Gleb Baryshnikov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178 papers	3,433 citations	30 h-index	50 g-index
194 ext. papers	4,237 ext. citations	5.3 avg, IF	5.82 L-index

#	Paper	IF	Citations
178	Crystal structure and Hirshfeld surfaces analysis of Heterocyclic-and circulenes. *MATEC Web of Conferences*, **2022**, 355, 01020	0.3	0
177	Large red-shifted NIR absorption in azulenyl- and iodinated-modified BODIPYs sensitive to aggregation and protonation stimuli. *Dyes and Pigments*, **2022**, 197, 109867	4.6	2
176	Aromaticity of Heterocirculenes. *Chemistry*, **2021**, 3, 1411-1436	2.1	1
175	Shape Preserving Single Crystal to Amorphous to Single Crystal Polymorphic Transformation Is Possible. *Journal of the American Chemical Society*, **2021**, 143, 20202-20206	16.4	
174	Making Nitronaphthalene Fluoresce. *Journal of Physical Chemistry Letters*, **2021**, 12, 10295-10303	6.4	4
173	Confusion Approach Modulated Syntheses of Corrorin Parasitized Hexaphyrins(1.1.1.1.1.0) and the Oxidative Ring Cleavage Behavior. *Organic Letters*, **2021**, 23, 8307-8311	6.2	2
172	Fluorenyl Indoline as an Efficient Electron Donor for Concerted Companion Dyes: Enhanced Light-Harvesting and Photocurrent. *ACS Applied Materials & Interfaces*, **2021**, 13, 49828-49839	9.5	1
171	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	6.6	4
170	Simultaneous anchoring of Ni nanoparticles and single-atom Ni on BCN matrix promotes efficient conversion of nitrate in water into high-value-added ammonia. *Chemical Engineering Journal*, **2021**, 133190	14.7	4
169	Multidimensional Structure Conformation of Persulfurated Benzene for Highly Efficient Phosphorescence. *ACS Applied Materials & Interfaces*, **2021**, 13, 1314-1322	9.5	8
168	Dianthracenylazatrioxa[8]circulene: Synthesis, Characterization and Application in OLEDs. *Chemistry - A European Journal*, **2021**, 27, 11609-11617	4.8	4
167	Visualizing Material Processing via Photoexcitation-Controlled Organic-Phase Aggregation-Induced Emission. *Research*, **2021**, 2021, 9862093	7.8	3
166	Enhancing the Operability of Photoexcitation-Controlled Aggregation-Induced Emissive Molecules in the Organic Phase. *Journal of Physical Chemistry Letters*, **2021**, 12, 6182-6189	6.4	4
165	Impact of molecular and packing structure on the charge-transport properties of hetero[8]circulenes. *Journal of Materials Chemistry C*, **2021**, 9, 1451-1466	7.1	3
164	Nucleotide Interaction with a Chitosan Layer on a Silica Surface: Establishing the Mechanism at the Molecular Level. *Langmuir*, **2021**, 37, 1511-1520	4	4
163	Manipulating crystals through photoexcitation-induced molecular realignment. *Journal of Materials Chemistry C*, **2021**, 9, 11707-11714	7.1	5
162	Lighting up solid states using a rubber. *Nature Communications*, **2021**, 12, 908	17.4	6

161	Schiff Base Zinc(II) Complexes as Promising Emitters for Blue Organic Light-Emitting Diodes. *ACS Applied Electronic Materials*, **2021**, 3, 3436-3444	4	1
160	Quadrupolar Dyes Based on Highly Polarized Coumarins. *Organic Letters*, **2021**, 23, 6770-6774	6.2	0
159	Photoinduced Radical Emission in a Coassembly System. *Angewandte Chemie - International Edition*, **2021**, 60, 23842-23848	16.4	5
158	Photoinduced Radical Emission in a Coassembly System. *Angewandte Chemie*, **2021**, 133, 24035	3.6	0
157	Stable thiophene-embedded N-confused homoporphyrins: Partial conjugation, fusion and fluoride binding. *Dyes and Pigments*, **2021**, 194, 109612	4.6	0
156	Persistent radical pairs trigger nano-gold to highly efficiently and highly selectively drive the value-added conversion of nitroaromatics. *Chem Catalysis*, **2021**, 1, 1118-1118		4
155	Polymorph acceptor-based triads with photoinduced TADF for UV sensing. *Chemical Engineering Journal*, **2021**, 425, 131549	14.7	2
154	A hybrid molecular sensitizer for triplet fusion upconversion. *Chemical Engineering Journal*, **2021**, 426, 131282	14.7	0
