

Gleb Baryshnikov

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194
ext. papers

4,237
ext. citations

5.3
avg, IF

5.82
L-index

#	Paper	IF	Citations
178	Principles of phosphorescent organic light emitting devices. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1719-58	3.6	327
177	Theory and Calculation of the Phosphorescence Phenomenon. <i>Chemical Reviews</i> , 2017 , 117, 6500-6537	68.1	289
176	Mixing of phosphorescent and exciplex emission in efficient organic electroluminescent devices. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1219-25	9.5	74
175	Diazadioxa[8]circulenes: planar antiaromatic cyclooctatetraenes. <i>Chemistry - A European Journal</i> , 2013 , 19, 17097-102	4.8	74
174	Azatrioxa[8]circulenes: planar anti-aromatic cyclooctatetraenes. <i>Chemistry - A European Journal</i> , 2013 , 19, 3898-904	4.8	68
173	Efficient Warm-White LEDs Based on the Phosphorescent bis-Cyclometalated iridium(III) Complex. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11271-11278	3.8	66
172	Contribution of TADF and exciplex emission for efficient Warm-white LEDs. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1543-1550	7.1	59
171	Aromaticity of the planar hetero[8]circulenes and their doubly charged ions: NICS and GIMIC characterization. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15367-74	3.6	59
170	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	3.8	58
169	Cyclo[18]carbon: Insight into Electronic Structure, Aromaticity, and Surface Coupling. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6701-6705	6.4	57
168	A three-dimensional ratiometric sensing strategy on unimolecular fluorescence-thermally activated delayed fluorescence dual emission. <i>Nature Communications</i> , 2019 , 10, 731	17.4	55
167	Anti-Kasha Rule Emissive Switching Induced by Intermolecular H-Bonding. <i>Chemistry of Materials</i> , 2018 , 30, 8008-8016	9.6	53
166	Crystal Multi-Conformational Control Through Deformable Carbon-Sulfur Bond for Singlet-Triplet Emissive Tuning. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4328-4333	16.4	51
165	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	3.6	50
164	Electronic structure and spectral properties of the triarylamine-dithienosilole dyes for efficient organic solar cells. <i>Dyes and Pigments</i> , 2012 , 92, 531-536	4.6	49
163	One-step solvothermal synthesis of high-emissive amphiphilic carbon dots rigidity derivation. <i>Chemical Science</i> , 2018 , 9, 1323-1329	9.4	49
162	Experimental and theoretical study of IR and Raman spectra of tetraoxa[8]circulenes. <i>Vibrational Spectroscopy</i> , 2012 , 61, 156-166	2.1	48

161	Benzoannelated aza-, oxa- and azaoxa[8]circulenes as promising blue organic emitters. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28040-28051	3.6	45
160	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	3.7	44
159	Tetrathio and tetraseleno[8]circulenes: synthesis, structures, and properties. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 969-75	4.5	43
158	Nucleus-independent chemical shift criterion for aromaticity in π -extended tetraoxa[8]circulenes. <i>Journal of Molecular Modeling</i> , 2013 , 19, 847-50	2	43
157	Design of nanoscaled materials based on tetraoxa[8]circulene. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 6555-9	3.6	42
156	Density functional theory study of electronic structure and spectra of tetraoxa[8]circulenes. <i>Computational and Theoretical Chemistry</i> , 2011 , 972, 68-74	2	41
155	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	3.8	40
154	Fluorescence and FTIR Spectra Analysis of Trans-AB π -Substituted Di- and Tetra-Phenyl Porphyrins. <i>Materials</i> , 2010 , 3, 4446-4475	3.5	39
153	Novel Zinc Complex with an Ethylenediamine Schiff Base for High-Luminance Blue Fluorescent OLED Applications. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11850-11859	3.8	37
152	DFT characterization of a new possible graphene allotrope. <i>Chemical Physics Letters</i> , 2014 , 612, 229-233	2.5	36
151	Electronic structure, aromaticity and spectra of hetero[8]circulenes. <i>Russian Chemical Reviews</i> , 2015 , 84, 455-484	6.8	34
150	Fragmentation of the adenine and guanine molecules induced by electron collisions. <i>Journal of Chemical Physics</i> , 2014 , 140, 175101	3.9	33
149	DFT and QTAIM study of the tetra-tert-butyltetraoxa[8]circulene regioisomers structure. <i>Journal of Molecular Structure</i> , 2012 , 1026, 127-132	3.4	33
148	Application of Bader's atoms in molecules theory to the description of coordination bonds in the complex compounds of Ca ²⁺ and Mg ²⁺ with methyldene rhodanine and its anion. <i>Russian Journal of General Chemistry</i> , 2012 , 82, 1254-1262	0.7	30
147	Nine-ring angular fused biscarbazoloanthracene displaying a solid state based excimer emission suitable for OLED application. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5795-5805	7.1	30
146	Aromaticity of the completely annelated tetraphenylenes: NICS and GIMIC characterization. <i>Journal of Molecular Modeling</i> , 2015 , 21, 136	2	29
145	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	13	29
144	Integrating Time-Resolved Imaging Information by Single-Luminophore Dual Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17018-17025	16.4	29

