

Gleb Baryshnikov

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous anchoring of Ni nanoparticles and single-atom Ni on BCN matrix promotes efficient conversion of nitrate in water into high-value-added ammonia. <i>Chemical Engineering Journal</i> , 2022, 433, 133190.	6.6	46
2	Large red-shifted NIR absorption in azulenyl- and iodinated-modified BODIPYs sensitive to aggregation and protonation stimuli. <i>Dyes and Pigments</i> , 2022, 197, 109867.	2.0	6
3	Porphyryns containing a tetraphenylethylene-substituted phenothiazine donor for fabricating efficient dye sensitized solar cells with high photovoltages. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1320-1328.	5.2	31
4	Crystal structure and Hirshfeld surfaces analysis of Heterocyclic-and circulenes. <i>MATEC Web of Conferences</i> , 2022, 355, 01020.	0.1	1
5	Thiazoline Carbene-Cu(I)-Amide complexes: Efficient White Electroluminescence from Combined Monomer and Excimer Emission. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15478-15493.	4.0	25
6	Odd-Number Cyclo[n]Carbons Sustaining Alternating Aromaticity. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2445-2452.	1.1	7
7	Imaging Fluorescence Blinking of a Mitochondrial Localization Probe: Cellular Localization Probes Turned into Multifunctional Sensors. <i>Journal of Physical Chemistry B</i> , 2022, 126, 3048-3058.	1.2	6
8	Water molecular bridge-induced selective dual polarization in crystals for stable multi-emitters. <i>Chemical Science</i> , 2022, 13, 6067-6073.	3.7	3
9	Chain Length Modulated Dimerization and Cyclization of Terminal Thienyl-Blocked Oligopyrranes. <i>Organic Letters</i> , 2022, 24, 5428-5432.	2.4	2
10	Efficient Dye-Sensitized Solar Cells Based on a New Class of Doubly Concerted Companion Dyes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33274-33284.	4.0	28
11	Impact of molecular and packing structure on the charge-transport properties of hetero[8]circulenes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1451-1466.	2.7	11
12	Nucleotide Interaction with a Chitosan Layer on a Silica Surface: Establishing the Mechanism at the Molecular Level. <i>Langmuir</i> , 2021, 37, 1511-1520.	1.6	12
13	Manipulating crystals through photoexcitation-induced molecular realignment. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11707-11714.	2.7	25
14	Copper confined in vesicle-like BCN cavities promotes electrochemical reduction of nitrate to ammonia in water. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23675-23686.	5.2	42
15	Lighting up solid states using a rubber. <i>Nature Communications</i> , 2021, 12, 908.	5.8	21
16	Dianthracenylazatrioxa[8]circulene: Synthesis, Characterization and Application in OLEDs. <i>Chemistry - A European Journal</i> , 2021, 27, 11609-11617.	1.7	7
17	Visualizing Material Processing via Photoexcitation-Controlled Organic-Phase Aggregation-Induced Emission. <i>Research</i> , 2021, 2021, 9862093.	2.8	13
18	Enhancing the Operability of Photoexcitation-Controlled Aggregation-Induced Emissive Molecules in the Organic Phase. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6182-6189.	2.1	20

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19	Schiff Base Zinc(II) Complexes as Promising Emitters for Blue Organic Light-Emitting Diodes. ACS Applied Electronic Materials, 2021, 3, 3436-3444.	2.0	34
20	Quadrupolar Dyes Based on Highly Polarized Coumarins. Organic Letters, 2021, 23, 6770-6774.	2.4	10
21	Photoinduced Radical Emission in a Coassembly System. Angewandte Chemie - International Edition, 2021, 60, 23842-23848.	7.2	43
22	Photoinduced Radical Emission in a Coassembly System. Angewandte Chemie, 2021, 133, 24035.	1.6	8
