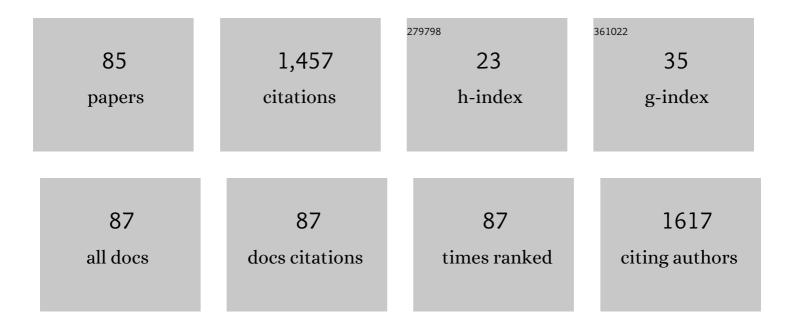
Oleg Borshchev

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Development of new methods in modern selective organic synthesis: preparation of functionalized molecules with atomic precision. Russian Chemical Reviews, 2014, 83, 885-985.	6.5	182
2	Gas sensing with self-assembled monolayer field-effect transistors. Organic Electronics, 2010, 11, 895-898.	2.6	90
3	Molecularly Smooth Single-Crystalline Films of Thiophene–Phenylene Co-Oligomers Grown at the Gas–Liquid Interface. Crystal Growth and Design, 2014, 14, 1726-1737.	3.0	49
4	Material solubility and molecular compatibility effects in the design of fullerene/polymer composites for organic bulk heterojunction solar cells. Journal of Materials Chemistry, 2012, 22, 18433.	6.7	48
5	Easily Processable Highly Ordered Langmuir-Blodgett Films of Quaterthiophene Disiloxane Dimer for Monolayer Organic Field-Effect Transistors. Langmuir, 2014, 30, 15327-15334.	3.5	45
6	First Organosilicon Molecular Antennas. Chemistry of Materials, 2009, 21, 447-455.	6.7	39
7	Highly Sensitive Air-Stable Easily Processable Gas Sensors Based on Langmuir–Schaefer Monolayer Organic Field-Effect Transistors for Multiparametric H ₂ S and NH ₃ Real-Time Detection. ACS Applied Materials & Interfaces, 2018, 10, 43831-43841.	8.0	39
8	Nanostructured organosilicon luminophores and their application in highly efficient plastic scintillators. Scientific Reports, 2014, 4, 6549.	3.3	38
9	Synthesis of organosilicon derivatives of [1]benzothieno[3,2-b][1]-benzothiophene for efficient monolayer Langmuir–Blodgett organic field effect transistors. Chemical Communications, 2017, 53, 885-888.	4.1	38
10	Fluorinated Thiophene-Phenylene Co-Oligomers for Optoelectronic Devices. ACS Applied Materials & Interfaces, 2020, 12, 9507-9519.	8.0	38
11	Polymer Surface Engineering for Efficient Printing of Highly Conductive Metal Nanoparticle Inks. ACS Applied Materials & Interfaces, 2015, 7, 11755-11764.	8.0	37
12	Molecular Selfâ€Doping Controls Luminescence of Pure Organic Single Crystals. Advanced Functional Materials, 2018, 28, 1800116.	14.9	37
13	Organosilicon dimer of BTBT as a perspective semiconductor material for toxic gas detection with monolayer organic field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 9649-9659.	5.5	37
14	Oligothiophene-based monolayer field-effect transistors prepared by Langmuir-Blodgett technique. Applied Physics Letters, 2013, 103, 043310.	3.3	36
15	Highly Luminescent Solution-Grown Thiophene-Phenylene Co-Oligomer Single Crystals. ACS Applied Materials & Interfaces, 2016, 8, 10088-10092.	8.0	36
16	Impact of terminal substituents on the electronic, vibrational and optical properties of thiophene–phenylene co-oligomers. Physical Chemistry Chemical Physics, 2019, 21, 11578-11588.	2.8	36
17	Bithiophenesilane Dendrimers:  Synthesis and Thermal and Optical Properties. Organometallics, 2007, 26, 5165-5173.	2.3	35
18	Synthesis of Monochlorosilyl Derivatives of Dialkyloligothiophenes for Self-Assembling Monolayer Field-Effect Transistors. Organometallics, 2010, 29, 4213-4226.	2.3	32

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19	Effect of Molecular Structure of α,α′-Dialkylquaterthiophenes and Their Organosilicon Multipods on Ordering, Phase Behavior, and Charge Carrier Mobility. Journal of Physical Chemistry C, 2012, 116, 22727-22736.	3.1	31
20	Synthesis and optical properties of linear and branched bithienylsilanes. Mendeleev Communications, 2007, 17, 34-36.	1.6	30