143	Single crystal architecture and absorption spectra of octathio[8]circulene and sym-tetraselenatetrathio[8]circulene: QTAIM and TD-DFT approach. <i>Journal of Molecular Modeling</i> , 2013 , 19, 4511-9	2	28
142	Dual-Phase Thermally Activated Delayed Fluorescence Luminogens: A Material for Time-Resolved Imaging Independent of Probe Pretreatment and Probe Concentration. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7548-7554	16.4	27
141	Aromaticity of the doubly charged [8]circulenes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8980-92	3.6	27
140	Molecular Phosphorescence in Polymer Matrix with Reversible Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20765-20774	9.5	26
139	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	0.7	26
138	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	3.6	25
137	A DFT and QTAIM study of the novel d-block metal complexes with tetraoxa[8]circulene-based ligands. <i>New Journal of Chemistry</i> , 2015 , 39, 7815-7821	3.6	25
136	The FTIR spectra of substituted tetraoxa[8]circulenes and their assignments based on DFT calculations. <i>Vibrational Spectroscopy</i> , 2013 , 65, 147-158	2.1	25
135	Alkali and alkaline-earth metal complexes with tetraoxa[8]circulene sheet: a computational study by DFT and QTAIM methods. <i>RSC Advances</i> , 2015 , 5, 24299-24305	3.7	24
134	BCN-Encapsulated Nano-nickel Synergistically Promotes Ambient Electrochemical Dinitrogen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31419-31430	9.5	23
133	Recent progress in quantum chemistry of hetero[8]circulenes. <i>Molecular Physics</i> , 2017 , 115, 2218-2230	1.7	22
132	New WOLEDs based on extended azatrioxa[8]circulenes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4123-4128	7.1	21
131	DFT simulation of the heteroannelated octatetraenes vibronic spectra with the Franck-Condon and Herzberg-Teller approaches including Duschinsky effect. <i>Chemical Physics</i> , 2015 , 459, 65-71	2.3	21
130	Structure and spectroscopic characterization of tetrathia- and tetraselena[8]circulenes as a new class of polyaromatic heterocycles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 151, 247-61	4.4	21
129	N-annelated perylenes as effective green emitters for OLEDs. <i>RSC Advances</i> , 2015 , 5, 78150-78159	3.7	21
128	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	1.5	21
127	Structure and spectral properties of truxene dye S5. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2012 , 112, 168-174	0.7	20
126	A Fluorescence-Phosphorescence-Phosphorescence Triple-Channel Emission Strategy for Full-Color Luminescence. <i>Small</i> , 2020 , 16, e1906475	11	19