23	Stable thiophene-embedded N-confused homoporphyrins: Partial conjugation, fusion and fluoride binding. Dyes and Pigments, 2021, 194, 109612.	2.0	5
24	Persistent radical pairs trigger nano-gold to highly efficiently and highly selectively drive the value-added conversion of nitroaromatics. Chem Catalysis, 2021, 1, 1118-1132.	2.9	10
25	Polymorph acceptor-based triads with photoinduced TADF for UV sensing. Chemical Engineering Journal, 2021, 425, 131549.	6.6	7
26	A hybrid molecular sensitizer for triplet fusion upconversion. Chemical Engineering Journal, 2021, 426, 131282.	6.6	5
27	Single-layer polymeric tetraoxa[8]circulene modified by s-block metals: toward stable spin qubits and novel superconductors. Nanoscale, 2021, 13, 4799-4811.	2.8	9
28	Multidimensional Structure Conformation of Persulfurated Benzene for Highly Efficient Phosphorescence. ACS Applied Materials & Interfaces, 2021, 13, 1314-1322.	4.0	13
29	Making Nitronaphthalene Fluoresce. Journal of Physical Chemistry Letters, 2021, 12, 10295-10303.	2.1	7
30	Confusion Approach Modulated Syntheses of Corrorin Parasitized Hexaphyrins(1.1.1.1.0) and the Oxidative Ring Cleavage Behavior. Organic Letters, 2021, 23, 8307-8311.	2.4	3
31	Fluorenyl Indoline as an Efficient Electron Donor for Concerted Companion Dyes: Enhanced Light-Harvesting and Photocurrent. ACS Applied Materials & Interfaces, 2021, 13, 49828-49839.	4.0	18
32	Two-dimensional BCN matrix inlaid with single-atom-Cu driven electrochemical nitrate reduction reaction to achieve sustainable industrial-grade production of ammonia. Applied Materials Today, 2021, 25, 101206.	2.3	31
33	Shape Preserving Single Crystal to Amorphous to Single Crystal Polymorphic Transformation Is Possible. Journal of the American Chemical Society, 2021, 143, 20202-20206.	6.6	0
34	Aromaticity of Heterocirculenes. Chemistry, 2021, 3, 1411-1436.	0.9	11
35	Nâ€Confused Phlorinâ€Prodigiousin Chimera: <i>meso</i> -Aryl Oxidation and Î€Extension Triggered by Peripheral Coordination. Angewandte Chemie - International Edition, 2020, 59, 1537-1541.	7.2	32
36	The effect of molecular structure on the properties of quinoxaline-based molecules for OLED applications. Dyes and Pigments, 2020, 173, 108008.	2.0	34

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37	BODIPY-core 1,7-diphenyl-substituted derivatives for photovoltaics and OLED applications. <i>Dyes and Pigments</i> , 2020, 175, 108123.	2.0	30
38	Hydrophobic boron organic polymers: Ultra-high capacity of enrichment and storage for chloroform. <i>Chemical Engineering Journal</i> , 2020, 385, 123827.	6.6	11
39	N-Confused Phlorin-Prodigiosin Chimera: meso-Aryl Oxidation and Extension Triggered by Peripheral Coordination. <i>Angewandte Chemie</i> , 2020, 132, 1553-1557.	1.6	2
40	Expanded N-Confused Phlorin: A Platform for a Multiply Fused Polycyclic Ring System via Oxidation within the Macrocyclic. <i>Journal of the American Chemical Society</i> , 2020, 142, 17195-17205.	6.6	23
41	Twisted-Planar-Twisted expanded porphyrinoid dimer as a rudimentary reaction-based methanol indicator. <i>Nature Communications</i> , 2020, 11, 5289.	5.8	20
42	Structure and tuneable luminescence in polymeric zinc compounds based on 3-(3-pyridyl)-5-(4-pyridyl)-1,2,4-triazole. <i>Polyhedron</i> , 2020, 191, 114768.	1.0	19
43	Integrating Time-Resolved Imaging Information by Single-Luminophore Dual Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie</i> , 2020, 132, 17166-17173.	1.6	17
44	Integrating Time-Resolved Imaging Information by Single-Luminophore Dual Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17018-17025.	7.2	58
