Sergei Katsyuba

List of Publications by Year
in descending order

167	3,215	172386	189801
papers	citations	29 h-index	50 g-index

171	171	171	3721
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of Density Functional Theory and Vibrational Spectroscopy Toward the Rational Design of Ionic Liquids. Journal of Physical Chemistry A, 2007, 111, 352-370.	1.1	238
2	Molecular Structure, Vibrational Spectra, and Hydrogen Bonding of the Ionic Liquid 1-Ethyl-3-methyl-1H-imidazolium Tetrafluoroborate. Helvetica Chimica Acta, 2004, 87, 2556-2565.	1.0	197
3	Ab Initio and DFT Predictions of Infrared Intensities and Raman Activities. Journal of Physical Chemistry A, 2011, 115, 63-69.	1.1	132
4	How Strong Is Hydrogen Bonding in Ionic Liquids? Combined X-ray Crystallographic, Infrared/Raman Spectroscopic, and Density Functional Theory Study. Journal of Physical Chemistry B, 2013, 117, 9094-9105.	1.2	130
5	Intricacies of Cationâ€“Anion Combinations in Imidazolium Salt-Catalyzed Cycloaddition of CO₂ Into Epoxides. ACS Catalysis, 2018, 8, 2589-2594.	5.5	129
6	Revisiting Ether-Derivatized Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry B, 2007, 111, 10095-10108.	1.2	121
7	A Rhodium Nanoparticleâ€“Lewis Acidic Ionic Liquid Catalyst for the Chemoselective Reduction of Heteroarenes. Angewandte Chemie - International Edition, 2016, 55, 292-296.	7.2	112
8	Bipyridine and phenanthroline IR-spectral bands as indicators of metal spin state in hexacoordinated complexes of Fe(<scp>ii</scp>), Ni(<scp>ii</scp>) and Co(<scp>ii</scp>). Dalton Transactions, 2013, 42, 1787-1797.	1.6	82
9	Enhanced Conversion of Carbohydrates to the Platform Chemical 5â€Hydroxymethylfurfural Using Designer Ionic Liquids. ChemSusChem, 2014, 7, 1647-1654.	3.6	65
10	Synthesis of novel pyridyl containing phospholanes and their polynuclear luminescent copper(<scp>i</scp>) complexes. Dalton Transactions, 2016, 45, 2250-2260.	1.6	63
11	A remarkable anion effect on palladium nanoparticle formation and stabilization in hydroxyl-functionalized ionic liquids. Physical Chemistry Chemical Physics, 2012, 14, 6026.	1.3	59
12	Structural Studies of the Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate in Dichloromethane Using a Combined DFT-NMR Spectroscopic Approach. Journal of Physical Chemistry B, 2009, 113, 5046-5051.	1.2	55
13	Scaled quantum mechanical computations of vibrational spectra of organoelement molecules, containing the atoms P, S, and Cl. Chemical Physics Letters, 2003, 377, 658-662.	1.2	53
14	DFT study of substitution effect on the geometry, IR spectra, spin state and energetic stability of the ferrocenes and their pentaphospholyl analogues. Journal of Organometallic Chemistry, 2010, 695, 2586-2595.	0.8	49
15	Vibrational spectra, co-operative intramolecular hydrogen bonding and conformations of calix[4]arene and thiacalix[4]arene molecules and their para-tert-butyl derivatives. Organic and Biomolecular Chemistry, 2005, 3, 2558.	1.5	41
16	Zn and Co redox active coordination polymers as efficient electrocatalysts. Dalton Transactions, 2019, 48, 3601-3609.	1.6	41
17	Vibrational spectra and conformational isomerism of calixarene building blocks. Part I. Diphenylmethane, (C 6 H 5) 2 CH 2. Journal of Molecular Structure, 2001, 559, 315-320.	1.8	40
18	Phosphonium ionic liquids based on bulky phosphines: synthesis, structure and properties. Dalton Transactions, 2010, 39, 5564.	1.6	39

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19	Quantification of Conventional and Nonconventional Charge-Assisted Hydrogen Bonds in the Condensed and Gas Phases. Journal of Physical Chemistry Letters, 2015, 6, 4431-4436.	2.1	39
20	Synthesis, structure, and transition metal complexes of amphiphilic 1,5-diaza-3,7-diphosphacyclooctanes. Heteroatom Chemistry, 2006, 17, 499-513.	0.4	36
21	Synthesis and structure of ferrocenylphosphinic acids. Journal of Organometallic Chemistry, 2014, 766, 40-48.	0.8	36
