i> , 2022, 126, 459-477.	3.1	7
2	High-Symmetry Anthradithiophene Molecular Packing Motifs Promote Thermally Activated Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4433-4445.	3.1	15
3	Ultrafast Dynamics and Photoresponse of a Fungi-Derived Pigment Xylindein from Solution to Thin Films. <i>Chemistry - A European Journal</i> , 2021, 27, 5627-5631.	3.3	12
4	Role of Hydroxyl Groups in the Photophysics, Photostability, and (Opto)electronic Properties of the Fungi-Derived Pigment Xylindein. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6534-6545.	3.1	7
5	Ultrafast Triplet State Formation in a Methylated Fungi-Derived Pigment: Toward Rational Molecular Design for Sustainable Optoelectronics. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17565-17572.	3.1	6
6	Exciton Polariton-Enhanced Photodimerization of Functionalized Tetracene. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27072-27083.	3.1	10
7	Exciton Polaritons Reveal "Hidden" Populations in Functionalized Pentacene Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27381-27393.	3.1	7
8	Molecular packing-dependent exciton dynamics in functionalized anthradithiophene derivatives: From solutions to crystals. <i>Journal of Chemical Physics</i> , 2020, 153, 164715.	3.0	13
9	Optimizing Xylindein from <i>Chlorociboria</i> spp. for (Opto)electronic Applications. <i>Processes</i> , 2020, 8, 1477.	2.8	5
10	Strong exciton-plasmon coupling in dye-doped film on a planar hyperbolic metamaterial. <i>Optics Letters</i> , 2020, 45, 6736.	3.3	4
11	Controlling the Level of Coupling Between Quantum Emitters and Planar Hyperbolic Metamaterials. , 2020, , .		0
12	Strong exciton-photon coupling in anthradithiophene microcavities: from isolated molecules to aggregates. <i>MRS Communications</i> , 2019, 9, 956-963.	1.8	5
13	Xylindein: Naturally Produced Fungal Compound for Sustainable (Opto)electronics. <i>ACS Omega</i> , 2019, 4, 13309-13318.	3.5	25
14	Fungi-derived xylindein: effect of purity on optical and electronic properties. <i>MRS Advances</i> , 2019, 4, 1769-1777.	0.9	12
15	Molecular packing-dependent photoconductivity in functionalized anthradithiophene crystals. <i>Organic Electronics</i> , 2019, 67, 311-319.	2.6	9
16	Fungi-Derived Pigments for Sustainable Organic (Opto)Electronics. <i>MRS Advances</i> , 2018, 3, 3459-3464.	0.9	25
17	Molecular Packing-Dependent Exciton and Polariton Dynamics in Anthradithiophene Organic Crystals. <i>MRS Advances</i> , 2018, 3, 3465-3470.	0.9	7
18	Understanding innate preferences of wild bee species: responses to wavelength-dependent selective excitation of blue and green photoreceptor types. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2018, 204, 667-675.	1.6	8

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19	Effect of molecular side groups and local nanoenvironment on photodegradation and its reversibility. , 2018, , .		0
20	Fungi-derived pigments as sustainable organic (opto)electronic materials. Proceedings of SPIE, 2017, , .	0.8	7
21	Single molecule-level study of donor-acceptor interactions and nanoscale environment in blends. Proceedings of SPIE, 2017, , .	0.8	0
22	Single-Molecule Level Insight into Nanoscale Environment-Dependent Photophysics in Blends. Journal of Physical Chemistry C, 2017, 121, 12483-12494.	3.1	7
23	Simultaneous fluorescence and surface charge measurements on organic semiconductor-coated silica microspheres in (non)polar liquids. Optics Express, 2017, 25, 29161.	3.4	0
24	Organic Optoelectronic Materials: Mechanisms and Applications. Chemical Reviews, 2016, 116, 13279-13412.	47.7	1,205
25	Visual outdoor response of multiple wild bee species: highly selective stimulation of a single photoreceptor type by sunlight-induced fluorescence. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2015, 201, 705-716.	1.6	12
26	Single-molecule imaging of organic semiconductors: Toward nanoscale insights into photophysics and molecular packing. Chemical Physics Letters, 2015, 629, 29-35.	2.6	17
27	Design of organic ternary blends and small-molecule bulk heterojunctions: photophysical considerations. Journal of Photonics for Energy, 2015, 5, 057208.	1.3	8
28	Photophysics of organic semiconductors: from ensemble to the single-molecule level. , 2015, , .		1
29	Optical tweezers-based probe of charge transfer in organic semiconductors at microscopic scales. Proceedings of SPIE, 2015, , .	0.8	0
30	Enhanced charge photogeneration promoted by crystallinity in small-molecule donor-acceptor bulk heterojunctions. Applied Physics Letters, 2014, 105, 043301.	3.3	30
31	Charge carrier dynamics in small-molecule- and polymer-based donor-acceptor blends. Materials Research Society Symposia Proceedings, 2014, 1733, 13.	0.1	0
32	Small-Molecule Bulk Heterojunctions: Distinguishing Between Effects of Energy Offsets and Molecular Packing on Optoelectronic Properties. Journal of Physical Chemistry C, 2013, 117, 24752-24760.	3.1	19
33	Charge carrier dynamics in organic semiconductors and their donor-acceptor composites: Numerical modeling of time-resolved photocurrent. Journal of Applied Physics, 2013, 114, .	2.5	14
34	Formation of the Donor-acceptor Charge-Transfer Exciton and Its Contribution to Charge Photogeneration and Recombination in Small-Molecule Bulk Heterojunctions. Journal of Physical Chemistry C, 2012, 116, 18108-18116.	3.1	47
35	Synthesis and charge transport studies of stable, soluble hexacenes. Chemical Communications, 2012, 48, 8261.	4.1	37
36	Energy Transfer and Exciplex Formation and Their Impact on Exciton and Charge Carrier Dynamics in Organic Films. Journal of Physical Chemistry Letters, 2011, 2, 362-366.	4.6	42