153	Single-layer polymeric tetraoxa[8]circulene modified by s-block metals: toward stable spin qubits and novel superconductors. *Nanoscale*, **2021**, 13, 4799-4811	7.7	2
152	Aromaticity of Even-Number Cyclo[]carbons (= 6-100). *Journal of Physical Chemistry A*, **2020**, 124, 10849-10855	2.8	12
151	Deciphering the unusual fluorescence in weakly coupled bis-nitro-pyrrolo[3,2-b]pyrroles. *Communications Chemistry*, **2020**, 3,	6.3	13
150	N-Confused Hexapyrrolic Phlorinoid with NIR Absorption: Synthesis, Fusion, Oxidation, and Copper(II) Coordination. *Organic Letters*, **2020**, 22, 9648-9652	6.2	1
149	Potassium ions promote electrochemical nitrogen reduction on nano-Au catalysts triggered by bifunctional boron supramolecular assembly. *Journal of Materials Chemistry A*, **2020**, 8, 13086-13094	13	29
148	BCN-Encapsulated Nano-nickel Synergistically Promotes Ambient Electrochemical Dinitrogen Reduction. *ACS Applied Materials & Interfaces*, **2020**, 12, 31419-31430	9.5	23
147	Rational Synthesis of 5,5,5-Tricyclic Fused Thia-heptaphyrin (1.1.1.1.1.1.0) From a Helical Oligopyrrin Hybrid. *Chemistry - an Asian Journal*, **2020**, 15, 1285-1289	4.5	2
146	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	3.6	4
145	Benzoselenophenylpyridine platinum complexes: green versus red phosphorescence towards hybrid OLEDs. *Dalton Transactions*, **2020**, 49, 3393-3397	4.3	13
144	Theoretical Study of Nonradiative Energy Transfer from Exciplex to Perovskites. *Russian Physics Journal*, **2020**, 62, 1911-1916	0.7	0

143	Engineering stable radicals using photochromic triggers. *Nature Communications*, **2020**, 11, 945	17.4	14
142	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	16.4	27
141	Tripyrrin-armed isosmaragdyrins: synthesis, heterodinuclear coordination, and protonation-triggered helical inversion. *Chemical Science*, **2020**, 11, 2790-2795	9.4	5
140	Compressing a Non-Planar Aromatic Heterocyclic [7]Helicene to a Planar Hetero[8]Circulene. *Chemistry - A European Journal*, **2020**, 26, 4935-4940	4.8	14
139	A Fluorescence-Phosphorescence-Phosphorescence Triple-Channel Emission Strategy for Full-Color Luminescence. *Small*, **2020**, 16, e1906475	11	19
138	Anti-Aromatic versus Induced Paratropicity: Synthesis and Interrogation of a Dihydro-diazatrioxa[9]circulene with a Proton Placed Directly above the Central Ring. *Angewandte Chemie - International Edition*, **2020**, 59, 5144-5150	16.4	11
137	Anti-Aromatic versus Induced Paratropicity: Synthesis and Interrogation of a Dihydro-diazatrioxa[9]circulene with a Proton Placed Directly above the Central Ring. *Angewandte Chemie*, **2020**, 132, 5182-5188	3.6	7
136	Flexible diphenylsulfone versus rigid dibenzothiophene-dioxide as acceptor moieties in donor-acceptor-donor TADF emitters for highly efficient OLEDs. *Organic Electronics*, **2020**, 83, 105733	3.5	5
135	Molecular Phosphorescence in Polymer Matrix with Reversible Sensitivity. *ACS Applied Materials & Interfaces*, **2020**, 12, 20765-20774	9.5	26
134	Furans and Their Benzo Derivatives: Structure **2020**, 190-190		1
133	N-Confused Phlorin-Prodigiosin Chimera: meso-Aryl Oxidation and Extension Triggered by Peripheral Coordination. *Angewandte Chemie - International Edition*, **2020**, 59, 1537-1541	16.4	19
132	The effect of molecular structure on the properties of quinoxaline-based molecules for OLED applications. *Dyes and Pigments*, **2020**, 173, 108008	4.6	15
131	BODIPY-core 1,7-diphenyl-substituted derivatives for photovoltaics and OLED applications. *Dyes and Pigments*, **2020**, 175, 108123	4.6	14
130	Hydrophobic boron organic polymers: Ultra-high capacity of enrichment and storage for chloroform. *Chemical Engineering Journal*, **2020**, 385, 123827	14.7	5
129	N-Confused Phlorin-Prodigiosin Chimera: meso-Aryl Oxidation and Extension Triggered by Peripheral Coordination. *Angewandte Chemie*, **2020**, 132, 1553-1557	3.6	2
128	Expanded N-Confused Phlorin: A Platform for a Multiply Fused Polycyclic Ring System via Oxidation within the Macrocycle. *Journal of the American Chemical Society*, **2020**, 142, 17195-17205	16.4	8
127	Twisted-Planar-Twisted expanded porphyrinoid dimer as a rudimentary reaction-based methanol indicator. *Nature Communications*, **2020**, 11, 5289	17.4	5
126	Structure and tuneable luminescence in polymeric zinc compounds based on 3-(3-pyridyl)-5-(4-pyridyl)-1,2,4-triazole. *Polyhedron*, **2020**, 191, 114768	2.7	10

125	Integrating Time-Resolved Imaging Information by Single-Luminophore Dual Thermally Activated Delayed Fluorescence. *Angewandte Chemie*, **2020**, 132, 17166-17173	3.6	7
124	Integrating Time-Resolved Imaging Information by Single-Luminophore Dual Thermally Activated Delayed Fluorescence. *Angewandte Chemie - International Edition*, **2020**, 59, 17018-17025	16.4	29
123	Can attachment of tert-butyl substituents to methoxycarbazole moiety induce efficient TADF in diphenylsulfone-based blue OLED emitters?. *Organic Electronics*, **2020**, 86, 105894	3.5	4
122	A Fully Conjugated Planar Heterocyclic [9]Circulene. *Journal of the American Chemical Society*, **2020**, 142, 14058-14063	16.4	15
121	Efficient Ambient Electrocatalytic Ammonia Synthesis by Nanogold Triggered via Boron Clusters Combined with Carbon Nanotubes. *ACS Applied Materials & Interfaces*, **2020**, 12, 42821-42831	9.5	19
120	When are Antiaromatic Molecules Paramagnetic?. *Journal of Physical Chemistry C*, **2020**, 124, 21027-21035	3.7	13
119	First-principles calculations of anharmonic and deuteration effects on the photophysical properties of polyacenes and porphyrinoids. *Physical Chemistry Chemical Physics*, **2020**, 22, 22314-22323	3.6	15
118	R□ktitelbild: Integrating Time-Resolved Imaging Information by Single-Luminophore Dual Thermally Activated Delayed Fluorescence (Angew. Chem. 39/2020). *Angewandte Chemie*, **2020**, 132, 17456-17456	3.6	
117	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	3.6	2
116	Crystal Multi-Conformational Control Through Deformable Carbon-Sulfur Bond for Singlet-Triplet Emissive Tuning. *Angewandte Chemie - International Edition*, **2019**, 58, 4328-4333	16.4	51
115	Crystal Multi-Conformational Control Through Deformable Carbon-Sulfur Bond for Singlet-Triplet Emissive Tuning. *Angewandte Chemie*, **2019**, 131, 4372-4377	3.6	18
114	Skeletal Rearrangement of Twisted Thia-Norhexaphyrin: Multiply Annulated Polypyrrolic Aromatic Macrocycles. *Angewandte Chemie - International Edition*, **2019**, 58, 5925-5929	16.4	16
113	Skeletal Rearrangement of Twisted Thia-Norhexaphyrin: Multiply Annulated Polypyrrolic Aromatic Macrocycles. *Angewandte Chemie*, **2019**, 131, 5986-5990	3.6	2
112	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	3.6	16
111	Novel Zinc Complex with an Ethylenediamine Schiff Base for High-Luminance Blue Fluorescent OLED Applications. *Journal of Physical Chemistry C*, **2019**, 123, 11850-11859	3.8	37
110	Photophysical Constants of the Tetraoxa[8]Circulene Molecule. *Russian Physics Journal*, **2019**, 61, 1759-1763	0.7	2
109	The blue vibronically resolved electroluminescence of azatrioxa[8]circulene. *Chemical Physics Letters*, **2019**, 732, 136667	2.5	7
108	Structure and excitation-dependent emission of novel zinc complexes with pyridyltriazoles.. *RSC Advances*, **2019**, 9, 22143-22152	3.7	8

107	Ab Initio Study of Phosphorescence of Hetero[8]Circulenes. *Russian Physics Journal*, **2019**, 62, 406-410	0.7	1
106	Impact of heteroatoms (S, Se, and Te) on the aromaticity of heterocirculenes. *New Journal of Chemistry*, **2019**, 43, 12178-12190	3.6	4
105	Cyclo[18]carbon: Insight into Electronic Structure, Aromaticity, and Surface Coupling. *Journal of Physical Chemistry Letters*, **2019**, 10, 6701-6705	6.4	57
104	Spontaneous Decomposition of Fluorinated Phosphorene and Its Stable Structure. *Journal of Physical Chemistry Letters*, **2019**, 10, 7086-7092	6.4	3