22	Cooperative intramolecular hydrogen bond and conformations of thiocalix[4]arene molecules. Russian Chemical Bulletin, 2002, 51, 825-827.	0.4	35
23	Complex Formation of dâ€Metal Ions at the Interface of Tb^{III}â€Doped Silica Nanoparticles as a Basis of Substrateâ€Responsive Tb^{III}â€Centered Luminescence. ChemPhysChem, 2012, 13, 3357-3364.	1.0	35
24	Reversible Water-Induced Structural and Magnetic Transformations and Selective Water Adsorption Properties of Poly(manganese 1,1â€²-ferrocenediyl-bis(H-phosphinate)). Crystal Growth and Design, 2016, 16, 5084-5090.	1.4	34
25	The Assembly of Unique Hexanuclear Copper(I) Complexes with Effective White Luminescence. Inorganic Chemistry, 2019, 58, 1048-1057.	1.9	34
26	Mass Spectrometric and Theoretical Study of Polyiodides: The Connection between Solid State, Solution, and Gas Phases. Inorganic Chemistry, 2011, 50, 9728-9733.	1.9	33
27	Is There a Simple Way to Reliable Simulations of Infrared Spectra of Organic Compounds?. Journal of Physical Chemistry A, 2013, 117, 6664-6670.	1.1	33
28	Unexpected ligand effect on the catalytic reaction rate acceleration for hydrogen production using biomimetic nickel electrocatalysts with 1,5-diaza-3,7-diphosphacyclooctanes. Journal of Organometallic Chemistry, 2015, 789-790, 14-21.	0.8	31
29	Conjugation in and Optical Properties of 1-R-1,2-Diphospholes and 1-R-Phospholes. Journal of Physical Chemistry A, 2014, 118, 12168-12177.	1.1	30
30	Composite materials containing chromophores with 3,7-(di)vinylquinoxalinone Ï€-electron bridge doped into PMMA: Atomistic modeling and measurements of quadratic nonlinear optical activity. Dyes and Pigments, 2018, 158, 131-141.	2.0	29
31	Rationalization of Solvation and Stabilization of Palladium Nanoparticles in Imidazoliumâ€Based Ionic Liquids by DFT and Vibrational Spectroscopy. ChemPhysChem, 2012, 13, 1781-1790.	1.0	27
32	High thermally stable Dâ€“Ï€â€“A chromophores with quinoxaline moieties in the conjugated bridge: Synthesis, DFT calculations and physical properties. Dyes and Pigments, 2018, 156, 175-184.	2.0	27
33	Fresh Look on the Nature of Dual-Band Emission of Octahedral Copper-Iodide Clustersâ€”Promising Ratiometric Luminescent Thermometers. Journal of Physical Chemistry C, 2019, 123, 25863-25870.	1.5	26
34	Fast Quantum Chemical Simulations of Infrared Spectra of Organic Compounds with the B97-3c Composite Method. Journal of Physical Chemistry A, 2019, 123, 3802-3808.	1.1	26
35	Calorimetric and spectroscopic studies on solvation energetics for H₂storage in the CO₂/HCOOH system. Physical Chemistry Chemical Physics, 2016, 18, 10764-10773.	1.3	25
36	Application of Time-Dependent Density Functional Theory and Optical Spectroscopy toward the Rational Design of Novel 3,4,5-Triaryl-1-R-1,2-diphospholes. Journal of Physical Chemistry A, 2013, 117, 6827-6834.	1.1	24

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37	Delineation of the Critical Parameters of Salt Catalysts in the Nâ€‹Formylation of Amines with CO₂. Chemistry - A European Journal, 2019, 25, 11074-11079.	1.7	24
38	Solvation of Palladium Clusters in an Ionic Liquid: A QM/MM Molecular Dynamics Study. Journal of Physical Chemistry C, 2016, 120, 4596-4604.	1.5	23
39	Pushâ€“pull isomeric chromophores with vinyl- and divinylquinoxaline-2-one units as Ï€-electron bridge: Synthesis, photophysical, thermal and electro-chemical properties. Dyes and Pigments, 2017, 146, 82-91.	2.0	23
40	High-temperature spin-crossover in coordination compounds of iron(II) with tris(pyrazol-1-yl)methane. Inorganica Chimica Acta, 2010, 363, 4059-4064.	1.2	22
41	Solvation and stabilization of palladium nanoparticles in phosphonium-based ionic liquids: a combined infrared spectroscopic and density functional theory study. Physical Chemistry Chemical Physics, 2014, 16, 20672-20680.	1.3	22
42	Novel amphiphilic conjugates of p-tert-butylthiacalix[4]arene with 10,12-pentacosadiynoic acid in 1,3-alternate stereoisomeric form. Synthesis and chromatic properties in the presence of metal ions. New Journal of Chemistry, 2018, 42, 2942-2951.	1.4	22
43	Large nonlinear optical activity of chromophores with divinylquinoxaline conjugated Ï€-bridge. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 370, 58-66.	2.0	22
44	Synthesis and Stereoselective Interconversion of Chiral 1â€Azaâ€3,6â€diphosphacycloheptanes. European Journal of Inorganic Chemistry, 2012, 2012, 1857-1866.	1.0	21
45	Novel quinoxalinone-based pushâ€“pull chromophores with highly sensitive emission and absorption properties towards small structural modifications. Physical Chemistry Chemical Physics, 2018, 20, 21515-21527.	1.3	21
46	A novel acid-catalyzed rearrangement of 2-substituted-3-(2-nitrophenyl)oxiranes for the synthesis of di- and mono-oxalamides. RSC Advances, 2016, 6, 27885-27895.	1.7	20
47	Intriguing Near-Infrared Solid-State Luminescence of Binuclear Silver(I) Complexes Based on Pyridylphospholane Scaffolds. Inorganic Chemistry, 2019, 58, 7698-7704.	1.9	20
48	Vibrational spectra, conformations and force constants of dialkylphosphites (RO)2P(O)H. Journal of Molecular Structure, 1992, 269, 1-21.	1.8	19
49	â€œHostâ€“guestâ€•binding of a luminescent dinuclear Au(<scp>i</scp>) complex based on cyclic diphosphine with organic substrates as a reason for luminescence tuneability. New Journal of Chemistry, 2016, 40, 9853-9861.	1.4	19
50	Fast and Accurate Quantum Chemical Modeling of Infrared Spectra of Condensed-Phase Systems. Journal of Physical Chemistry B, 2020, 124, 6664-6670.	1.2	18
51	The hydrogen bonding and tautomerism of pyrimidine containing macrocycles. IR, UV and quantum chemical studies. Journal of Molecular Structure, 2004, 707, 1-9.	1.8	16
52	Pyridyl Containing 1,5-Diaza-3,7-diphosphacyclooctanes as Bridging Ligands for Dinuclear Copper(I) Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 895-902.	0.6	16
53	Novel water soluble cationic Au(I) complexes with cyclic PNNP ligand as building blocks for heterometallic supramolecular assemblies with anionic hexarhenium cluster units. Journal of Luminescence, 2018, 196, 485-491.	1.5	16
54	Isomeric indolizine-based Ï€-expanded pushâ€“pull NLO-chromophores: Synthesis and comparative study. Journal of Molecular Structure, 2018, 1156, 74-82.	1.8	16

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55	Revisiting conformations of methyl lactate in water and methanol. Journal of Chemical Physics, 2021, 155, 024507.	1.2	16
56	Conformations and coordination properties of trialkyltrithiophosphites in copper(I) complexes. Journal of Molecular Structure, 2000, 554, 127-140.	1.8	15
57	A simple physical model for the simultaneous rationalisation of melting points and heat capacities of ionic liquids. Physical Chemistry Chemical Physics, 2010, 12, 13780.	1.3	15
58	The Molecular Design of â€œCarcassâ€•Type Phosphoranes, Based on the Reaction of P(III)-Cyclic Derivatives and Unsaturated Activated Compounds. Phosphorus, Sulfur and Silicon and the Related Elements, 2011, 186, 652-656.	0.8	15
59	Efficient synthesis and structure peculiarity of macrocycles with bi-indolizinylquinoxalinone moieties. Tetrahedron, 2013, 69, 10675-10687.	1.0	15
60	Infrared and Raman bands of cyclopentadienyl ligands as indicators of electronic configuration of metal centers in metallocenes. Journal of Organometallic Chemistry, 2015, 776, 30-34.	0.8	15
61	One-pot synthesis of aryl-substituted 1,2,3-triphospholide anions. Journal of Organometallic Chemistry, 2017, 844, 1-7.	0.8	14
62	IR and UV study of reversible water-induced structural transformations of poly(manganese) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Tc of Molecular Structure, 2018, 1166, 237-242.	1.8	14
63	Supramolecular Organization of Solid Azobenzene Chromophore Disperse Orange 3, Its Chloroform Solutions, and PMMA-Based Films. Journal of Physical Chemistry C, 2018, 122, 1779-1785.	1.5	13
64	Nonlinear optical activity of pushâ€“pull indolizine-based chromophores with various acceptor moieties. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 764-772.	2.0	13
65	To what extent are the photophysical properties of quinoxaline- and quinoxalinone-based chromophores predictable?. Dyes and Pigments, 2019, 170, 107580.	2.0	13
66	Vibrational spectra and conformational isomerism of calixarene building blocks. III. 2,6-Dimethylanisole and n-propyl-2,6-dimethylphenyl ether. Journal of Molecular Structure, 2002, 610, 113-125.	1.8	12
67	Vibrational spectra and conformational isomerism of calixarene building blocks: 2-benzylphenolPart IV. For Parts Iâ€“III see refs. 1â€“3.. Organic and Biomolecular Chemistry, 2003, 1, 714-719.	1.5	12
68	Binding energies, vibrations and structural characteristics of small polyphosphorus molecules from quantum chemical computations. Dalton Transactions, 2005, , 1701.	1.6	12
69	Comparative Study of Conjugational Effects in 3,4,5-Triaryl-1-R-1,2-Diphospholes and 3,4,5-Triaryl-1,2-Diphosphacyclopentadienide-Anions. Phosphorus, Sulfur and Silicon and the Related Elements, 2015, 190, 858-862.	0.8	12
70	Computerâ€aided simulation of infrared spectra of ethanol conformations in gas, liquid and in <scp>CCl₄</scp> solution. Journal of Computational Chemistry, 2022, 43, 279-288.	1.5	12
71	The role of London dispersion interactions in strong and moderate intermolecular hydrogen bonds in the crystal and in the gas phase. Chemical Physics Letters, 2017, 672, 124-127.	1.2	11
72	Benzimidazolylquinoxalines: novel fluorophores with tuneable sensitivity to solvent effects. Physical Chemistry Chemical Physics, 2017, 19, 6095-6104.	1.3	11

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73	Synthesis, spatial and electronic structure of 1-(+)-neomenthyl-1,2-diphosphole and 1-(+)-neomenthyl-1,2,4-triphosphole tungstenpentacarbonyl complexes. Journal of Organometallic Chemistry, 2018, 867, 125-132.	0.8	11
74	Novel enantiopure monophospholes: synthesis, spatial and electronic structure, photophysical characteristics and conjugation effects. Dalton Transactions, 2018, 47, 11521-11529.	1.6	11
75	Silica nanoparticles with dual visibleâ€“NIR luminescence affected by silica confinement of Tb(III) and Yb(III) complexes for cellular imaging application. Journal of Materials Science, 2019, 54, 9140-9154.	1.7	11
76	Synthesis, structure, and electrochemical properties of 4,5-diaryl-1,2,3-triphosphaferrocenes and the first example of multi(phosphaferrocene). Dalton Transactions, 2020, 49, 17252-17262.	1.6	11
77	Triple-bridged helical binuclear copper(<scp>i</scp>) complexes: Head-to-head and head-to-tail isomerism and the solid-state luminescence. Dalton Transactions, 2020, 49, 11997-12008.	1.6	11
78	Synthesis, IR/Raman, and quantum-chemical structural analysis of new octathiotetraphosphetane ammonium salts. Heteroatom Chemistry, 2011, 22, 24-30.	0.4	10
79	Synthesis and structure of the iron(iii) tris-chelate complex based on 1,1Â´-ferrocenediylbis(phenylphosphinic acid). Russian Chemical Bulletin, 2015, 64, 1819-1822.	0.4	10
80	Conjugation effects and optical spectra of 1,2-diphosphole cycloadducts. Russian Chemical Bulletin, 2015, 64, 1896-1900.	0.4	10
81	The influence of different substituents on the geometrical changes in the heterocyclic moiety of 1,2-diphospholes. Phosphorus, Sulfur and Silicon and the Related Elements, 2016, 191, 1646-1649.	0.8	10
82	Acidâ€Catalyzed Rearrangements of 3â€Aryloxiraneâ€2â€Carboxamides: Novel DFT Mechanistic Insights. ChemistryOpen, 2020, 9, 743-747.	0.9	10
83	Principal Descriptors of Ionic Liquid Co-catalysts for the Electrochemical Reduction of CO₂. ACS Applied Energy Materials, 2020, 3, 4690-4698.	2.5	10
84	13,17,53,57-Tetraphenyl-13,17,53,57-tetrathio-3,7-dithia-1,5(1,5)-di(1,5-diaza-3,7-diphosphacyclooctana)-2,4,6,8(1,4)-tetrabenzenacycl with an unusual conical-like conformation. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2008, 60, 321-328.	1.6	9
85	IR and Raman spectra, hydrogen bonds, and conformations of N-(2-hydroxyethyl)-4,6-dimethyl-2-oxo-1,2-dihydropyrimidine (drug Xymedone). Russian Chemical Bulletin, 2012, 61, 1199-1206.	0.4	9
86	Theoretical study of the excited state properties of luminescent phospholes. Dyes and Pigments, 2019, 164, 363-371.	2.0	9
87	Indolizine-based chromophores with octatetraene Ï€-bridge and tricyanofurane acceptor: Synthesis, photophysical, electrochemical and electro-optic properties. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 386, 112125.	2.0	9
88	Energetics of intramolecular hydrogen bonds and conformations of Â-diphenylphosphoryl- and Â-diphenylthiophosphoryl-substituted aliphatic alcohol molecules. Russian Chemical Bulletin, 2004, 53, 55-59.	0.4	8
89	Variable temperature IR spectroscopy and quantum chemistry as the tool for diagnostics of metal spin state. Chemical Physics Letters, 2010, 495, 50-54.	1.2	8
90	Synthesis and magnetic properties of manganese carbonyl complexes with different coordination modes of 3,4,5-triaryl-1,2-diphospholide ligands. Dalton Transactions, 2015, 44, 10259-10266.	1.6	8

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91	Synthesis and photophysical properties of 2,3,4,5-tetraphenyl-1-n-octyl-1-monophosphole. Russian Chemical Bulletin, 2019, 68, 445-448.	0.4	8
92	D-Ї€-A'-Ї€-A chromophores with quinoxaline core in the Ї€-electron bridge and charged heterocyclic acceptor moiety: Synthesis, DFT calculations, photophysical and electro-chemical properties. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 407, 113042.	2.0	8
93	IR and NMR spectra, intramolecular hydrogen bonding and conformations of mercaptothiacalix[4]arene molecules and their para-tert-butyl-derivative. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2008, 60, 281-291.	1.6	7
94	Quantum chemical investigation of the structures of ionic liquids based on 1-ethyl-3-methylimidazolium halides: IR spectra and hydrogen bonds. Russian Chemical Bulletin, 2009, 58, 1812-1816.	0.4	7
95	First neutral dinuclear cobalt complex formed by bridging [Î¼-O2P(H)R]â€“ ligands: synthesis, X-ray crystal structure and quantum-chemical study. Mendeleev Communications, 2015, 25, 27-28.	0.6	7
96	The first representatives of tetranuclear gold(<scp>i</scp>) complexes of P,N-containing cyclophanes. Dalton Transactions, 2018, 47, 7715-7720.	1.6	7
97	Oneâ€Electron Reduction of Acenaphtheneâ€1,2â€Diimine Nickel(II) Complexes. Chemistry - an Asian Journal, 2019, 14, 2979-2987.	1.7	7
98	Comparative studies of geometric and quasielastic characteristics of PP and SS bonds. Dalton Transactions, 2008, , 1465.	1.6	6
99	Synthesis, X-ray crystal structure and quantum-chemical study of new dinuclear cobalt complex {Co2[mmm-O2P(H)Mes]2(bpy)4}Br2. Mendeleev Communications, 2013, 23, 135-136.	0.6	6
100	Thermal stability of primary and secondary phosphine oxides formed as a reaction of phosphine oxide with ketones. Phosphorus, Sulfur and Silicon and the Related Elements, 2016, 191, 1480-1481.	0.8	6
101	A fresh look at participation of phosphorus atom in conjugation. Phosphorus, Sulfur and Silicon and the Related Elements, 2016, 191, 417-422.	0.8	6
102	Ferrocene-Containing Sterically Hindered Phosphonium Salts. Molecules, 2018, 23, 2773.	1.7	6
103	Synthesis and characterization of poly([Eu or Dy] 1,1â€™-ferrocenediyl-bis(H-phosphinates)). Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 459-462.	0.8	6
104	Thermally Stable Nitrothiacalixarene Chromophores: Conformational Study and Aggregation Behavior. International Journal of Molecular Sciences, 2020, 21, 6916.	1.8	6
105	What quantum chemical simulations tell us about the infrared spectra, structure and interionic interactions of a bulk ionic liquid. Physical Chemistry Chemical Physics, 2022, 24, 7349-7355.	1.3	6
106	Vibrational spectra, conformations and intramolecular interactions of the Cl2Pâ€“Oâ€“(CH2)2SCN molecule. Journal of Molecular Structure, 1997, 435, 281-288.	1.8	5
107	Synthesis, IR Spectra, and Steric Structure of Macrocycles Derived from Pyrimidine Compounds. Russian Journal of General Chemistry, 2002, 72, 1625-1632.	0.3	5
108	The effect of stacking arrangement on the conjugation in azochromophores revealed by combination of Raman spectroscopy and DFT calculations. Chemical Physics Letters, 2016, 659, 242-246.	1.2	5

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109	Leaching from Palladium Nanoparticles in an Ionic Liquid Leads to the Formation of Ionic Monometallic Species. Journal of Physical Chemistry Letters, 2017, 8, 3452-3456.	2.1	5
110	Rearrangement of two 8-membered 1,5-diaza-3,7-diphosphacyclooctane rings into 16-membered P4N4 ligand on the gold(i) template. Mendeleev Communications, 2020, 30, 40-42.	0.6	5
111	Stimuli-responsive emission of quinoxalinone-based compounds. From experimental findings to theoretical insight by means of multiscale computational spectroscopy approaches. Dyes and Pigments, 2021, 184, 108797.	2.0	5
112	Mechanistic Insights for Acidâ€catalyzed Rearrangement of Quinoxalinâ€2â€one with Diamine and Enamine. ChemCatChem, 2021, 13, 1503-1508.	1.8	5
113	Temperature-sensitive emission of dialkylaminostyrylhetarene dyes and their incorporation into phospholipid aggregates: Applicability for thermal sensing and cellular uptake behavior. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 268, 120647.	2.0	5
114	Germylene complexes of tungsten pentacarbonyls W(CO)5GeCl2 and W(CO)5GeW(CO)5: Electrochemical synthesis and quantum-chemical computations. Journal of Organometallic Chemistry, 2007, 692, 4067-4072.	0.8	4
115	Switching Ion Binding Selectivity of Thiacalix[4]arene Monocrowns at Liquidâ€“Liquid and 2D-Confined Interfaces. International Journal of Molecular Sciences, 2021, 22, 3535.	1.8	4
116	The incorporation of upper vs lower rim substituted thia- and calix[4]arene ligands into polydiacethylene polymeric bilayers for rational design of sensors to heavy metal ions. Polymer, 2022, 245, 124728.	1.8	4
117	Force constants and vibrational spectra of molecules RP(X)F2. Journal of Applied Spectroscopy, 1985, 42, 173-177.	0.3	3
118	Towards a frustrated Lewis pair-ionic liquid system. Inorganica Chimica Acta, 2018, 470, 270-274.	1.2	3
119	Reversible temperature-responsible emission in solutions within 293â€“333â€¯K produced by dissociative behavior of multinuclear Cu(I) complexes with aminomethylphosphines. Inorganica Chimica Acta, 2019, 498, 119125.	1.2	3
120	Application of density functional theory and optical spectroscopy for the prediction of the photophysical properties of Ð-pyridylphospholanes. Russian Chemical Bulletin, 2019, 68, 254-261.	0.4	3
121	Water dispersible supramolecular assemblies built from luminescent hexarhenium clusters and silver(I) complex with pyridine-2-ylphospholane for sensorics. Journal of Molecular Liquids, 2020, 305, 112853.	2.3	3
122	Study of the structures and photophysical properties of 1,3-diaza-5-phosphacyclohexanes using density functional theory and optical spectroscopy. Russian Chemical Bulletin, 2020, 69, 449-457.	0.4	3
123	A rational synthetic approach to 2,3,4,5-tetraphenyl-1-monophosphole and its derivatives. Inorganic Chemistry Communication, 2021, 134, 108949.	1.8	3
124	Structural information content of the stretching vibration frequencies of PN and PO bonds in five-membered heterocyclic compounds. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1985, 34, 2064-2067.	0.0	2
125	Spectroscopic study of compounds with P-H bonds: Vibrational spectra and rotational isomers of ethyl ethylphosphite. