

Rashid R Valiev

List of Publications by Citations

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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.

90
papers

1,745
citations

22
h-index

39
g-index

102
ext. papers

2,091
ext. citations

4.3
avg, IF

5.14
L-index

#	Paper	IF	Citations
90	Energy-Cascaded Upconversion in an Organic Dye-Sensitized Core/Shell Fluoride Nanocrystal. <i>Nano Letters</i> , 2015 , 15, 7400-7	11.5	279
89	Dye-sensitized lanthanide-doped upconversion nanoparticles. <i>Chemical Society Reviews</i> , 2017 , 46, 4150-4167	48.7	203
88	Efficient Broadband Upconversion of Near-Infrared Light in Dye-Sensitized Core/Shell Nanocrystals. <i>Advanced Optical Materials</i> , 2016 , 4, 1760-1766	8.1	85
87	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
86	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
85	Computational studies of photophysical properties of porphin, tetraphenylporphyrin and tetrabenzoporphyrin. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11508-17	3.6	51
84	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
83	Benzoannulated aza-, oxa- and azaoxa[8]circulenes as promising blue organic emitters. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28040-28051	3.6	45
82	Insights into magnetically induced current pathways and optical properties of isophlorins. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 9062-8	2.8	37
81	Ab initio simulation of pyrene spectra in water matrices. <i>RSC Advances</i> , 2014 , 4, 42054-42065	3.7	34
80	Computational Studies of Aromatic and Photophysical Properties of Expanded Porphyrins. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 4756-4767	2.8	33
79	The computational and experimental investigations of photophysical and spectroscopic properties of BF ₂ dipyrromethene complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 117, 323-9	4.4	32
78	Closed-shell paramagnetic porphyrinoids. <i>Chemical Communications</i> , 2017 , 53, 9866-9869	5.8	31
77	Aromaticity of the completely annulated tetraphenylenes: NICS and GIMIC characterization. <i>Journal of Molecular Modeling</i> , 2015 , 21, 136	2	29
76	Aromaticity of the doubly charged [8]circulenes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8980-92	3.6	27
75	New insights into aromatic pathways of carbachlorins and carbaporphyrins based on calculations of magnetically induced current densities. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11932-41	3.6	26
74	The aromatic character of thienopyrrole-modified 20 π electron porphyrinoids. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11010-6	3.6	25

73	Theoretical studies as a tool for understanding the aromatic character of porphyrinoid compounds. <i>Chemical Modelling</i> , 1-42	2	25
72	Predicting the degree of aromaticity of novel carbaporphyrinoids. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14215-22	3.6	24
71	Photon Upconversion Kinetic Nanosystems and Their Optical Response. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700144	8.3	24
70	Aromatic pathways in carbathiaporphyrins. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 1201-7	2.8	23
69	Calculating rate constants for intersystem crossing and internal conversion in the Franck-Condon and Herzberg-Teller approximations. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18495-18500	3.6	22
68	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
67	Computational and experimental investigation of the optical properties of the chromene dyes. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 1948-56	2.8	20
66	Can Plasmon Change Reaction Path? Decomposition of Unsymmetrical Iodonium Salts as an Organic Probe. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5770-5776	6.4	20
65	2-Iodoxybenzoic acid ditriflate: the most powerful hypervalent iodine(v) oxidant. <i>Chemical Communications</i> , 2019 , 55, 7760-7763	5.8	18
64	The influence of benzene rings on aromatic pathways in the porphyrins. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 2563-2567	2.1	18
63	Intersystem Crossings Drive Atmospheric Gas-Phase Dimer Formation. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6596-6604	2.8	17
62	Theoretical and experimental investigation of photophysical properties of Zn(DFP SAMQ) ₂ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 128, 137-40	4.4	17
61	Lasing of pyrromethene 567 in solid matrices. <i>Chemical Physics Letters</i> , 2013 , 588, 184-187	2.5	17
60	Optical and magnetic properties of antiaromatic porphyrinoids. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 25979-25988	3.6	17
59	Bicycloaromaticity and Baird-type bicycloaromaticity of dithienothiophene-bridged [34]octaphyrins. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17705-17713	3.6	17
58	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
57	Verdazyl Radical Building Blocks: Synthesis, Structure, and Sonogashira Cross-Coupling Reactions. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 4802-4811	3.2	16
56	Molecular mechanism for rapid autoxidation in α -pinene ozonolysis. <i>Nature Communications</i> , 2021 , 12, 878	17.4	16

