

# Vitaliy I Vovna

## List of Publications by Year in descending order

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54  
papers

471  
citations

623699

14  
h-index

794568

19  
g-index

56  
all docs

56  
docs citations

56  
times ranked

330  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Ab initio</i> calculation of energy levels of trivalent lanthanide ions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14564-14577.	2.8	31
2	Electronic structure and optical properties of boron difluoride dibenzoylmethane F2Bdbm. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 189, 116-121.	1.7	28
3	Electronic structures and photoelectron spectra of zinc(II) bis- $\beta$ -diketonates. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2012, 38, 36-43.	1.0	26
4	Application of DFT for the modeling of the valence region photoelectron spectra of boron and d- $\pi$ element complexes and macromolecules. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 325-332.	2.0	26
5	Excited states and absorption spectra of $\beta$ -diketonate complexes of boron difluoride with aromatic substituents. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2012, 112, 497-505.	0.6	22
6	Luminescence of solvate of boron difluoride dibenzoylmethanate with benzene: Aggregates formation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 120, 119-125.	3.9	22
7	Electronic structure and photoelectron spectra of nickel(II) acetylacetonate. <i>Russian Journal of Physical Chemistry B</i> , 2013, 7, 220-224.	1.3	21
8	Photoelectron spectra and electronic structure of some spiroborate complexes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 197, 43-49.	1.7	21
9	Electronic Structure and Optical Properties of Boron Difluoride Dibenzoylmethane Derivatives. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7361-7369.	2.5	20
10	Halide Perovskite-Derived Compounds $Rb_2TeX_6$ (X = Cl, Br, and I): Electronic Structure of the Ground and First Excited States. <i>Inorganic Chemistry</i> , 2019, 58, 6796-6803.	4.0	20
11	Photoelectron spectra and electronic structure of boron difluoride $\beta$ -diketonates with aromatic substituents. <i>Russian Journal of Physical Chemistry A</i> , 2013, 87, 688-693.	0.6	18
12	Chemical Composition of Antifriction Micro-arc Oxide Coatings on Titanium Alloy BT16. <i>Protection of Metals</i> , 2001, 37, 168-172.	0.2	16
13	Photoelectron spectra and electron structure of boron difluoride ethyl acetate, boron difluoride benzoyl acetate, and its derivatives. <i>Russian Journal of Physical Chemistry A</i> , 2011, 85, 1942-1948.	0.6	16
14	Electronic structure and luminescence of antimony (III) halide complexes with N,N'-diphenylguanidine. <i>Journal of Molecular Structure</i> , 2015, 1091, 138-146.	3.6	14
15	The photoelectron spectroscopy and electronic structure of metal $\beta$ -diketonates and their analogs. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 88-91, 109-117.	1.7	13
16	Electronic structure of tris-dibenzoylmethanates of Sc, Y, La rare-earth elements from the results of studies by X-ray photoelectron spectroscopy and density functional theory. <i>Journal of Structural Chemistry</i> , 2014, 55, 1057-1066.	1.0	13
17	Boron difluoride dibenzoylmethane derivatives: Electronic structure and luminescence. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 563-570.	3.9	12
18	Electronic structure and optical properties of boron difluoride naphthaloyl- and anthracenoylacetates. <i>Journal of Luminescence</i> , 2018, 195, 79-86.	3.1	9

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19	Theoretical insights into UV-Vis absorption spectra of difluoroboron $\beta^2$ -diketonates with an extended $\pi$ system: An analysis based on DFT and TD-DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 216, 161-172.	3.9	9
20	A study of the crystal structure of chloro- and bromo-substituted acetylacetonates of boron difluoride. <i>Journal of Structural Chemistry</i> , 2012, 53, 1105-1110.	1.0	7
21	Electronic structure of guanidine and its derivatives from X-ray photoelectron spectroscopy and density functional theory studies. <i>Russian Journal of General Chemistry</i> , 2014, 84, 25-32.	0.8	7
22	Ultraviolet and X-ray photoelectron spectra and the electronic structure of Eu(III) and Lu(III) $\beta^2$ -diketonate complexes. <i>Journal of Structural Chemistry</i> , 2015, 56, 538-547.	1.0	7
23	Electronic structure of binuclear acetylacetonates of boron difluoride. <i>Journal of Molecular Structure</i> , 2018, 1160, 92-100.	3.6	6
24	Spectroscopic and quantum chemical study of difluoroboron $\beta^2$ -diketonate luminophores: Isomeric acetylnaphtholate chelates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 67-78.	3.9	6
25	The electron relaxation and UP spectra of metal coordination compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 96, 141-148.	1.7	5
26	Electronic structure of some bis- $\beta^2$ -diketonates of zinc and their thio-analogs. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 88-91, 119-124.	1.7	5
27	Photoelectron spectra and electronic structure of some zinc thio- $\beta^2$ -diketonates. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2003, 128, 51-57.	1.7	5
28	Photoelectron spectra and electronic structure of boron dipropyl imidoamidates. <i>Journal of Structural Chemistry</i> , 2015, 56, 446-453.	1.0	5
29	Experimental and theoretical investigation of aluminium, gallium and indium tris-acetylacetonates ground, excited and ionized states nature. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1998, 88-91, 103-108.	1.7	4
30	A study of the electronic structure of polyvinylsiloxane (CH <sub>2</sub> CHSiO <sub>1.5</sub> ) <sub>n</sub> by X-ray photoelectron spectroscopy and quantum chemical modeling in the DFT approximation. <i>Journal of Structural Chemistry</i> , 2010, 51, 875-880.	1.0	4
31	Effect of hydration on the luminescence properties of 2,2-difluoro-4-methylnaphtho[2,1-e]-1,3,2-dioxaborine. Quantum chemical modeling and experiment. <i>Russian Chemical Bulletin</i> , 2010, 59, 1041-1046.	1.5	4
32	Influence of hydration on the optical properties of 2,2-difluoro-4-methylnaphtho-[1,2-e]-1,3,2-dioxaborine. Quantum chemical modeling and experimental study. <i>Russian Chemical Bulletin</i> , 2011, 60, 1537-1544.	1.5	4
33	Photoelectron spectra and electronic structure of boron acetylacetonates with organic substituents. <i>Russian Journal of Physical Chemistry B</i> , 2014, 8, 626-633.	1.3	4
34	Photoelectron spectra and electronic structure of nitrogen analogues of boron $\beta^2$ -diketonates. <i>Journal of Molecular Structure</i> , 2016, 1115, 1-7.	3.6	4
35	Photoelectron spectra and electronic structure of boron diacetate formazanates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 238, 118441.	3.9	4
36	Quantum-chemical modeling of photoelectron spectra and electronic structure of tris- $\beta^2$ -diketonates of 3d-metals Sc, Ti, V. <i>Journal of Structural Chemistry</i> , 2004, 45, 617-625.	1.0	3

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37	Electronic and geometric structure of the protonated forms of nickel $\hat{I}^2$ -diketonates. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2011, 37, 371-376.	1.0	3
38	Electronic structure of nitrogen-containing intracomplex nickel(II) compounds based on ultraviolet photoelectron spectra and density functional theory. Journal of Structural Chemistry, 2015, 56, 548-556.	1.0	3
39	Photoelectron spectra and electronic structure of nitrogen analogues of boron $\hat{I}^2$ -diketonates with aromatic substituents. Journal of Electron Spectroscopy and Related Phenomena, 2016, 213, 32-38.	1.7	3
40	Interaction of hydroxy substituted dibenzoylmethanoboron difluoride with hydrated ammonia in solution: A combined spectroscopic and computational study. Journal of Molecular Structure, 2019, 1175, 601-608.	3.6	3
41	The electronic structure of trifluorobenzoylacetates of Al(III), Ga(III) and In(III). Journal of Electron Spectroscopy and Related Phenomena, 1998, 96, 215-219.	1.7	2
42	Electronic Structure of Ni(II) Acetylacetonate and Its $\hat{I}^3$ -Substituted Analogs. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2002, 28, 848-850.	1.0	2
43	DFT and CI Studies of Electronic Structure and Photoionization of Sc, Ti, V, Cr, and Co Tris- $\hat{I}^2$ -diketonate Complexes. Journal of Structural Chemistry, 2004, 45, 740-747.	1.0	2
44	Quantum-chemical studies of the protonation of beryllium $\hat{I}^2$ -diketonates. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2010, 36, 436-441.	1.0	2
45	Electronic structure of octavinyl- and octaphenylsilsesquioxane from XPS and DFT data. Journal of Structural Chemistry, 2013, 54, 515-522.	1.0	2
46	The effects of vibrational relaxation on oxygen K-emission spectra short-wave structure of chelate complexes. Journal of Electron Spectroscopy and Related Phenomena, 1994, 68, 223-231.	1.7	1
47	Photoelectron spectroscopy of transition metal complexes. Effect of electron relaxation on spectrum informativity. Journal of Structural Chemistry, 1998, 39, 917-922.	1.0	1
48	Title is missing!. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2001, 27, 664-668.	1.0	1
49	Title is missing!. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2001, 27, 105-111.	1.0	1
50	The Change in Coordination Mode of Malonodialdehyde Ligands in Be and Mg $\hat{I}^2$ -Diketonate Complexes. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2005, 31, 390-397.	1.0	1
51	Modeling of cationic and excited states of $\hat{I}^3$ -substituted boron difluoride acetylacetonates. Journal of Molecular Structure, 2019, 1197, 108-116.	3.6	1
52	Electronic Structure of Substituted Magnesium Malonates and Malonic Aldehyde Dianion Associates. Journal of Structural Chemistry, 2001, 42, 177-180.	1.0	0
53	Title is missing!. Journal of Structural Chemistry, 2002, 43, 727-733.	1.0	0
54	Title is missing!. Journal of Structural Chemistry, 2002, 43, 908-913.	1.0	0