103	Extended Discrete Interaction Model: Plasmonic Excitations of Silver Nanoparticles. *Journal of Physical Chemistry C*, **2019**, 123, 28867-28880	3.8	9
102	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	5.4	4
101	A three-dimensional ratiometric sensing strategy on unimolecular fluorescence-thermally activated delayed fluorescence dual emission. *Nature Communications*, **2019**, 10, 731	17.4	55
100	Computational study of aromaticity, H NMR spectra and intermolecular interactions of twisted thia-norhexaphyrin and its multiply annulated polypyrrolic derivatives. *Physical Chemistry Chemical Physics*, **2019**, 21, 25334-25343	3.6	3
99	A complete characterization of vibrational IR and Raman spectra of the highly-symmetrical octathia[8]circulene. *Vibrational Spectroscopy*, **2019**, 100, 107-116	2.1	9
98	Multi-channel electroluminescence of CdTe/CdS core-shell quantum dots implemented into a QLED device. *Dyes and Pigments*, **2019**, 162, 647-653	4.6	17
97	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	2.7	4
96	The Electronic Structure and Spectra of Triphenylamines Functionalized by Phenylethynyl Groups. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2018**, 124, 57-64	0.7	1
95	First-principles method for calculating the rate constants of internal-conversion and intersystem-crossing transitions. *Physical Chemistry Chemical Physics*, **2018**, 20, 6121-6133	3.6	50
94	Optical tuning of tetrabenzo[8]circulene derivatives through pseudorotational conformational isomerization. *Dyes and Pigments*, **2018**, 151, 372-379	4.6	4
93	Contribution of TADF and exciplex emission for efficient warm-white OLEDs. *Journal of Materials Chemistry C*, **2018**, 6, 1543-1550	7.1	59
92	Vibronic absorption spectra of the angular fused bisindolo- and biscarbazoloanthracene blue fluorophores for OLED applications. *Chemical Physics*, **2018**, 513, 105-111	2.3	2
91	Synthesis and photophysical properties of Zn(II) Schiff base complexes possessing strong solvent-dependent solid-state fluorescence. *Polyhedron*, **2018**, 155, 202-208	2.7	16
90	A theoretical study of new representatives of closed- and open-circle benzofuran and benzocyclopentadienone oligomers. *New Journal of Chemistry*, **2018**, 42, 11493-11505	3.6	9

89	One-step solvothermal synthesis of high-emissive amphiphilic carbon dots rigidity derivation. *Chemical Science*, **2018**, 9, 1323-1329	9.4	49
88	Relations between the aromaticity and magnetic dipole transitions in the electronic spectra of hetero[8]circulenes. *Physical Chemistry Chemical Physics*, **2018**, 20, 30239-30246	3.6	10
87	Anti-Kasha Rule Emissive Switching Induced by Intermolecular H-Bonding. *Chemistry of Materials*, **2018**, 30, 8008-8016	9.6	53
86	Strong Topological States and High Charge Carrier Mobility in Tetraoxa[8]circulene Nanosheets. *Journal of Physical Chemistry C*, **2018**, 122, 22216-22222	3.8	17
85	Identification of tautomeric intermediates of a novel thiazolylazonaphthol dye - A density functional theory study. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 203, 324-332	4.4	4
84	Recent progress in quantum chemistry of hetero[8]circulenes. *Molecular Physics*, **2017**, 115, 2218-2230	1.7	22
83	A computational study of aromaticity and photophysical properties of unsymmetrical azatrioxa[8]circulenes. *New Journal of Chemistry*, **2017**, 41, 2717-2723	3.6	15
82	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. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2017**, 122, 175-183	0.7	2
81	A computational study of structural and magnetic properties of bi- and trinuclear Cu(II) complexes with extremely long Cu---Cu distances. *Chemical Physics*, **2017**, 491, 48-55	2.3	10
80	Synthesis and luminescent properties of copper(I) complexes with 3-pyridin-2-yl-5-(4-R-phenyl)-1H-1,2,4-triazoles. *Russian Journal of Inorganic Chemistry*, **2017**, 62, 423-430	1.5	4