45	Can attachment of tert-butyl substituents to methoxycarbazole moiety induce efficient TADF in diphenylsulfone-based blue OLED emitters?. <i>Organic Electronics</i> , 2020, 86, 105894.	1.4	6
46	A Fully Conjugated Planar Heterocyclic [9]Circulene. <i>Journal of the American Chemical Society</i> , 2020, 142, 14058-14063.	6.6	28
47	Efficient Ambient Electrocatalytic Ammonia Synthesis by Nanogold Triggered via Boron Clusters Combined with Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42821-42831.	4.0	27
48	When are Antiaromatic Molecules Paramagnetic?. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21027-21035.	1.5	18
49	First-principles calculations of anharmonic and deuteration effects on the photophysical properties of polyacenes and porphyrinoids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22314-22323.	1.3	32
50	Integrating Time-Resolved Imaging Information by Single-Luminophore Dual Thermally Activated Delayed Fluorescence (Angew. Chem. 39/2020). <i>Angewandte Chemie</i> , 2020, 132, 17456-17456.	1.6	0
51	Aromaticity of Even-Number Cyclo[<i>n</i>]carbons ($n = 6 \times 100$). <i>Journal of Physical Chemistry A</i> , 2020, 124, 10849-10855.	1.1	30
52	Deciphering the unusual fluorescence in weakly coupled bis-nitro-pyrrolo[3,2-b]pyrroles. <i>Communications Chemistry</i> , 2020, 3, .	2.0	37
53	N-Confused Hexapyrrolic Phlorinoid with NIR Absorption: Synthesis, Fusion, Oxidation, and Copper(II) Coordination. <i>Organic Letters</i> , 2020, 22, 9648-9652.	2.4	9
54	Potassium ions promote electrochemical nitrogen reduction on nano-Au catalysts triggered by bifunctional boron supramolecular assembly. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13086-13094.	5.2	44

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55	BCN-Encapsulated Nano-nickel Synergistically Promotes Ambient Electrochemical Dinitrogen Reduction. ACS Applied Materials & Interfaces, 2020, 12, 31419-31430.	4.0	33
56	Rational Synthesis of 5,5-Tricyclic Fused Thiaheptaphyrin (1.1.1.1.1.0) From a Helical Oligopyrriin Hybrid. Chemistry - an Asian Journal, 2020, 15, 1285-1289.	1.7	4
57	Dual-Phase Thermally Activated Delayed Fluorescence Luminogens: A Material for Time-Resolved Imaging Independent of Probe Pretreatment and Probe Concentration. Angewandte Chemie, 2020, 132, 7618-7624.	1.6	7
58	Benzoselenophenylpyridine platinum complexes: green versus red phosphorescence towards hybrid OLEDs. Dalton Transactions, 2020, 49, 3393-3397.	1.6	19
59	Theoretical Study of Nonradiative Energy Transfer from Exciplex to Perovskites. Russian Physics Journal, 2020, 62, 1911-1916.	0.2	1
60	Engineering stable radicals using photochromic triggers. Nature Communications, 2020, 11, 945.	5.8	25
61	Dual-Phase Thermally Activated Delayed Fluorescence Luminogens: A Material for Time-Resolved Imaging Independent of Probe Pretreatment and Probe Concentration. Angewandte Chemie - International Edition, 2020, 59, 7548-7554.	7.2	46
62	Tripyrriin-armed isosmaragdyrins: synthesis, heterodinuclear coordination, and protonation-triggered helical inversion. Chemical Science, 2020, 11, 2790-2795.	3.7	19
63	Compressing a Nonplanar Aromatic Heterocyclic [7]Helicene to a Planar Hetero[8]Circulene. Chemistry - A European Journal, 2020, 26, 4935-4940.	1.7	28
64	A Fluorescence-Phosphorescence-Phosphorescence Triple-Channel Emission Strategy for Full-Color Luminescence. Small, 2020, 16, e1906475.	5.2	45
65	Anti-Aromatic versus Induced Paratropicity: Synthesis and Interrogation of a Dihydrodiazatrioxa[9]circulene with a Proton Placed Directly above the Central Ring. Angewandte Chemie - International Edition, 2020, 59, 5144-5150.	7.2	17