125	Quantum-chemical study of the structure and optical properties of sensitized dyes of an indoline-thiazolidine series. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2010 , 108, 16-22	0.7	19
124	N-Confused Phlorin-Prodigosin Chimera: meso-Aryl Oxidation and Extension Triggered by Peripheral Coordination. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1537-1541	16.4	19
123	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	9.5	19
122	Crystal Multi-Conformational Control Through Deformable Carbon-Sulfur Bond for Singlet-Triplet Emissive Tuning. <i>Angewandte Chemie</i> , 2019 , 131, 4372-4377	3.6	18
121	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	8.7	18
120	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	0.8	18
119	Multi-channel electroluminescence of CdTe/CdS core-shell quantum dots implemented into a QLED device. <i>Dyes and Pigments</i> , 2019 , 162, 647-653	4.6	17
118	Strong Topological States and High Charge Carrier Mobility in Tetraoxa[8]circulene Nanosheets. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22216-22222	3.8	17
117	Skeletal Rearrangement of Twisted Thia-Norhexaphyrin: Multiply Annulated Polypyrrolic Aromatic Macrocycles. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5925-5929	16.4	16
116	Aromaticity and photophysics of tetrasila- and tetragerma-annelated tetrathienylenes as new representatives of the hetero[8]circulene family. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9246-9254	3.6	16
115	Synthesis and photophysical properties of Zn(II) Schiff base complexes possessing strong solvent-dependent solid-state fluorescence. <i>Polyhedron</i> , 2018 , 155, 202-208	2.7	16
114	A computational study of aromaticity and photophysical properties of unsymmetrical azatrioxa[8]circulenes. <i>New Journal of Chemistry</i> , 2017 , 41, 2717-2723	3.6	15
113	The effect of molecular structure on the properties of quinoxaline-based molecules for OLED applications. <i>Dyes and Pigments</i> , 2020 , 173, 108008	4.6	15
112	A Fully Conjugated Planar Heterocyclic [9]Circulene. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14058-14063	16.4	15
111	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	3.6	15
110	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	3.7	15
109	Engineering stable radicals using photochromic triggers. <i>Nature Communications</i> , 2020 , 11, 945	17.4	14
108	Compressing a Non-Planar Aromatic Heterocyclic [7]Helicene to a Planar Hetero[8]Circulene. <i>Chemistry - A European Journal</i> , 2020 , 26, 4935-4940	4.8	14

107	The Electronic Structure of Heteroannulated Cyclooctatetraenes and their UV-Vis Absorption Spectra. <i>Chemistry of Heterocyclic Compounds</i> , 2014 , 50, 349-363	1.4	14
106	BODIPY-core 1,7-diphenyl-substituted derivatives for photovoltaics and OLED applications. <i>Dyes and Pigments</i> , 2020 , 175, 108123	4.6	14
105	Deciphering the unusual fluorescence in weakly coupled bis-nitro-pyrrolo[3,2-b]pyrroles. <i>Communications Chemistry</i> , 2020 , 3,	6.3	13
104	Benzoselenophenylpyridine platinum complexes: green versus red phosphorescence towards hybrid OLEDs. <i>Dalton Transactions</i> , 2020 , 49, 3393-3397	4.3	13
103	Synthesis and properties of synthetic fulvic acid derived from hematoxylin. <i>Journal of Molecular Structure</i> , 2015 , 1086, 25-33	3.4	13
102	When are Antiaromatic Molecules Paramagnetic?. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21027-21035	3.8	13
101	Aromaticity of Even-Number Cyclo[n]carbons ($n = 6-100$). <i>Journal of Physical Chemistry A</i> , 2020 , 124, 10849-10855	1.2	13
100	Anti-Aromatic versus Induced Paratropicity: Synthesis and Interrogation of a Dihydro-diazatrioxa[9]circulene with a Proton Placed Directly above the Central Ring. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5144-5150	16.4	11
99	Structure and spectral properties of triphenylamine dye functionalized with 3,4-propylenedioxythiophene. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2012 , 112, 829-835	0.7	11
98	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, 30-40	0.7	11
97	Raman spectra of tetraoxa[8]circulenes. p-dinaphthalenodiphenylenetetrafulan and its tetraalkyl derivatives (DFT study and experiment). <i>Journal of Applied Spectroscopy</i> , 2012 , 79, 695-707	0.7	11
96	Theoretical investigation of the structure and electronic absorption spectrum of a complex zinc bis-[8-(3,5-difluorophenylsulfanyl)amino]quinolate. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2012 , 113, 298-304	0.7	11
95	Study of structure and spectral characteristics of the binuclear zinc complex with (E)-2-((2-[3-(pyridin-2-yl)-1H-1,2,4-triazol-5-yl]phenylimino)methyl)phenol. <i>Russian Journal of General Chemistry</i> , 2011 , 81, 2332-2344	0.7	11
94	Quantum-chemical study of structure and spectral properties of triphenylamine-rhodanine dye 2-(5-(4-(diphenylamine)benzylidene)-4-oxo-2-thioxothiazolidine-3-yl) acetic acid. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011 , 110, 216-223	0.7	11
93	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	2.3	10
92	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	2	10
91	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	0.7	10
90	Theoretical study of the dimerization of rhodanine in various tautomeric forms. <i>Chemistry of Heterocyclic Compounds</i> , 2012 , 47, 1268-1279	1.4	10

