

Rashid R Valiev

List of Publications by Year in descending order

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100
papers

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citations

293460

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docs citations

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2943
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of perhalophenyl groups in the TADF mechanism of diphosphino gold(<i>scp</i>) complexes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4894-4904.	2.7	7
2	Integration of global ring currents using the Ampère–Maxwell law. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 624-628.	1.3	15
3	Magnetically induced ring currents in metallocenothiaporphyrins. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1666-1674.	1.3	9
4	Non-intersecting ring currents in [12]infinitene. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6404-6409.	1.3	23
5	Vibronic Spectra of Bifluorene and Terfluorene. <i>Russian Physics Journal</i> , 2022, 64, 2082-2088.	0.2	1
6	Energy transfer, pre-reactive complex formation and recombination reactions during the collision of peroxy radicals. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10033-10043.	1.3	6
7	Odd-Number Cyclo[<i>n</i>]Carbons Sustaining Alternating Aromaticity. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2445-2452.	1.1	7
8	Photo- and Electroluminescent Neutral Iridium(III) Complexes Bearing Imidoamidinate Ligands. <i>Inorganic Chemistry</i> , 2022, 61, 8670-8684.	1.9	5
9	Gas-Phase Peroxyl Radical Recombination Reactions: Computational Study of Formation and Decomposition of Tetroxides. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4046-4056.	1.1	9
10	So Close, Yet so Different: How One Donor Atom Changes Significantly the Photophysical Properties of Mononuclear Cu(I) Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 11629-11638.	1.9	8
11	Fast estimation of the internal conversion rate constant in photophysical applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6344-6348.	1.3	16
12	Molecular mechanism for rapid autoxidation in β -pinene ozonolysis. <i>Nature Communications</i> , 2021, 12, 878.	5.8	47
13	Dianthracenylazatrioxa[8]circulene: Synthesis, Characterization and Application in OLEDs. <i>Chemistry - A European Journal</i> , 2021, 27, 11609-11617.	1.7	7
14	Plasmon-assisted MXene grafting: tuning of surface termination and stability enhancement. <i>2D Materials</i> , 2021, 8, 045037.	2.0	19
15	Franck-Condon factors and vibronic patterns of singlet-triplet transitions of 16O ₃ molecule falling near the dissociation threshold and above. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 273, 107834.	1.1	8
16	A hybrid molecular sensitizer for triplet fusion upconversion. <i>Chemical Engineering Journal</i> , 2021, 426, 131282.	6.6	5
17	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.	2.8	9
18	Computational Investigation of the Formation of Peroxide (ROOR) Accretion Products in the OH- and NO ₃ -Initiated Oxidation of β -Pinene. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10632-10639.	1.1	13

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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.	1.2	3
20	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.	1.9	15
21	Application of a 2D Molybdenum Telluride in SERS Detection of Biorelevant Molecules. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47774-47783.	4.0	25
22	The effect of anion complexation on the aromatic properties of aromatic and antiaromatic porphyrinoids. <i>New Journal of Chemistry</i> , 2020, 44, 20643-20650.	1.4	4
23	Is either direct photolysis or photocatalysed H-shift of peroxy radicals a competitive pathway in the troposphere?. <i>Royal Society Open Science</i> , 2020, 7, 200521.	1.1	0
24	When are Antiaromatic Molecules Paramagnetic?. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21027-21035.	1.5	18
25	Comparing Reaction Routes for $\langle \text{RO} \cdot \text{OR} \rangle$ Intermediates Formed in Peroxy Radical Self- and Cross-Reactions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8305-8320.	1.1	24
26	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
27	Aromaticity of Even-Number Cyclo[n]carbons ($n = 6 \text{--} 100$). <i>Journal of Physical Chemistry A</i> , 2020, 124, 10849-10855.	1.1	30
28	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.	2.1	27
29	Interlayer-Sensitized Linear and Nonlinear Photoluminescence of Quasi-2D Hybrid Perovskites Using Aggregation-Induced Emission Active Organic Cation Layers. <i>Advanced Functional Materials</i> , 2020, 30, 1909375.	7.8	21
30	Theoretical Study of Nonradiative Energy Transfer from Exciplex to Perovskites. <i>Russian Physics Journal</i> , 2020, 62, 1911-1916.	0.2	1
31	Photolysis of diatomic molecules as a source of atoms in planetary exospheres. <i>Astronomy and Astrophysics</i> , 2020, 633, A39.	2.1	24
32	Photophysical properties of the triangular $[\text{Au}(\text{HNiCOH})]_3$ complex and its dimer. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10314-10321.	1.3	3
33	The blue vibronically resolved electroluminescence of azatrioxa[8]circulene. <i>Chemical Physics Letters</i> , 2019, 732, 136667.	1.2	10
34	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.	1.3	38
35	Intersystem Crossings Drive Atmospheric Gas-Phase Dimer Formation. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6596-6604.	1.1	35
36	Ab Initio Study of Phosphorescence of Hetero[8]Circulenes. <i>Russian Physics Journal</i> , 2019, 62, 406-410.	0.2	2