66	Anti-Aromatic versus Induced Paratropicity: Synthesis and Interrogation of a Dihydrodiazatrioxa[9]circulene with a Proton Placed Directly above the Central Ring. Angewandte Chemie, 2020, 132, 5182-5188.	1.6	8
67	Flexible diphenylsulfone versus rigid dibenzothiophene-dioxide as acceptor moieties in donor-acceptor-donor TADF emitters for highly efficient OLEDs. Organic Electronics, 2020, 83, 105733.	1.4	11
68	Molecular Phosphorescence in Polymer Matrix with Reversible Sensitivity. ACS Applied Materials & Interfaces, 2020, 12, 20765-20774.	4.0	68
69	Structure, stability and electronic properties of one-dimensional tetrathia- and tetraselena[8]circulene-based materials: a comparative DFT study. New Journal of Chemistry, 2020, 44, 6872-6882.	1.4	5
70	Furans and Their Benzo Derivatives: Structure. , 2020, , 190-190.		1
71	The blue vibronically resolved electroluminescence of azatrioxa[8]circulene. Chemical Physics Letters, 2019, 732, 136667.	1.2	10
72	Structure and excitation-dependent emission of novel zinc complexes with pyridyltriazoles. RSC Advances, 2019, 9, 22143-22152.	1.7	18

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73	Ab Initio Study of Phosphorescence of Hetero[8]Circulenes. Russian Physics Journal, 2019, 62, 406-410.	0.2	2
74	Impact of heteroatoms (S, Se, and Te) on the aromaticity of heterocirculenes. New Journal of Chemistry, 2019, 43, 12178-12190.	1.4	10
75	Cyclo[18]carbon: Insight into Electronic Structure, Aromaticity, and Surface Coupling. Journal of Physical Chemistry Letters, 2019, 10, 6701-6705.	2.1	103
76	Spontaneous Decomposition of Fluorinated Phosphorene and Its Stable Structure. Journal of Physical Chemistry Letters, 2019, 10, 7086-7092.	2.1	5
77	Extended Discrete Interaction Model: Plasmonic Excitations of Silver Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 28867-28880.	1.5	20
78	Crystal Multi-Conformational Control Through Deformable Carbon-Sulfur Bond for Singlet-Triplet Emissive Tuning. Angewandte Chemie - International Edition, 2019, 58, 4328-4333.	7.2	82
79	Crystal Multi-Conformational Control Through Deformable Carbon-Sulfur Bond for Singlet-Triplet Emissive Tuning. Angewandte Chemie, 2019, 131, 4372-4377.	1.6	28
80	Skeletal Rearrangement of Twisted Thia-Norhexaphyrin: Multiply Annulated Polypyrrolic Aromatic Macrocycles. Angewandte Chemie - International Edition, 2019, 58, 5925-5929.	7.2	26
81	Skeletal Rearrangement of Twisted Thia-Norhexaphyrin: Multiply Annulated Polypyrrolic Aromatic Macrocycles. Angewandte Chemie, 2019, 131, 5986-5990.	1.6	4
82	Aromaticity and photophysics of tetrasila- and tetragerma-annelated tetrathienylenes as new representatives of the hetero[8]circulene family. Physical Chemistry Chemical Physics, 2019, 21, 9246-9254.	1.3	19
83	Novel Zinc Complex with an Ethylenediamine Schiff Base for High-Luminance Blue Fluorescent OLED Applications. Journal of Physical Chemistry C, 2019, 123, 11850-11859.	1.5	56
84	Photophysical Constants of the Tetraoxa[8]Circulene Molecule. Russian Physics Journal, 2019, 61, 1759-1763.	0.2	2
85	Experimental and theoretical study of the mechanism formation of silver nanoclusters in the reduction reaction of Ag ⁺ ions by alizarin solution. Colloids and Interface Science Communications, 2019, 29, 47-54.	2.0	4
86	A three-dimensional ratiometric sensing strategy on unimolecular fluorescence-thermally activated delayed fluorescence dual emission. Nature Communications, 2019, 10, 731.	5.8	80
87	Computational study of aromaticity, ¹ H NMR spectra and intermolecular interactions of twisted thia-norhexaphyrin and its multiply annulated polypyrrolic derivatives. Physical Chemistry Chemical Physics, 2019, 21, 25334-25343.	1.3	5
88	A complete characterization of vibrational IR and Raman spectra of the highly-symmetrical octathia[8]circulene. Vibrational Spectroscopy, 2019, 100, 107-116.	1.2	9
89	Multi-channel electroluminescence of CdTe/CdS core-shell quantum dots implemented into a QLED device. Dyes and Pigments, 2019, 162, 647-653.	2.0	23
90	Computational study of the structure and magnetic properties of the weakly-coupled tetranuclear square-planar complex of Cu(II) with a tetraporphyrin sheet. Inorganica Chimica Acta, 2019, 485, 73-79.	1.2	5

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91	Growth of Silver Nanoparticles Using Polythiocyanatohydroquinone in Aqueous Solution. <i>Acta Chimica Slovenica</i> , 2019, 66, 427-434.	0.2	2
92	Growth of Silver Nanoparticles Using Polythiocyanatohydroquinone in Aqueous Solution. <i>Acta Chimica Slovenica</i> , 2019, 66, 427-434.	0.2	1
93	The Electronic Structure and Spectra of Triphenylamines Functionalized by Phenylethynyl Groups. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2018, 124, 57-64.	0.2	1
94	First-principles method for calculating the rate constants of internal-conversion and intersystem-crossing transitions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6121-6133.	1.3	79
95	Optical tuning of tetrabenzo[8]circulene derivatives through pseudorotational conformational isomerization. <i>Dyes and Pigments</i> , 2018, 151, 372-379.	2.0	5
96	Contribution of TADF and exciplex emission for efficient warm-white OLEDs. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1543-1550.	2.7	64
97	One-step solvothermal synthesis of high-emissive amphiphilic carbon dots via rigidity derivation. <i>Chemical Science</i> , 2018, 9, 1323-1329.	3.7	71
98	Relations between the aromaticity and magnetic dipole transitions in the electronic spectra of hetero[8]circulenes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30239-30246.	1.3	16
99	Anti-Kasha's Rule Emissive Switching Induced by Intermolecular H-Bonding. <i>Chemistry of Materials</i> , 2018, 30, 8008-8016.	3.2	75
100	Strong Topological States and High Charge Carrier Mobility in Tetraoxa[8]circulene Nanosheets. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22216-22222.	1.5	25
101	Identification of tautomeric intermediates of a novel thiazolylazonaphthol dye – A density functional theory study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 203, 324-332.	2.0	4
102	Vibronic absorption spectra of the angular fused bisindolo- and biscarbazoloanthracene blue fluorophores for OLED applications. <i>Chemical Physics</i> , 2018, 513, 105-111.	0.9	6
103	Synthesis and photophysical properties of Zn(II) Schiff base complexes possessing strong solvent-dependent solid-state fluorescence. <i>Polyhedron</i> , 2018, 155, 202-208.	1.0	20
104	A theoretical study of new representatives of closed- and open-circle benzofuran and benzocyclopentadienone oligomers. <i>New Journal of Chemistry</i> , 2018, 42, 11493-11505.	1.4	11
105	Recent progress in quantum chemistry of hetero[8]circulenes. <i>Molecular Physics</i> , 2017, 115, 2218-2230.	0.8	28
106	A computational study of aromaticity and photophysical properties of unsymmetrical azatrioxa[8]circulenes. <i>New Journal of Chemistry</i> , 2017, 41, 2717-2723.	1.4	16
107	Calculation of the optical spectra of the copper(I) complex with triphenylphosphine, iodine, and 3-pyridine-2-yl-5-phenyl-1H-1,2,4-triazole by the DFT method. <i>Optics and Spectroscopy (English)</i> Tj ETQq1 1 0.784314 rgBT /@verlock	1.4	16
108	A computational study of structural and magnetic properties of bi- and trinuclear Cu(II) complexes with extremely long Cu–Cu distances. <i>Chemical Physics</i> , 2017, 491, 48-55.	0.9	12