21	Luminescent Organic Semiconducting Langmuir Monolayers. ACS Applied Materials & Interfaces, 2017, 9, 18078-18086.	8.0	30
22	Fully integrated ultra-sensitive electronic nose based on organic field-effect transistors. Scientific Reports, 2021, 11, 10683.	3.3	30
23	Formation of Self-Assembled Organosilicon-Functionalized Quinquethiophene Monolayers by Fast Processing Techniques. Langmuir, 2012, 28, 16186-16195.	3.5	25
24	A novel highly efficient nanostructured organosilicon luminophore with unusually fast photoluminescence. Journal of Materials Chemistry C, 2016, 4, 4699-4708.	5.5	25
25	Synthesis of bithiophenesilane dendrimer of the first generation. Russian Chemical Bulletin, 2005, 54, 684-690.	1.5	23
26	Development of VUV wavelength shifter for the use with a visible light photodetector in noble gas filled detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 403-406.	1.6	18
27	Conduction band electronic states of ultrathin layers of thiophene/phenylene co-oligomers on an oxidized silicon surface. Journal of Electron Spectroscopy and Related Phenomena, 2019, 235, 40-45.	1.7	17
28	Direct-write printing of reactive oligomeric alkoxysilanes as an affordable and highly efficient route for promoting local adhesion of silver inks on polymer substrates. Journal of Materials Chemistry C, 2016, 4, 2211-2218.	5.5	16
29	Development of a New Class of Scintillating Fibres with Very Short Decay Time and High Light Yield. Journal of Instrumentation, 2017, 12, P05013-P05013.	1.2	16
30	Influence of the structure of electron-donating aromatic units in organosilicon luminophores based on 2,1,3-benzothiadiazole electron-withdrawing core on their absorption-luminescent properties. Dyes and Pigments, 2018, 155, 284-291.	3.7	16
31	Self-assembled organic semiconductors for monolayer field-effect transistors. Polymer Science - Series C, 2014, 56, 32-46.	1.7	15
32	Growth from Solutions, Structure, and Photoluminescence of Single-Crystal Plates of p-Terphenyl and Its Trimethylsilyl Derivative. Crystallography Reports, 2018, 63, 819-831.	0.6	15
33	Growth from Solution, Structure, and Optical Properties of Single-Crystal para-Quaterphenyl Films. Crystallography Reports, 2018, 63, 139-148.	0.6	14
34	Branched oligothiophene silanes with the efficient nonradiative energy transfer between the fragments. Russian Chemical Bulletin, 2010, 59, 797-805.	1.5	13
35	Synthesis, characterization and organic field-effect transistors applications of novel tetrathienoacene derivatives. Dyes and Pigments, 2021, 185, 108911.	3.7	12
36	Study of a pure CsI crystal readout by APD for Belle II end cap ECL upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 691-692.	1.6	11

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37	Impact of N-substitution on structural, electronic, optical, and vibrational properties of a thiophene–phenylene co-oligomer. RSC Advances, 2020, 10, 28128-28138.	3.6	11
38	Toward probing of the local electron–phonon interaction in small-molecule organic semiconductors with Raman spectroscopy. Journal of Chemical Physics, 2020, 153, 174303.	3.0	11
39	Biorecognition Layer Based On Biotin-Containing [1]Benzothieno[3,2- <i>b</i>][1]benzothiophene Derivative for Biosensing by Electrolyte-Gated Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2022, 14, 16462-16476.	8.0	11
40	Novel Cross-Linked Luminescent Silicone Composites Based on Reactive Nanostructured Organosilicon Luminophores. Silicon, 2015, 7, 191-200.	3.3	10