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37	Impact of heteroatoms (S, Se, and Te) on the aromaticity of heterocirculenes. <i>New Journal of Chemistry</i> , 2019, 43, 12178-12190.	1.4	10
38	Cyclo[18]carbon: Insight into Electronic Structure, Aromaticity, and Surface Coupling. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6701-6705.	2.1	103
39	Thermally activated delayed fluorescence in dibenzothiophene sulfone derivatives: Theory and experiment. <i>Chemical Physics Letters</i> , 2019, 717, 53-58.	1.2	11
40	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.	1.9	7
41	2-Iodoxybenzoic acid ditriflate: the most powerful hypervalent iodine(ν) oxidant. <i>Chemical Communications</i> , 2019, 55, 7760-7763.	2.2	23
42	Electroluminescence of a Zinc Complex Exciplex with a Hole-Transporting Material. <i>Russian Physics Journal</i> , 2019, 62, 140-146.	0.2	3
43	Deacetylation of per-acetylated glycopyranosides: An overall pattern for acidic catalysis. <i>Chemical Physics Letters</i> , 2019, 723, 123-127.	1.2	6
44	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.	1.3	19
45	Photophysical Constants of the Tetraoxa[8]Circulene Molecule. <i>Russian Physics Journal</i> , 2019, 61, 1759-1763.	0.2	2
46	Computational study of aromaticity, ^1H 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.	1.3	5
47	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
48	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.	1.1	7
49	Verdazyl Radical Building Blocks: Synthesis, Structure, and Sonogashira Cross-Coupling Reactions. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4802-4811.	1.2	23
50	Optical tuning of tetrabenzo[8]circulene derivatives through pseudorotational conformational isomerization. <i>Dyes and Pigments</i> , 2018, 151, 372-379.	2.0	5
51	Reactions of $1\text{-}i\text{-Ar}$ benziodoxolones with Azide Anion: Experimental and Computational Study of Substituent Effects. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 640-647.	1.2	9
52	Photon Upconversion Kinetic Nanosystems and Their Optical Response. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700144.	4.4	42
53	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
54	The aromaticity of verdazyl radicals and their closed-shell charged species. <i>New Journal of Chemistry</i> , 2018, 42, 19987-19994.	1.4	5

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55	Bicycloaromaticity and Baird-type bicycloaromaticity of dithienothiophene-bridged [34]octaphyrins. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17705-17713.	1.3	21
56	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
57	Computational Studies of Aromatic and Photophysical Properties of Expanded Porphyrins. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4756-4767.	1.1	41
58	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
59	Dye-sensitized lanthanide-doped upconversion nanoparticles. <i>Chemical Society Reviews</i> , 2017, 46, 4150-4167.	18.7	281
60	Substituent-sensitive fluorescence of sequentially N-alkylated tetrabenzotetraaza[8]circulenes. <i>New Journal of Chemistry</i> , 2017, 41, 7621-7625.	1.4	9
61	Optimization of core valence states of molecules. <i>Molecular Physics</i> , 2017, 115, 252-259.	0.8	2
62	Closed-shell paramagnetic porphyrinoids. <i>Chemical Communications</i> , 2017, 53, 9866-9869.	2.2	40
63	Optical and magnetic properties of antiaromatic porphyrinoids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25979-25988.	1.3	19
64	Photolysis of metal oxides as a source of atoms in planetary exospheres. <i>Planetary and Space Science</i> , 2017, 145, 38-48.	0.9	12
65	Influence of Molecular Oxygen on Ortho-Para Conversion of Water Molecules. <i>Russian Physics Journal</i> , 2017, 60, 485-493.	0.2	2
66	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.	2.0	5
67	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.	0.8	5
68	Ab Initio Study of Electronic States of Astrophysically Important Molecules. <i>Russian Physics Journal</i> , 2016, 59, 536-543.	0.2	9
69	Efficient Broadband Upconversion of Near-Infrared Light in Dye-Sensitized Core/Shell Nanocrystals. <i>Advanced Optical Materials</i> , 2016, 4, 1760-1766.	3.6	104
70	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
71	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.	1.2	3
72	Stimulated Emission of Active Media in the Red Spectral Range. <i>Russian Physics Journal</i> , 2016, 59, 1-7.	0.2	2