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109	Synthesis and luminescent properties of copper(I) complexes with 3-pyridin-2-yl-5-(4-R-phenyl)-1H-1,2,4-triazoles. <i>Russian Journal of Inorganic Chemistry</i> , 2017, 62, 423-430.	0.3	5
110	Synthesis and characterisation of a carbazole-based bipolar exciplex-forming compound for efficient and color-tunable OLEDs. <i>New Journal of Chemistry</i> , 2017, 41, 559-568.	1.4	34
111	Substituent-sensitive fluorescence of sequentially N-alkylated tetrabenzotetraaza[8]circulenes. <i>New Journal of Chemistry</i> , 2017, 41, 7621-7625.	1.4	9
112	BaZrO ₃ perovskite nanoparticles as emissive material for organic/inorganic hybrid light-emitting diodes. <i>Dyes and Pigments</i> , 2017, 145, 399-403.	2.0	9
113	Comparative study of the structural and spectral properties of tetraaza- and tetraoxaannelated tetracirculenes. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017, 122, 523-540.	0.2	6
114	New WOLEDs based on π -extended azatrioxa[8]circulenes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4123-4128.	2.7	28
115	Theory and Calculation of the Phosphorescence Phenomenon. <i>Chemical Reviews</i> , 2017, 117, 6500-6537.	23.0	420
116	Solvatochromic effect in absorption and emission spectra of star-shaped bipolar derivatives of 1,3,5-triazine and carbazole. A time-dependent density functional study. <i>Journal of Molecular Modeling</i> , 2017, 23, 55.	0.8	11
117	Nine-ring angular fused bis-carbazoloanthracene displaying a solid state based excimer emission suitable for OLED application. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5795-5805.	2.7	33
118	Highly Luminous Sky-Blue Organic Light-Emitting Diodes Based on the Bis[(1,2)(5,6)]indoloanthracene Emissive Layer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6206-6217.	1.5	45
119	Computational study of the structure, UV-vis absorption spectra and conductivity of biphenylene-based polymers and their boron nitride analogues. <i>RSC Advances</i> , 2016, 6, 49505-49516.	1.7	24
120	Benzoannelated aza-, oxa- and azaoxa[8]circulenes as promising blue organic emitters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28040-28051.	1.3	54
121	Anion-induced exchange interactions in binuclear complexes of Cu(II) with flexible hexadentate bispicolylamidrazone ligands. <i>Chemical Physics Letters</i> , 2016, 661, 48-52.	1.2	9
122	Analysis of the electronic, IR, and ¹ H NMR spectra of conjugated oligomers based on 4,4'-triphenylamine vinylene. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2016, 121, 348-356.	0.2	4
123	Quantum-chemical study of the structure and magnetic properties of mono- and binuclear Cu(II) complexes with 1,3-bis(3-(pyrimidin-2-yl)-1H-1,2,4-triazol-5-yl)propane. <i>Russian Journal of Inorganic Chemistry</i> , 2016, 61, 588-593.	0.3	9
124	Aromaticity of the doubly charged [8]circulenes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8980-8992.	1.3	34
125	The effect of a heteroatom on the structure and vibrational spectra of Heteroannelated tetraphenylenes. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2015, 119, 620-632.	0.2	4
126	Electronic structure, aromaticity and spectra of hetero[8]circulenes. <i>Russian Chemical Reviews</i> , 2015, 84, 455-484.	2.5	46

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127	Temperature effects in low-frequency Raman spectra of corticosteroid hormones. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 118, 214-223.	0.2	10
128	Quantum-chemical investigation of the structure and electronic absorption spectra of symmetric triphenylamine oligomers conjugated to vinylene, imine, azine, and ethynylene groups. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 118, 703-710.	0.2	2