41	Synthesis and photostability of 1,4-bis(5-phenyloxazol-2-yl)benzene (POPOP) structural isomers and their trimethylsilyl derivatives. Dyes and Pigments, 2017, 141, 128-136.	3.7	10
42	Suppression of dynamic disorder by electrostatic interactions in structurally close organic semiconductors. Physical Chemistry Chemical Physics, 2021, 23, 15485-15491.	2.8	10
43	Synthesis of Nanostructured Organosilicon Luminophores Based on Phenyloxazoles. Russian Journal of Organic Chemistry, 2019, 55, 25-41.	0.8	9
44	Ultrafast intramolecular energy transfer in a nanostructured organosilicon luminophore based on <i>p</i> -terphenyl and 1,4-bis(5-phenyloxazol-2-yl)benzene. Journal of Materials Chemistry C, 2019, 7, 14612-14624.	5.5	9
45	Large Area Free-Standing Single Crystalline Films of p-Quinquephenyl: Growth, Structure and Photoluminescence Properties. Crystals, 2020, 10, 363.	2.2	9
46	Nanostructured organosilicon luminophores as a new concept of nanomaterials for highly efficient down-conversion of light. , 2015, , .		8
47	Luminescent Highâ€Mobility 2D Organic Semiconductor Single Crystals. Advanced Electronic Materials, 2022, 8, .	5.1	8
48	Luminescence spectral properties of dendritic oligothiophenesilane macromolecules. Russian Journal of Physical Chemistry A, 2010, 84, 1979-1985.	0.6	7
49	Thiophene-based monolayer OFETs prepared by Langmuir techniques. Proceedings of SPIE, 2015, , .	0.8	7
50	Highly luminescent crystals of a novel linear π-conjugated thiophene–phenylene co-oligomer with a benzothiadiazole fragment. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 1076-1085.	1.1	7
51	Synthesis and properties of a new luminescent oligoarylsilane dendrimer. Mendeleev Communications, 2011, 21, 89-91.	1.6	6
52	Influence of chemical structure of branched and dendritic organosilicon luminophores on their optical and thermal properties. Organic Photonics and Photovoltaics, 2017, 5, 1-8.	1.3	6
53	Solubility and Crystal Growth of p-Quaterphenyl and Its Derivative with Trimethylsilyl Terminal Substituents. Russian Journal of Physical Chemistry A, 2019, 93, 1741-1746.	0.6	6
54	Spectroscopic Assessment of Charge arrier Mobility in Crystalline Organic Semiconductors. Advanced Electronic Materials, 0, , 2100579.	5.1	6

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55	Operationally Stable Ultrathin Organic Field Effect Transistors Based on Siloxane Dimers of Benzothieno[3,2â€b][1]Benzothiophene Suitable for Ethanethiol Detection. Advanced Electronic Materials, 0, , 2101039.	5.1	6
56	A new linear phenyloxazole–benzothiadiazole luminophore: crystal growth, structure and fluorescence properties. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 261-269.	1.1	5
57	Novel wavelength shifters to improve sensitivity of vacuum photodetectors to Cherenkov light. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 766, 160-162.	1.6	4
58	Test of SensL SiPM coated with NOL-1 wavelength shifter in liquid xenon. Journal of Instrumentation, 2017, 12, P05014-P05014.	1.2	4
59	Synthesis and optical properties of highly luminescent phenyloxazole silane polymer. Mendeleev Communications, 2017, 27, 377-379.	1.6	4
60	Growth Anisotropy and Crystal Structure of Linear Conjugated Oligomers. Physics of the Solid State, 2019, 61, 2321-2324.	0.6	4
61	Unoccupied Electron States and the Formation of Interface between Films of Dimethyl-Substituted Thiophene–Phenylene Coolygomers and Oxidized Silicon Surface. Physics of the Solid State, 2018, 60, 1029-1034.	0.6	3
62	Improved tetrathienoacene synthesis. IOP Conference Series: Materials Science and Engineering, 2019, 525, 012007.	0.6	3
