

Rashid R Valiev

List of Publications by Year in descending order

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100
papers

2,470
citations

257450

24
h-index

223800

46
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102
all docs

102
docs citations

102
times ranked

2617
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-Cascaded Upconversion in an Organic Dye-Sensitized Core/Shell Fluoride Nanocrystal. <i>Nano Letters</i> , 2015, 15, 7400-7407.	9.1	341
2	Dye-sensitized lanthanide-doped upconversion nanoparticles. <i>Chemical Society Reviews</i> , 2017, 46, 4150-4167.	38.1	281
3	Efficient Broadband Upconversion of Near-Infrared Light in Dye-Sensitized Core/Shell Nanocrystals. <i>Advanced Optical Materials</i> , 2016, 4, 1760-1766.	7.3	104
4	Cyclo[18]carbon: Insight into Electronic Structure, Aromaticity, and Surface Coupling. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6701-6705.	4.6	103
5	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.	2.8	79
6	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.	2.8	69
7	Computational studies of photophysical properties of porphin, tetraphenylporphyrin and tetrabenzoporphyrin. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11508.	2.8	56
8	Benzoannelated aza-, oxa- and azaoxa[8]circulenes as promising blue organic emitters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28040-28051.	2.8	54
9	Molecular mechanism for rapid autoxidation in α -pinene ozonolysis. <i>Nature Communications</i> , 2021, 12, 878.	12.8	47
10	Photon Upconversion Kinetic Nanosystems and Their Optical Response. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700144.	8.7	42
11	Computational Studies of Aromatic and Photophysical Properties of Expanded Porphyrins. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4756-4767.	2.5	41
12	Closed-shell paramagnetic porphyrinoids. <i>Chemical Communications</i> , 2017, 53, 9866-9869.	4.1	40
13	Insights into Magnetically Induced Current Pathways and Optical Properties of Isophlorins. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9062-9068.	2.5	38
14	Ab initio simulation of pyrene spectra in water matrices. <i>RSC Advances</i> , 2014, 4, 42054-42065.	3.6	38
15	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.	2.8	38
16	Intersystem Crossings Drive Atmospheric Gas-Phase Dimer Formation. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6596-6604.	2.5	35
17	Aromaticity of the completely annelated tetraphenylenes: NICS and GIMIC characterization. <i>Journal of Molecular Modeling</i> , 2015, 21, 136.	1.8	34
18	Aromaticity of the doubly charged [8]circulenes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8980-8992.	2.8	34

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19	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, 323-329.	3.9	33
20	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.	2.8	32
21	Aromaticity of Even-Number Cyclo[<i>n</i>]carbons (<i>n</i> = 6–100). <i>Journal of Physical Chemistry A</i> , 2020, 124, 10849-10855.	2.5	30
22	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, 11932-11941.	2.8	28
23	Theoretical studies as a tool for understanding the aromatic character of porphyrinoid compounds. <i>Chemical Modelling</i> , 0, , 1-42.	0.4	28
24	Predicting the degree of aromaticity of novel carbaporphyrinoids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14215-14222.	2.8	27
25	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.	4.6	27
26	The aromatic character of thienopyrrole-modified π-electron porphyrinoids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11010.	2.8	26
27	Application of a 2D Molybdenum Telluride in SERS Detection of Biorelevant Molecules. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47774-47783.	8.0	25
28	Comparing Reaction Routes for ³ (RO••OR ²) Intermediates Formed in Peroxy Radical Self- and Cross-Reactions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8305-8320.	2.5	24
29	Photolysis of diatomic molecules as a source of atoms in planetary exospheres. <i>Astronomy and Astrophysics</i> , 2020, 633, A39.	5.1	24
30	Aromatic Pathways in Carbathiaporphyrins. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1201-1207.	2.5	23
31	Computational and Experimental Investigation of the Optical Properties of the Chromene Dyes. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1948-1956.	2.5	23
32	Verdazyl Radical Building Blocks: Synthesis, Structure, and Sonogashira Cross-Coupling Reactions. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4802-4811.	2.4	23
33	2-Iodoxybenzoic acid ditriflate: the most powerful hypervalent iodine(^v) oxidant. <i>Chemical Communications</i> , 2019, 55, 7760-7763.	4.1	23
34	Non-intersecting ring currents in [12]infinitene. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6404-6409.	2.8	23
35	DFT simulation of the heteroannulated octatetraenes vibronic spectra with the Franck-Condon and Herzberg-Teller approaches including Duschinsky effect. <i>Chemical Physics</i> , 2015, 459, 65-71.	1.9	22
36	Bicycloaromaticity and Baird-type bicycloaromaticity of dithienothiophene-bridged [34]octaphyrins. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17705-17713.	2.8	21