129	Structure and spectral and luminescence properties of the trinuclear zinc complex with (E)-5-((2,6-diethylphenylimino)methyl)-2-methylquinolin-8-ol: Experimental and DFT study. Russian Journal of Inorganic Chemistry, 2015, 60, 1560-1567.	0.3	6
130	Alkali and alkaline-earth metal complexes with tetraoxa[8]circulene sheet: a computational study by DFT and QTAIM methods. RSC Advances, 2015, 5, 24299-24305.	1.7	28
131	Synthesis and properties of synthetic fulvic acid derived from hematoxylin. Journal of Molecular Structure, 2015, 1086, 25-33.	1.8	19
132	DFT simulation of the heteroannulated octatetraenes vibronic spectra with the Franck-Condon and Herzberg-Teller approaches including Duschinsky effect. Chemical Physics, 2015, 459, 65-71.	0.9	22
133	A DFT and QTAIM study of the novel d-block metal complexes with tetraoxa[8]circulene-based ligands. New Journal of Chemistry, 2015, 39, 7815-7821.	1.4	33
134	Structure and spectroscopic characterization of tetrathia- and tetraselena[8]circulenes as a new class of polyaromatic heterocycles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 151, 247-261.	2.0	22
135	Aromaticity of the completely annulated tetraphenylenes: NICS and GIMIC characterization. Journal of Molecular Modeling, 2015, 21, 136.	0.8	34
136	Synthesis and spectroscopic characterization of a new (aryl-SCN) _n polymer: Polythiocyanatohydroquinone. Journal of Molecular Structure, 2015, 1096, 15-20.	1.8	3
137	Features of terahertz adsorption and Raman scattering of mineralocorticoid hormones. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 1196-1201.	0.1	4
138	Absolute effective cross sections of ionization of adenine and guanine molecules by electron impact. Technical Physics, 2015, 60, 1430-1436.	0.2	7
139	N-annulated perylenes as effective green emitters for OLEDs. RSC Advances, 2015, 5, 78150-78159.	1.7	21
140	Mixing of Phosphorescent and Exciplex Emission in Efficient Organic Electroluminescent Devices. ACS Applied Materials & Interfaces, 2015, 7, 1219-1225.	4.0	78
141	Tetrathio and Tetraselena[8]circulenes: Synthesis, Structures, and Properties. Chemistry - an Asian Journal, 2015, 10, 969-975.	1.7	52
142	Efficient "Warm-White" OLEDs Based on the Phosphorescent bis-Cyclometalated iridium(III) Complex. Journal of Physical Chemistry C, 2014, 118, 11271-11278.	1.5	73
143	The Electronic Structure of Heteroannulated Cyclooctatetraenes and their UV-Vis Absorption Spectra. Chemistry of Heterocyclic Compounds, 2014, 50, 349-363.	0.6	15
144	Principles of phosphorescent organic light emitting devices. Physical Chemistry Chemical Physics, 2014, 16, 1719-1758.	1.3	398

#	ARTICLE	IF	CITATIONS
145	Design of nanoscaled materials based on tetraoxa[8]circulene. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6555.	1.3	48
146	A comparative study of the electronic structure and spectra of tetraoxa[8]circulene and octathio[8]circulene. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2014, 116, 33-46.	0.2	26
147	The art of the possible: computational design of the 1D and 2D materials based on the tetraoxa[8]circulene monomer. <i>RSC Advances</i> , 2014, 4, 25843-25851.	1.7	50
148	DFT characterization of a new possible graphene allotrope. <i>Chemical Physics Letters</i> , 2014, 612, 229-233.	1.2	54
149	Fragmentation of the adenine and guanine molecules induced by electron collisions. <i>Journal of Chemical Physics</i> , 2014, 140, 175101.	1.2	42
150	A study of the role played by the Hartree-Fock orbital exchange in the formation of the energy of the first singlet charge-transfer excited state by the example of JK-62 and JK-201 sensitizing dye molecules. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2014, 116, 431-437.	0.2	4