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73	Complex Study of Electronic States and Spectra of 3-Nitroformazans. Russian Physics Journal, 2016, 59, 197-203.	0.2	1
74	Electroluminescence of Halogen Complexes with Monovalent Copper: OLED Devices and DFT Modeling. Russian Physics Journal, 2016, 58, 1205-1211.	0.2	14
75	New insights into aromatic pathways of carbachlorins and carbaporphyrins based on calculations of magnetically induced current densities. Physical Chemistry Chemical Physics, 2016, 18, 11932-11941.	1.3	28
76	Aromaticity of the doubly charged [8]circulenes. Physical Chemistry Chemical Physics, 2016, 18, 8980-8992.	1.3	34
77	General and Simple Method for the Synthesis of 3-nitroformazan Using Arenediazonium Tosylates. Current Organic Synthesis, 2016, 13, 623-628.	0.7	3
78	Aromatic Pathways in Carbathiaporphyrins. Journal of Physical Chemistry A, 2015, 119, 1201-1207.	1.1	23
79	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
80	The first example of a one-step synthesis of 2-O-acetyl aryl-d-glucopyranosides. Carbohydrate Research, 2015, 409, 36-40.	1.1	8
81	Predicting the degree of aromaticity of novel carbaporphyrinoids. Physical Chemistry Chemical Physics, 2015, 17, 14215-14222.	1.3	27
82	Computational and Experimental Investigation of the Optical Properties of the Chromene Dyes. Journal of Physical Chemistry A, 2015, 119, 1948-1956.	1.1	23
83	Aromaticity of the completely annelated tetraphenylenes: NICS and GIMIC characterization. Journal of Molecular Modeling, 2015, 21, 136.	0.8	34
84	Energy-Cascaded Upconversion in an Organic Dye-Sensitized Core/Shell Fluoride Nanocrystal. Nano Letters, 2015, 15, 7400-7407.	4.5	341
85	The computational and experimental investigations of photophysical and spectroscopic properties of BF ₂ dipyrromethene complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 117, 323-329.	2.0	33
86	Theoretical and experimental investigation of photophysical properties of Zn(DFP SAMQ) ₂ . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 137-140.	2.0	17
87	Ab initio simulation of pyrene spectra in water matrices. RSC Advances, 2014, 4, 42054-42065.	1.7	38
88	Theoretical Investigation of the Structural and Spectroscopic Properties of Anthracene Dimers. Russian Physics Journal, 2014, 57, 95-99.	0.2	5
89	Aromaticity of the planar hetero[8]circulenes and their doubly charged ions: NICS and GIMIC characterization. Physical Chemistry Chemical Physics, 2014, 16, 15367-15374.	1.3	69
90	The aromatic character of thienopyrrole-modified 20 π -electron porphyrinoids. Physical Chemistry Chemical Physics, 2014, 16, 11010.	1.3	26

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91	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, 4631-4637.	0.8	5
92	The influence of benzene rings on aromatic pathways in the porphyrins. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 2563-2567.	1.0	19
93	Insights into Magnetically Induced Current Pathways and Optical Properties of Isophlorins. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9062-9068.	1.1	38
94	Lasing of pyrromethene 567 in solid matrices. <i>Chemical Physics Letters</i> , 2013, 588, 184-187.	1.2	19
95	Electronic absorption spectrum of monoaminosubstituted tetraphenylporphyrin with diethylenetriaminepenetaacetic acid for the substitute. <i>Russian Physics Journal</i> , 2012, 55, 378-382.	0.2	4
96	Theoretical investigation of fluorescence properties of EDTA and DTPA substituted tetraphenylporphyrin molecules. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 99, 122-125.	2.0	5
97	Computational studies of photophysical properties of porphin, tetraphenylporphyrin and tetrabenzoporphyrin. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11508.	1.3	56
98	Electronic absorption spectrum of monoamine tetraphenylporphyrin with the complexon of ethylenediaminetetraacetic acid as substitute. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 87, 40-45.	2.0	12
99	Less is more: On the effect of benzannulation on solid-state emission of difluoroborates. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	6
100	Theoretical studies as a tool for understanding the aromatic character of porphyrinoid compounds. <i>Chemical Modelling</i> , 0, , 1-42.	0.2	28