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37	Interlayer- π -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.	14.9	21
38	The influence of benzene rings on aromatic pathways in the porphyrins. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 2563-2567.	2.0	19
39	Lasing of pyromethene 567 in solid matrices. <i>Chemical Physics Letters</i> , 2013, 588, 184-187.	2.6	19
40	Optical and magnetic properties of antiaromatic porphyrinoids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25979-25988.	2.8	19
41	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.	2.8	19
42	Plasmon-assisted MXene grafting: tuning of surface termination and stability enhancement. <i>2D Materials</i> , 2021, 8, 045037.	4.4	19
43	When are Antiaromatic Molecules Paramagnetic?. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21027-21035.	3.1	18
44	Theoretical and experimental investigation of photophysical properties of Zn(DFP SAMQ)2. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 137-140.	3.9	17
45	A computational study of aromaticity and photophysical properties of unsymmetrical azatrioxa[8]circulenes. <i>New Journal of Chemistry</i> , 2017, 41, 2717-2723.	2.8	16
46	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.	2.8	16
47	Fast estimation of the internal conversion rate constant in photophysical applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6344-6348.	2.8	16
48	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.	4.0	15
49	Integration of global ring currents using the Ampère-Maxwell law. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 624-628.	2.8	15
50	Electroluminescence of Halogen Complexes with Monovalent Copper: OLED Devices and DFT Modeling. <i>Russian Physics Journal</i> , 2016, 58, 1205-1211.	0.4	14
51	Computational Investigation of the Formation of Peroxide (ROOR) Accretion Products in the OH- and NO ₃ -Initiated Oxidation of α -Pinene. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10632-10639.	2.5	13
52	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.	3.9	12
53	Photolysis of metal oxides as a source of atoms in planetary exospheres. <i>Planetary and Space Science</i> , 2017, 145, 38-48.	1.7	12
54	Thermally activated delayed fluorescence in dibenzothiophene sulfone derivatives: Theory and experiment. <i>Chemical Physics Letters</i> , 2019, 717, 53-58.	2.6	11

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55	The blue vibronically resolved electroluminescence of azatrioxa[8]circulene. <i>Chemical Physics Letters</i> , 2019, 732, 136667.	2.6	10
56	Impact of heteroatoms (S, Se, and Te) on the aromaticity of heterocirculenes. <i>New Journal of Chemistry</i> , 2019, 43, 12178-12190.	2.8	10
57	Ab Initio Study of Electronic States of Astrophysically Important Molecules. <i>Russian Physics Journal</i> , 2016, 59, 536-543.	0.4	9
58	Substituent-sensitive fluorescence of sequentially N-alkylated tetrabenzotetraaza[8]circulenes. <i>New Journal of Chemistry</i> , 2017, 41, 7621-7625.	2.8	9
59	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.	2.4	9
60	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.	5.6	9
61	Magnetically induced ring currents in metallocenothiaporphyrins. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1666-1674.	2.8	9
62	Gas-Phase Peroxyl Radical Recombination Reactions: A Computational Study of Formation and Decomposition of Tetroxides. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4046-4056.	2.5	9
63	The first example of a one-step synthesis of 2-O-acetyl aryl-d-glucopyranosides. <i>Carbohydrate Research</i> , 2015, 409, 36-40.	2.3	8
64	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.	2.3	8
65	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.	4.0	8
66	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.	2.3	7
67	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.	4.0	7
68	Dianthracenylazatrioxa[8]circulene: Synthesis, Characterization and Application in OLEDs. <i>Chemistry - A European Journal</i> , 2021, 27, 11609-11617.	3.3	7
69	Influence of perhalophenyl groups in the TADF mechanism of diphosphino gold complexes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4894-4904.	5.5	7
70	Odd-Number Cyclo[n]Carbons Sustaining Alternating Aromaticity. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2445-2452.	2.5	7
71	Vibronic absorption spectra of the angular fused bisindolo- and biscarbazoloanthracene blue fluorophores for OLED applications. <i>Chemical Physics</i> , 2018, 513, 105-111.	1.9	6
72	Deacetylation of per-acetylated glycopyranosides: An overall pattern for acidic catalysis. <i>Chemical Physics Letters</i> , 2019, 723, 123-127.	2.6	6

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73	Less is more: On the effect of benzannulation on solid-state emission of difluoroborates. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	6
74	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.	2.8	6
75	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.	3.9	5
76	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.	1.8	5
77	Theoretical Investigation of the Structural and Spectroscopic Properties of Anthracene Dimers. <i>Russian Physics Journal</i> , 2014, 57, 95-99.	0.4	5
78	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.	1.8	5
79	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.	3.9	5
80	Optical tuning of tetrabenzo[8]circulene derivatives through pseudorotational conformational isomerization. <i>Dyes and Pigments</i> , 2018, 151, 372-379.	3.7	5
81	The aromaticity of verdazyl radicals and their closed-shell charged species. <i>New Journal of Chemistry</i> , 2018, 42, 19987-19994.	2.8	5
82	Computational study of aromaticity, ¹ 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.	2.8	5
83	A hybrid molecular sensitizer for triplet fusion upconversion. <i>Chemical Engineering Journal</i> , 2021, 426, 131282.	12.7	5
84	Photo- and Electroluminescent Neutral Iridium(III) Complexes Bearing Imidoamidinate Ligands. <i>Inorganic Chemistry</i> , 2022, 61, 8670-8684.	4.0	5
85	Electronic absorption spectrum of monoaminosubstituted tetraphenylporphyrin with diethylenetriaminepenetaacetic acid for the substitute. <i>Russian Physics Journal</i> , 2012, 55, 378-382.	0.4	4
86	The effect of anion complexation on the aromatic properties of aromatic and antiaromatic porphyrinoids. <i>New Journal of Chemistry</i> , 2020, 44, 20643-20650.	2.8	4
87	Design, synthesis and evaluation of a new Mn ²⁺ Contrast agent for MR imaging of myocardium based on the DTPA-phenylpentadecanoic acid complex. <i>Chemical Physics Letters</i> , 2016, 665, 111-116.	2.6	3
88	Electroluminescence of a Zinc Complex Exciplex with a Hole-Transporting Material. <i>Russian Physics Journal</i> , 2019, 62, 140-146.	0.4	3
89	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.	2.6	3
90	Photophysical properties of the triangular [Au(HNiCOH)] ₃ complex and its dimer. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10314-10321.	2.8	3

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91	General and Simple Method for the Synthesis of 3-nitroformazan Using Arenediazonium Tosylates. <i>Current Organic Synthesis</i> , 2016, 13, 623-628.	1.3	3
92	Stimulated Emission of Active Media in the Red Spectral Range. <i>Russian Physics Journal</i> , 2016, 59, 1-7.	0.4	2
93	Optimization of core valence states of molecules. <i>Molecular Physics</i> , 2017, 115, 252-259.	1.7	2
94	Influence of Molecular Oxygen on Ortho-Para Conversion of Water Molecules. <i>Russian Physics Journal</i> , 2017, 60, 485-493.	0.4	2
95	Ab Initio Study of Phosphorescence of Hetero[8]Circulenes. <i>Russian Physics Journal</i> , 2019, 62, 406-410.	0.4	2
96	Photophysical Constants of the Tetraoxa[8]Circulene Molecule. <i>Russian Physics Journal</i> , 2019, 61, 1759-1763.	0.4	2
97	Complex Study of Electronic States and Spectra of 3-Nitroformazans. <i>Russian Physics Journal</i> , 2016, 59, 197-203.	0.4	1
98	Theoretical Study of Nonradiative Energy Transfer from Exciplex to Perovskites. <i>Russian Physics Journal</i> , 2020, 62, 1911-1916.	0.4	1
99	Vibronic Spectra of Bifluorene and Terfluorene. <i>Russian Physics Journal</i> , 2022, 64, 2082-2088.	0.4	1
100	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.	2.4	0