151	Aromaticity of the planar hetero[8]circulenes and their doubly charged ions: NICS and GIMIC characterization. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15367-15374.	1.3	69
152	Raman spectra of alkyl-substituted azaoxa[8]circulenes: DFT calculation and experiment. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2013, 114, 509-521.	0.2	10
153	Highly Efficient Blue Organic Light-Emitting Diodes Based on Intermolecular Triplet-Singlet Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22538-22544.	1.5	65
154	Structure of zinc complexes with 3-(pyridin-2-yl)-5-(arylideneiminophenyl)-1H-1,2,4-triazoles in different tautomeric forms: DFT and QTAIM study. <i>Russian Journal of Inorganic Chemistry</i> , 2013, 58, 928-934.	0.3	24
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156	Nucleus-independent chemical shift criterion for aromaticity in π -extended tetraoxa[8]circulenes. <i>Journal of Molecular Modeling</i> , 2013, 19, 847-850.	0.8	50
157	Diazadioxa[8]circulenes: Planar Antiaromatic Cyclooctatetraenes. <i>Chemistry - A European Journal</i> , 2013, 19, 17097-17102.	1.7	80
158	Azatrioxa[8]circulenes: Planar Antiaromatic Cyclooctatetraenes. <i>Chemistry - A European Journal</i> , 2013, 19, 3898-3904.	1.7	78
159	The FTIR spectra of substituted tetraoxa[8]circulenes and their assignments based on DFT calculations. <i>Vibrational Spectroscopy</i> , 2013, 65, 147-158.	1.2	26
160	Quantum-chemical investigation of the structure and electronic absorption spectra of electroluminescent zinc complexes. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2013, 114, 509-521.	0.2	10
161	Analysis of intermolecular interactions in progesterone and 17 β -hydroxyprogesterone crystals. , 2013, , .		0
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166	DFT and QTAIM study of the tetra-tert-butyltetraoxa[8]circulene regioisomers structure. <i>Journal of Molecular Structure</i> , 2012, 1026, 127-132.	1.8	35
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169	Electronic structure and spectral properties of the triarylamine-dithienosilole dyes for efficient organic solar cells. <i>Dyes and Pigments</i> , 2012, 92, 531-536.	2.0	53
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171	Experimental and theoretical study of IR and Raman spectra of tetraoxa[8]circulenes. <i>Vibrational Spectroscopy</i> , 2012, 61, 156-166.	1.2	51
172	Structure and spectral properties of truxene dye S5. <i>Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 T</i>	0.2	20
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175	Quantum-chemical study of effect of conjugation on structure and spectral properties of C105 sensitizing dye. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011, 110, 393-400.	0.2	19
176	Stabilizing hydrogen-hydrogen interactions in cationic indopolycarbocyanine dyes. <i>Journal of Structural Chemistry</i> , 2011, 52, 1051-1056.	0.3	11
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185	Terahertz time-domain spectroscopy of testosterone, estradiol and estriol. , 2010, , .		1
186	Vibrational spectra of corticosteroid hormones in the terahertz range. <i>Proceedings of SPIE</i> , 2010, , .	0.8	3
187	Theoretical study of vibration spectra of sensitizing dyes for photoelectrical converters based on ruthenium(II) and iridium(III) complexes. <i>Russian Journal of Applied Chemistry</i> , 2009, 82, 1211-1221.	0.1	19
188	Syntheses of thiophene appended N-confused phlorin isomers. <i>Journal of Porphyrins and Phthalocyanines</i> , 0, , A-G.	0.4	1
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