63	Crystals of Phenylene–Oxazole Oligomer with a Central Benzothiadiazole Fragment. Journal of Surface Investigation, 2020, 14, 540-543.	0.5	3
64	Simple synthesis of alkyl derivatives of tetrathienoacene and their application in organic field-effect transistors. Journal of Materials Chemistry C, 2021, 9, 10216-10221.	5.5	3
65	Mechanisms of molecular polarization of bithiophenesilane dendrimers in solutions. Polymer Science - Series A, 2011, 53, 569-577.	1.0	2
66	Organosilicon derivatives of BTBT for monolayer organic field effect transistors. , 2017, , .		2
67	Pulse Programming of Resistive States of BTBTâ€Based Organic Memristive Device with High Endurance. Physica Status Solidi - Rapid Research Letters, 0, , 2100471.	2.4	2
68	Unoccupied Electron States of Ultrathin Films of Thiophene–Phenylene Cooligomers on the Surface of Polycrystalline Gold. Physics of the Solid State, 2020, 62, 1960-1966.	0.6	2
69	Simulation of a Central Pattern Generator Using Memristive Devices. Nanobiotechnology Reports, 2021, 16, 755-760.	0.6	2
70	Monolayer organic field effect phototransistors: photophysical characterization and modeling. , 2016, , .		1
71	When dendrimers are not better – rational design of nanolayers for high-performance organic electronic devices. Nanoscale, 2019, 11, 4463-4470.	5.6	1
72	Growth of New Linear Phenylene-Oxazole Oligomers with a Central Benzothiadiazole Fragment from Solutions of Crystals. Physics of the Solid State, 2019, 61, 2438-2441.	0.6	1

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73	Growth of p-Sexiphenyl Crystals and its Trymethylsilyl Derivative from the Vapor Phase. Journal of Surface Investigation, 2021, 15, 24-27.	0.5	1
74	Features of the Growth of p-Quaterphenyl Crystalline Films from Solution Drops on Substrates. Journal of Surface Investigation, 2021, 15, 169-177.	0.5	1
75	Nanostructured organosilicon luminophores for efficient and fast elementary particles photodetectors. , 2017, , .		1
76	Crystals of Linear Oligophenyls: Surface Properties, Nucleation and Growth. , 0, , .		1
77	Synthesis and Aggregation Behavior of Novel Linear and Branched Oligothiopheneâ€Containing Organosilicon Multipods. European Journal of Organic Chemistry, 2022, 2022, .	2.4	1
78	Novel highly efficient blue-emitting branched oligoarylsilanes. Journal of Physics: Conference Series, 2018, 1124, 051010.	0.4	0
79	H2S and NH3 Detection with Langmuir-Schaefer Monolayer Organic Field-Effect Transistors. Proceedings (mdpi), 2018, 2, .	0.2	0
80	Heck Synthesis of New Organosilicon Oligo(arylenevinylenes). Russian Journal of Organic Chemistry, 2019, 55, 1562-1568.	0.8	0
81	Synthesis, photoluminescence and thermal properties of nanostructured organosilicon luminophore based on 2,2'-bithienyl and 4,7-diphenyl-2,1,3-benzothiadiazole. IOP Conference Series: Materials Science and Engineering, 2020, 848, 012012.	0.6	0
82	(Invited) Self-Assembling Organic Semiconductors for Chemical Sensing. ECS Meeting Abstracts, 2021, MA2021-01, 1044-1044.	0.0	0
83	p-Quaterphenyl Crystals: Surface Properties and Nucleation in Solution and Vapor Phase. Russian Journal of Physical Chemistry A, 2021, 95, 1461-1469.	0.6	0
84	Growth from Solutions, Structure, and Spectral–Luminescent Properties of Crystalline Films of Di-n-hexyl-para-quaterphenyl. Crystallography Reports, 2021, 66, 1125-1132.	0.6	0
85	Study of memristive devices on the base of siloxane quatrothiophene dimer. AIP Conference Proceedings, 2022, , .	0.4	0