89	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	2.7	10
88	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	3.6	10
87	Substituent-sensitive fluorescence of sequentially N-alkylated tetrabenzotetraaza[8]circulenes. <i>New Journal of Chemistry</i> , 2017 , 41, 7621-7625	3.6	9
86	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	1.5	9
85	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	3.6	9
84	Extended Discrete Interaction Model: Plasmonic Excitations of Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28867-28880	3.8	9
83	Stabilizing hydrogen-hydrogen interactions in cationic indopolycarbocyanine dyes. <i>Journal of Structural Chemistry</i> , 2011 , 52, 1051-1056	0.9	9
82	A complete characterization of vibrational IR and Raman spectra of the highly-symmetrical octathia[8]circulene. <i>Vibrational Spectroscopy</i> , 2019 , 100, 107-116	2.1	9
81	Anion-induced exchange interactions in binuclear complexes of Cu(II) with flexible hexadentate bispicolylamidrazone ligands. <i>Chemical Physics Letters</i> , 2016 , 661, 48-52	2.5	8
80	Structure and excitation-dependent emission of novel zinc complexes with pyridyltriazoles.. <i>RSC Advances</i> , 2019 , 9, 22143-22152	3.7	8
79	Structure and electronic absorption spectra of isotruxene dyes for dye-sensitized solar cells: Investigation by the DFT, TDDFT, and QTAIM methods. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2013 , 115, 484-490	0.7	8
78	Temperature effects in low-frequency Raman spectra of corticosteroid hormones. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2015 , 118, 214-223	0.7	8
77	Multidimensional Structure Conformation of Persulfurated Benzene for Highly Efficient Phosphorescence. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1314-1322	9.5	8
76	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	16.4	8
75	BaZrO ₃ perovskite nanoparticles as emissive material for organic/inorganic hybrid light-emitting diodes. <i>Dyes and Pigments</i> , 2017 , 145, 399-403	4.6	7
74	Anti-Aromatic versus Induced Paratropicity: Synthesis and Interrogation of a Dihydro-diazatrioxa[9]circulene with a Proton Placed Directly above the Central Ring. <i>Angewandte Chemie</i> , 2020 , 132, 5182-5188	3.6	7
73	The blue vibronically resolved electroluminescence of azatrioxa[8]circulene. <i>Chemical Physics Letters</i> , 2019 , 732, 136667	2.5	7
72	Integrating Time-Resolved Imaging Information by Single-Luminophore Dual Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie</i> , 2020 , 132, 17166-17173	3.6	7