55	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
54	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
53	Application of a 2D Molybdenum Telluride in SERS Detection of Biorelevant Molecules. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47774-47783	9.5	14
52	Photolysis of diatomic molecules as a source of atoms in planetary exospheres. <i>Astronomy and Astrophysics</i> , 2020 , 633, A39	5.1	13
51	When are Antiaromatic Molecules Paramagnetic?. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21027-21035	3.8	13
50	Aromaticity of Even-Number Cyclo[n]carbons ($n = 6-100$). <i>Journal of Physical Chemistry A</i> , 2020 , 124, 10849-10855	12	12
49	Electronic absorption spectrum of monoamine tetraphenylporphyrin with the complex of ethylenediaminetetraacetic acid as substitute. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 87, 40-5	4.4	12
48	Electroluminescence of Halogen Complexes with Monovalent Copper: OLED Devices and DFT Modeling. <i>Russian Physics Journal</i> , 2016 , 58, 1205-1211	0.7	10
47	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
46	Substituent-sensitive fluorescence of sequentially N-alkylated tetrabenzotetraaza[8]circulenes. <i>New Journal of Chemistry</i> , 2017 , 41, 7621-7625	3.6	9
45	Interlayer-Sensitized Linear and Nonlinear Photoluminescence of Quasi-2D Hybrid Perovskites Using Aggregation-Induced Enhanced Emission Active Organic Cation Layers. <i>Advanced Functional Materials</i> , 2020 , 30, 1909375	15.6	8
44	Reactions of 1-Arylbenziodoxolones with Azide Anion: Experimental and Computational Study of Substituent Effects. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 640-647	3.2	8
43	Perhalophenyl Three-Coordinate Gold(I) Complexes as TADF Emitters: A Photophysical Study from Experimental and Computational Viewpoints. <i>Inorganic Chemistry</i> , 2020 , 59, 14236-14244	5.1	8
42	Thermally activated delayed fluorescence in dibenzothiophene sulfone derivatives: Theory and experiment. <i>Chemical Physics Letters</i> , 2019 , 717, 53-58	2.5	7
41	Ab Initio Study of Electronic States of Astrophysically Important Molecules. <i>Russian Physics Journal</i> , 2016 , 59, 536-543	0.7	7
40	The blue vibronically resolved electroluminescence of azatrioxa[8]circulene. <i>Chemical Physics Letters</i> , 2019 , 732, 136667	2.5	7
39	Photolysis of metal oxides as a source of atoms in planetary exospheres. <i>Planetary and Space Science</i> , 2017 , 145, 38-48	2	6
38	Plasmon-assisted MXene grafting: tuning of surface termination and stability enhancement. <i>2D Materials</i> ,	5.9	6

37	The first example of a one-step synthesis of 2SO-acetyl aryl-D-glucopyranosides. <i>Carbohydrate Research</i> , 2015 , 409, 36-40	2.9	5
36	A new look at acid catalyzed deacetylation of carbohydrates: A regioselective synthesis and reactivity of 2-O-acetyl aryl glycopyranosides. <i>Carbohydrate Research</i> , 2018 , 458-459, 60-66	2.9	5
35	Theoretical investigation of fluorescence properties of EDTA and DTPA substituted tetraphenylporphyrin molecules. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 99, 122-5	4.4	5
34	Comparing Reaction Routes for (RO) Intermediates Formed in Peroxy Radical Self- and Cross-Reactions. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 8305-8320	2.8	5
33	Fast estimation of the internal conversion rate constant in photophysical applications. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 6344-6348	3.6	5
32	The aromaticity of verdazyl radicals and their closed-shell charged species. <i>New Journal of Chemistry</i> , 2018 , 42, 19987-19994	3.6	5
31	Positional Isomers of Isocyanoazulenes as Axial Ligands Coordinated to Ruthenium(II) Tetraphenylporphyrin: Fine-Tuning Redox and Optical Profiles. <i>Inorganic Chemistry</i> , 2019 , 58, 9316-9325 ^{5.1}		4
30	Optical tuning of tetrabenzo[8]circulene derivatives through pseudorotational conformational isomerization. <i>Dyes and Pigments</i> , 2018 , 151, 372-379	4.6	4
29	Ab initio investigation of electric and magnetic dipole electronic transitions in the complex of oxygen with benzene. <i>Journal of Molecular Modeling</i> , 2016 , 22, 214	2	4
28	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
27	Theoretical Investigation of the Structural and Spectroscopic Properties of Anthracene Dimers. <i>Russian Physics Journal</i> , 2014 , 57, 95-99	0.7	4
26	Computational and experimental studies of the electronic excitation spectra of EDTA and DTPA substituted tetraphenylporphyrins and their Lu complexes. <i>Journal of Molecular Modeling</i> , 2013 , 19, 4631-7		4
25	Electronic absorption spectrum of monoaminosubstituted tetraphenylporphyrin with diethylenetriaminepenetaacetic acid for the substitute. <i>Russian Physics Journal</i> , 2012 , 55, 378-382	0.7	4
24	Dianthracenylazatrioxa[8]circulene: Synthesis, Characterization and Application in OLEDs. <i>Chemistry - A European Journal</i> , 2021 , 27, 11609-11617	4.8	4
23	Deacetylation of per-acetylated glycopyranosides: An overall pattern for acidic catalyis. <i>Chemical Physics Letters</i> , 2019 , 723, 123-127	2.5	3
22	Design, synthesis and evaluation of a new Mn Contrast agent for MR imaging of myocardium based on the DTPA-phenylpentadecanoic acid complex. <i>Chemical Physics Letters</i> , 2016 , 665, 111-116	2.5	3
21	Experimental and theoretical study of photo- and electroluminescence of divinylidiphenyl and divinylphenanthrene derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 173, 59-64	4.4	3
20	General and Simple Method for the Synthesis of 3-nitroformazan Using Arenediazonium Tosylates. <i>Current Organic Synthesis</i> , 2016 , 13, 623-628	1.9	3