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37	Temperature dependence of exciton and charge carrier dynamics in organic thin films. <i>Physical Review B</i> , 2011, 84, .	3.2	49
38	Metallic nanostructures in a polymer matrix and substrate fabrication and structural characterization. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 1117-1123.	2.3	0
39	Effect of intermolecular interactions on charge and exciplex formation in high-performance organic semiconductors. , 2011, , .		3
40	Optical, photoluminescent, and photoconductive properties of functionalized anthradithiophene and benzothiophene derivatives. , 2010, , .		2
41	Photophysical and Photoconductive Properties of Novel Organic Semiconductors. <i>ACS Symposium Series</i> , 2010, , 211-227.	0.5	3
42	Aggregate formation and its effect on (opto)electronic properties of guest-host organic semiconductors. <i>Applied Physics Letters</i> , 2010, 97, 163303.	3.3	31
43	Influence of organic semiconductor-metal interfaces on the photoresponse of functionalized anthradithiophene thin films. <i>Journal of Applied Physics</i> , 2009, 105, 103703.	2.5	30
44	Optical, Fluorescent, and (Photo)conductive Properties of High-Performance Functionalized Pentacene and Anthradithiophene Derivatives. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14006-14014.	3.1	86
45	Organic semiconductor composites: Influence of additives on the transient photocurrent. <i>Applied Physics Letters</i> , 2009, 94, 013306.	3.3	29
46	The effect of synthesis procedure on the structure and properties of palladium/polycarbonate nanocomposites. <i>Polymer</i> , 2008, 49, 3413-3418.	3.8	33
47	Photoconductivity in organic thin films: From picoseconds to seconds after excitation. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	41
48	Temperature dependent properties of novel functionalized anthradithiophene and dicyanomethylenedihydrofuran derivatives. , 2008, , .		0
49	Optical tweezers with resonant particles. , 2008, , .		0
50	Fluorescent and photoconductive properties of anthradithiophene and pentacene derivatives. , 2007, , .		0
51	Optical field enhancement In tweezer trapping. , 2007, , .		0
52	Probing Organic Semiconductors with Terahertz Pulses. , 2006, , 367-428.		34
53	Ultrafast carrier dynamics in pentacene, functionalized pentacene, tetracene, and rubrene single crystals. <i>Applied Physics Letters</i> , 2006, 88, 162101.	3.3	107
54	Anisotropy of transient photoconductivity in functionalized pentacene single crystals. <i>Applied Physics Letters</i> , 2006, 89, 192113.	3.3	79

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55	Bandlike transport in pentacene and functionalized pentacene thin films revealed by subpicosecond transient photoconductivity measurements. <i>Physical Review B</i> , 2005, 71, .	3.2	146
56	Optical and transient photoconductive properties of pentacene and functionalized pentacene thin films: Dependence on film morphology. <i>Journal of Applied Physics</i> , 2005, 98, 033701.	2.5	114
57	Soliton-induced waveguides in an organic photorefractive glass. <i>Optics Letters</i> , 2005, 30, 519.	3.3	37
58	Organic Photorefractives: Mechanisms, Materials, and Applications. <i>Chemical Reviews</i> , 2004, 104, 3267-3314.	47.7	464
59	Role of Temperature in Controlling Performance of Photorefractive Organic Glasses. <i>ChemPhysChem</i> , 2003, 4, 732-744.	2.1	41
60	Novel Fluorophores for Single-Molecule Imaging. <i>Journal of the American Chemical Society</i> , 2003, 125, 1174-1175.	13.7	104
61	Self-trapping of light in an organic photorefractive glass. <i>Optics Letters</i> , 2003, 28, 2509.	3.3	42
62	High-performance photorefractive organic glass with near-infrared sensitivity. <i>Applied Physics Letters</i> , 2003, 82, 3602-3604.	3.3	38
63	Space-charge dynamics in photorefractive polymers. <i>Journal of Applied Physics</i> , 2002, 92, 1727-1743.	2.5	76
64	Electric field-induced second harmonic generation studies of chromophore orientational dynamics in photorefractive polymers. <i>Journal of Applied Physics</i> , 2002, 91, 9481.	2.5	32
65	Title is missing!. <i>Advanced Functional Materials</i> , 2002, 12, 621-629.	14.9	65
66	Prospects for chiral nonlinear optical media. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2001, 7, 781-792.	2.9	19
67	Optimization of the molecular hyperpolarizability for second harmonic generation in chiral media. <i>Chemical Physics</i> , 2000, 257, 263-274.	1.9	39
68	Photoalignment of Liquid Crystals by Liquid Crystals. <i>Physical Review Letters</i> , 2000, 84, 1930-1933.	7.8	49