79	Synthesis and characterisation of a carbazole-based bipolar exciplex-forming compound for efficient and color-tunable OLEDs. *New Journal of Chemistry*, **2017**, 41, 559-568	3.6	25
78	Substituent-sensitive fluorescence of sequentially N-alkylated tetrabenzotetraaza[8]circulenes. *New Journal of Chemistry*, **2017**, 41, 7621-7625	3.6	9
77	BaZrO 3 perovskite nanoparticles as emissive material for organic/inorganic hybrid light-emitting diodes. *Dyes and Pigments*, **2017**, 145, 399-403	4.6	7
76	Comparative study of the structural and spectral properties of tetraaza- and tetraoxaannelated tetracirculenes. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2017**, 122, 523-540	0.7	6
75	New WOLEDs based on extended azatrioxa[8]circulenes. *Journal of Materials Chemistry C*, **2017**, 5, 4123-4128	7.1	21
74	Theory and Calculation of the Phosphorescence Phenomenon. *Chemical Reviews*, **2017**, 117, 6500-6537	68.1	289
73	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. *Journal of Molecular Modeling*, **2017**, 23, 55	2	10
72	Benzoannelated aza-, oxa- and azaoxa[8]circulenes as promising blue organic emitters. *Physical Chemistry Chemical Physics*, **2016**, 18, 28040-28051	3.6	45

71	Anion-induced exchange interactions in binuclear complexes of Cu(II) with flexible hexadentate bispicolylamidrazone ligands. *Chemical Physics Letters*, **2016**, 661, 48-52	2.5	8
70	Analysis of the electronic, IR, and 1H NMR spectra of conjugated oligomers based on 4,4'-triphenylamine vinylene. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2016**, 121, 348-356	0.7	4
69	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. *Russian Journal of Inorganic Chemistry*, **2016**, 61, 588-593	1.5	9
68	Aromaticity of the doubly charged [8]circulenes. *Physical Chemistry Chemical Physics*, **2016**, 18, 8980-92	3.6	27
67	Nine-ring angular fused biscarbazoloanthracene displaying a solid state based excimer emission suitable for OLED application. *Journal of Materials Chemistry C*, **2016**, 4, 5795-5805	7.1	30
66	Highly Luminous Sky-Blue Organic Light-Emitting Diodes Based on the Bis[(1,2)(5,6)]indoloanthracene Emissive Layer. *Journal of Physical Chemistry C*, **2016**, 120, 6206-6217	3.8	40
65	Computational study of the structure, UV-vis absorption spectra and conductivity of biphenylene-based polymers and their boron nitride analogues. *RSC Advances*, **2016**, 6, 49505-49516	3.7	15
64	DFT simulation of the heteroannelated octatetraenes vibronic spectra with the Franck□Condon and Herzberg□Teller approaches including Duschinsky effect. *Chemical Physics*, **2015**, 459, 65-71	2.3	21
63	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	3.6	25
62	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, 247-61	4.4	21
61	Aromaticity of the completely annelated tetraphenylenes: NICS and GIMIC characterization. *Journal of Molecular Modeling*, **2015**, 21, 136	2	29
60	Synthesis and spectroscopic characterization of a new (aryl-SCN)n polymer: Polythiocyanatohydroquinone. *Journal of Molecular Structure*, **2015**, 1096, 15-20	3.4	2
59	Features of terahertz adsorption and Raman scattering of mineralocorticoid hormones. *Bulletin of the Russian Academy of Sciences: Physics*, **2015**, 79, 1196-1201	0.4	2
58	Absolute effective cross sections of ionization of adenine and guanine molecules by electron impact. *Technical Physics*, **2015**, 60, 1430-1436	0.5	5
57	N-annelated perylenes as effective green emitters for OLEDs. *RSC Advances*, **2015**, 5, 78150-78159	3.7	21
56	Mixing of phosphorescent and exciplex emission in efficient organic electroluminescent devices. *ACS Applied Materials & Interfaces*, **2015**, 7, 1219-25	9.5	74
55	Tetrathio and tetraseleno[8]circulenes: synthesis, structures, and properties. *Chemistry - an Asian Journal*, **2015**, 10, 969-75	4.5	43
54	The effect of a heteroatom on the structure and vibrational spectra of Heteroannulated tetraphenylenes. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2015**, 119, 620-632	0.7	3

53	Electronic structure, aromaticity and spectra of hetero[8]circulenes. *Russian Chemical Reviews*, **2015**, 84, 455-484	6.8	34
52	Temperature effects in low-frequency Raman spectra of corticosteroid hormones. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2015**, 118, 214-223	0.7	8
51	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	0.7	2
50	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	1.5	6
49	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	3.7	24
48	Synthesis and properties of synthetic fulvic acid derived from hematoxylin. *Journal of Molecular Structure*, **2015**, 1086, 25-33	3.4	13
47	Efficient White OLEDs Based on the Phosphorescent bis-Cyclometalated iridium(III) Complex. *Journal of Physical Chemistry C*, **2014**, 118, 11271-11278	3.8	66
46	The Electronic Structure of Heteroannelated Cyclooctatetraenes and their UV-Vis Absorption Spectra. *Chemistry of Heterocyclic Compounds*, **2014**, 50, 349-363	1.4	14
45	Principles of phosphorescent organic light emitting devices. *Physical Chemistry Chemical Physics*, **2014**, 16, 1719-58	3.6	327
44	Design of nanoscaled materials based on tetraoxa[8]circulene. *Physical Chemistry Chemical Physics*, **2014**, 16, 6555-9	3.6	42
43	A comparative study of the electronic structure and spectra of tetraoxa[8]circulene and octathio[8]circulene. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2014**, 116, 33-46	0.7	26
42	The art of the possible: computational design of the 1D and 2D materials based on the tetraoxa[8]circulene monomer. *RSC Advances*, **2014**, 4, 25843-25851	3.7	44
41	DFT characterization of a new possible graphene allotrope. *Chemical Physics Letters*, **2014**, 612, 229-233	2.5	36
40	Fragmentation of the adenine and guanine molecules induced by electron collisions. *Journal of Chemical Physics*, **2014**, 140, 175101	3.9	33
39	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. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2014**, 116, 431-437	0.7	4
38	Aromaticity of the planar hetero[8]circulenes and their doubly charged ions: NICS and GIMIC characterization. *Physical Chemistry Chemical Physics*, **2014**, 16, 15367-74	3.6	59
37	Raman spectra of alkyl-substituted azaoxa[8]circulenes: DFT calculation and experiment. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 114, 509-521	0.7	10
36	Highly Efficient Blue Organic Light-Emitting Diodes Based on Intermolecular Triplet–Singlet Energy Transfer. *Journal of Physical Chemistry C*, **2013**, 117, 22538-22544	3.8	58

35	Structure of zinc complexes with 3-(pyridin-2-yl)-5-(arylideneiminophenyl)-1H-1,2,4-triazoles in different tautomeric forms: DFT and QTAIM study. *Russian Journal of Inorganic Chemistry*, **2013**, 58, 928-934	1.5	21
34	Structure and electronic absorption spectra of isotruxene dyes for dye-sensitized solar cells: Investigation by the DFT, TDDFT, and QTAIM methods. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 115, 484-490	0.7	8
33	Nucleus-independent chemical shift criterion for aromaticity in extended tetraoxa[8]circulenes. *Journal of Molecular Modeling*, **2013**, 19, 847-50	2	43
32	Diazadioxa[8]circulenes: planar antiaromatic cyclooctatetraenes. *Chemistry - A European Journal*, **2013**, 19, 17097-102	4.8	74
31	Azatrioxa[8]circulenes: planar anti-aromatic cyclooctatetraenes. *Chemistry - A European Journal*, **2013**, 19, 3898-904	4.8	68
30	The FTIR spectra of substituted tetraoxa[8]circulenes and their assignments based on DFT calculations. *Vibrational Spectroscopy*, **2013**, 65, 147-158	2.1	25
29	Quantum-chemical investigation of the structure and electronic absorption spectra of electroluminescent zinc complexes. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 114, 30-40	0.7	11
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