19	Competition between the nonadiabatic electronic state-mixing and the Herzberg-Teller vibronic effects in fluorescence process of tetraoxa[8]circulene. <i>Chemical Physics Letters</i> , 2020 , 738, 136914	2.5	3
18	Computational study of aromaticity, H NMR spectra and intermolecular interactions of twisted thia-norhexaphyrin and its multiply annulated polypyrrolic derivatives. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25334-25343	3.6	3
17	Photophysical properties of the triangular [Au(HN[double bond, length as m-dash]COH)] complex and its dimer. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 10314-10321	3.6	3
16	Photophysical Constants of the Tetraoxa[8]Circulene Molecule. <i>Russian Physics Journal</i> , 2019 , 61, 1759-1763	3.6	2
15	Vibronic absorption spectra of the angular fused bisindolo- and biscarbazoloanthracene blue fluorophores for OLED applications. <i>Chemical Physics</i> , 2018 , 513, 105-111	2.3	2
14	The effect of anion complexation on the aromatic properties of aromatic and antiaromatic porphyrinoids. <i>New Journal of Chemistry</i> , 2020 , 44, 20643-20650	3.6	2
13	Single-layer polymeric tetraoxa[8]circulene modified by s-block metals: toward stable spin qubits and novel superconductors. <i>Nanoscale</i> , 2021 , 13, 4799-4811	7.7	2
12	Optimization of core valence states of molecules. <i>Molecular Physics</i> , 2017 , 115, 252-259	1.7	1
11	Electroluminescence of a Zinc Complex Exciplex with a Hole-Transporting Material. <i>Russian Physics Journal</i> , 2019 , 62, 140-146	0.7	1
10	Stimulated Emission of Active Media in the Red Spectral Range. <i>Russian Physics Journal</i> , 2016 , 59, 1-7	0.7	1
9	Complex Study of Electronic States and Spectra of 3-Nitroformazans. <i>Russian Physics Journal</i> , 2016 , 59, 197-203	0.7	1
8	Ab Initio Study of Phosphorescence of Hetero[8]Circulenes. <i>Russian Physics Journal</i> , 2019 , 62, 406-410	0.7	1
7	Influence of Molecular Oxygen on Ortho-Para Conversion of Water Molecules. <i>Russian Physics Journal</i> , 2017 , 60, 485-493	0.7	1
6	Franck-Condon factors and vibronic patterns of singlet-triplet transitions of 16O3 molecule falling near the dissociation threshold and above. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 273, 107834	2.1	1
5	Less is more: on the effect of benzannulation on the solid-state emission of difluoroborates. <i>Journal of Materials Chemistry C</i> ,	7.1	1
4	Vibronic Spectra of Bifluorene and Terfluorene. <i>Russian Physics Journal</i> , 2022 , 64, 2082-2088	0.7	1
3	Theoretical Study of Nonradiative Energy Transfer from Exciplex to Perovskites. <i>Russian Physics Journal</i> , 2020 , 62, 1911-1916	0.7	0
2	A hybrid molecular sensitizer for triplet fusion upconversion. <i>Chemical Engineering Journal</i> , 2021 , 426, 131282	14.7	0

- 1 Is either direct photolysis or photocatalysed H-shift of peroxy radicals a competitive pathway in the troposphere?. *Royal Society Open Science*, **2020**, 7, 200521 33