71	Copper confined in vesicle-like BCN cavity promotes electrochemical reduction of nitrate to ammonia in water. <i>Journal of Materials Chemistry A</i> ,	13	7
70	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	9.7	6
69	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. <i>Russian Journal of Inorganic Chemistry</i> , 2015 , 60, 1560-1567	1.5	6
68	Theoretical study of the conformational structure and thermodynamic properties of 5-(4-oxo-1,3-thiazolidine-2-ylidene)-rhodanine and ethyl-5-(4-oxo-1,3-thiazolidine-2-ylidene)-rhodanine-3-acetic acid as acceptor groups of indoline dyes. <i>Journal of Structural Chemistry</i> , 2010 , 51, 817-823	0.9	6
67	Lighting up solid states using a rubber. <i>Nature Communications</i> , 2021 , 12, 908	17.4	6
66	Absolute effective cross sections of ionization of adenine and guanine molecules by electron impact. <i>Technical Physics</i> , 2015 , 60, 1430-1436	0.5	5
65	Tripyrrin-armed isosmaragdyrins: synthesis, heterodinuclear coordination, and protonation-triggered helical inversion. <i>Chemical Science</i> , 2020 , 11, 2790-2795	9.4	5
64	Flexible diphenylsulfone versus rigid dibenzothiophene-dioxide as acceptor moieties in donor-acceptor-donor TADF emitters for highly efficient OLEDs. <i>Organic Electronics</i> , 2020 , 83, 105733	3.5	5
63	Hydrophobic boron organic polymers: Ultra-high capacity of enrichment and storage for chloroform. <i>Chemical Engineering Journal</i> , 2020 , 385, 123827	14.7	5
62	Twisted-Planar-Twisted expanded porphyrinoid dimer as a rudimentary reaction-based methanol indicator. <i>Nature Communications</i> , 2020 , 11, 5289	17.4	5
61	Manipulating crystals through photoexcitation-induced molecular realignment. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11707-11714	7.1	5
60	Photoinduced Radical Emission in a Coassembly System. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23842-23848	16.4	5
59	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	1.5	4
58	Dual-Phase Thermally Activated Delayed Fluorescence Luminogens: A Material for Time-Resolved Imaging Independent of Probe Pretreatment and Probe Concentration. <i>Angewandte Chemie</i> , 2020 , 132, 7618-7624	3.6	4
57	Optical tuning of tetrabenzo[8]circulene derivatives through pseudorotational conformational isomerization. <i>Dyes and Pigments</i> , 2018 , 151, 372-379	4.6	4
56	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	0.7	4
55	Impact of heteroatoms (S, Se, and Te) on the aromaticity of heterocirculenes. <i>New Journal of Chemistry</i> , 2019 , 43, 12178-12190	3.6	4
54	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	0.7	4

53	IR, Raman and UV-Vis spectra of the Ru(II) cyano complexes studied by DFT. <i>Molecular Simulation</i> , 2011 , 37, 670-677	2	4
52	Making Nitronaphthalene Fluoresce. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10295-10303	6.4	4
51	Two-dimensional BCN matrix inlaid with single-atom-Cu driven electrochemical nitrate reduction reaction to achieve sustainable industrial-grade production of ammonia. <i>Applied Materials Today</i> , 2021 , 25, 101206	6.6	4
50	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> , 2021 , 133190	14.7	4
49	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	3.5	4
48	Dianthracenylazatrioxa[8]circulene: Synthesis, Characterization and Application in OLEDs. <i>Chemistry - A European Journal</i> , 2021 , 27, 11609-11617	4.8	4
47	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	6.4	4
46	Experimental and theoretical study of the mechanism formation of silver nanoclusters in the reduction reaction of Ag ⁺ ions by alizarin solution. <i>Colloids and Interface Science Communications</i> , 2019 , 29, 47-54	5.4	4
45	Computational study of the structure and magnetic properties of the weakly-coupled tetranuclear square-planar complex of Cu(II) with a tetraporphyrin sheet. <i>Inorganica Chimica Acta</i> , 2019 , 485, 73-79	2.7	4
44	Nucleotide Interaction with a Chitosan Layer on a Silica Surface: Establishing the Mechanism at the Molecular Level. <i>Langmuir</i> , 2021 , 37, 1511-1520	4	4
43	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	4.4	4
42	Persistent radical pairs trigger nano-gold to highly efficiently and highly selectively drive the value-added conversion of nitroaromatics. <i>Chem Catalysis</i> , 2021 , 1, 1118-1118		4
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