

# Oksana Ostroverkhova

## List of Publications by Year in descending order

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68  
papers

3,416  
citations

201674

27  
h-index

168389

53  
g-index

71  
all docs

71  
docs citations

71  
times ranked

4362  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Optoelectronic Materials: Mechanisms and Applications. Chemical Reviews, 2016, 116, 13279-13412.	47.7	1,205
2	Organic Photorefractives: Mechanisms, Materials, and Applications. Chemical Reviews, 2004, 104, 3267-3314.	47.7	464
3	Bandlike transport in pentacene and functionalized pentacene thin films revealed by subpicosecond transient photoconductivity measurements. Physical Review B, 2005, 71, .	3.2	146
4	Optical and transient photoconductive properties of pentacene and functionalized pentacene thin films: Dependence on film morphology. Journal of Applied Physics, 2005, 98, 033701.	2.5	114
5	Ultrafast carrier dynamics in pentacene, functionalized pentacene, tetracene, and rubrene single crystals. Applied Physics Letters, 2006, 88, 162101.	3.3	107
6	Novel Fluorophores for Single-Molecule Imaging. Journal of the American Chemical Society, 2003, 125, 1174-1175.	13.7	104
7	Optical, Fluorescent, and (Photo)conductive Properties of High-Performance Functionalized Pentacene and Anthradithiophene Derivatives. Journal of Physical Chemistry C, 2009, 113, 14006-14014.	3.1	86
8	Anisotropy of transient photoconductivity in functionalized pentacene single crystals. Applied Physics Letters, 2006, 89, 192113.	3.3	79
9	Space-charge dynamics in photorefractive polymers. Journal of Applied Physics, 2002, 92, 1727-1743.	2.5	76
10	Title is missing!. Advanced Functional Materials, 2002, 12, 621-629.	14.9	65
11	Photoalignment of Liquid Crystals by Liquid Crystals. Physical Review Letters, 2000, 84, 1930-1933.	7.8	49
12	Temperature dependence of exciton and charge carrier dynamics in organic thin films. Physical Review B, 2011, 84, .	3.2	49
13	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
14	Self-trapping of light in an organic photorefractive glass. Optics Letters, 2003, 28, 2509.	3.3	42
15	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
16	Role of Temperature in Controlling Performance of Photorefractive Organic Glasses. ChemPhysChem, 2003, 4, 732-744.	2.1	41
17	Photoconductivity in organic thin films: From picoseconds to seconds after excitation. Journal of Applied Physics, 2008, 103, .	2.5	41
18	Optimization of the molecular hyperpolarizability for second harmonic generation in chiral media. Chemical Physics, 2000, 257, 263-274.	1.9	39

#	ARTICLE	IF	CITATIONS
19	High-performance photorefractive organic glass with near-infrared sensitivity. <i>Applied Physics Letters</i> , 2003, 82, 3602-3604.	3.3	38
20	Soliton-induced waveguides in an organic photorefractive glass. <i>Optics Letters</i> , 2005, 30, 519.	3.3	37
21	Synthesis and charge transport studies of stable, soluble hexacenes. <i>Chemical Communications</i> , 2012, 48, 8261.	4.1	37
22	Probing Organic Semiconductors with Terahertz Pulses. , 2006, , 367-428.		34
23	The effect of synthesis procedure on the structure and properties of palladium/polycarbonate nanocomposites. <i>Polymer</i> , 2008, 49, 3413-3418.	3.8	33
24	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
25	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
26	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
27	Enhanced charge photogeneration promoted by crystallinity in small-molecule donor-acceptor bulk heterojunctions. <i>Applied Physics Letters</i> , 2014, 105, 043301.	3.3	30
28	Organic semiconductor composites: Influence of additives on the transient photocurrent. <i>Applied Physics Letters</i> , 2009, 94, 013306.	3.3	29
29	Fungi-Derived Pigments for Sustainable Organic (Opto)Electronics. <i>MRS Advances</i> , 2018, 3, 3459-3464.	0.9	25
30	Xylindein: Naturally Produced Fungal Compound for Sustainable (Opto)electronics. <i>ACS Omega</i> , 2019, 4, 13309-13318.	3.5	25
31	Prospects for chiral nonlinear optical media. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2001, 7, 781-792.	2.9	19
32	Small-Molecule Bulk Heterojunctions: Distinguishing Between Effects of Energy Offsets and Molecular Packing on Optoelectronic Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24752-24760.	3.1	19
33	Single-molecule imaging of organic semiconductors: Toward nanoscale insights into photophysics and molecular packing. <i>Chemical Physics Letters</i> , 2015, 629, 29-35.	2.6	17
34	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
35	Charge carrier dynamics in organic semiconductors and their donor-acceptor composites: Numerical modeling of time-resolved photocurrent. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	14
36	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

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37	Visual outdoor response of multiple wild bee species: highly selective stimulation of a single photoreceptor type by sunlight-induced fluorescence. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2015, 201, 705-716.	1.6	12
38	Fungi-derived xylindein: effect of purity on optical and electronic properties. <i>MRS Advances</i> , 2019, 4, 1769-1777.	0.9	12
39	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
40	Exciton Polariton-Enhanced Photodimerization of Functionalized Tetracene. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27072-27083.	3.1	10
41	Molecular packing-dependent photoconductivity in functionalized anthradithiophene crystals. <i>Organic Electronics</i> , 2019, 67, 311-319.	2.6	9
42	Design of organic ternary blends and small-molecule bulk heterojunctions: photophysical considerations. <i>Journal of Photonics for Energy</i> , 2015, 5, 057208.	1.3	8
43	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
44	Fungi-derived pigments as sustainable organic (opto)electronic materials. <i>Proceedings of SPIE</i> , 2017, , .	0.8	7
45	Single-Molecule Level Insight into Nanoscale Environment-Dependent Photophysics in Blends. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12483-12494.	3.1	7
46	Molecular Packing-Dependent Exciton and Polariton Dynamics in Anthradithiophene Organic Crystals. <i>MRS Advances</i> , 2018, 3, 3465-3470.	0.9	7
47	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
48	Exciton Polaritons Reveal "Hidden" Populations in Functionalized Pentacene Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27381-27393.	3.1	7
49	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
50	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
51	Strong exciton-photon coupling in anthradithiophene microcavities: from isolated molecules to aggregates. <i>MRS Communications</i> , 2019, 9, 956-963.	1.8	5
52	Optimizing Xylindein from <i>Chlorociboria</i> spp. for (Opto)electronic Applications. <i>Processes</i> , 2020, 8, 1477.	2.8	5
53	Strong exciton-plasmon coupling in dye-doped film on a planar hyperbolic metamaterial. <i>Optics Letters</i> , 2020, 45, 6736.	3.3	4
54	Photophysical and Photoconductive Properties of Novel Organic Semiconductors. <i>ACS Symposium Series</i> , 2010, , 211-227.	0.5	3

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55	Effect of intermolecular interactions on charge and exciplex formation in high-performance organic semiconductors. , 2011, , .		3
56	Optical, photoluminescent, and photoconductive properties of functionalized anthradithiophene and benzothiophene derivatives. , 2010, , .		2
57	Photophysics of organic semiconductors: from ensemble to the single-molecule level. , 2015, , .		1
58	Fluorescent and photoconductive properties of anthradithiophene and pentacene derivatives. , 2007, , .		0
59	Optical field enhancement In tweezer trapping. , 2007, , .		0
60	Temperature dependent properties of novel functionalized anthradithiophene and dicyanomethylenedihydrofuran derivatives. , 2008, , .		0
61	Metallic nanostructures in a polymer matrix and substrate fabrication and structural characterization. Applied Physics A: Materials Science and Processing, 2011, 103, 1117-1123.	2.3	0
62	Charge carrier dynamics in small-molecule- and polymer-based donor-acceptor blends. Materials Research Society Symposia Proceedings, 2014, 1733, 13.	0.1	0
63	Optical tweezers-based probe of charge transfer in organic semiconductors at microscopic scales. Proceedings of SPIE, 2015, , .	0.8	0
64	Single molecule-level study of donor-acceptor interactions and nanoscale environment in blends. Proceedings of SPIE, 2017, , .	0.8	0
65	Simultaneous fluorescence and surface charge measurements on organic semiconductor-coated silica microspheres in (non)polar liquids. Optics Express, 2017, 25, 29161.	3.4	0
66	Optical tweezers with resonant particles. , 2008, , .		0
67	Effect of molecular side groups and local nanoenvironment on photodegradation and its reversibility. , 2018, , .		0
68	Controlling the Level of Coupling Between Quantum Emitters and Planar Hyperbolic Metamaterials. , 2020, , .		0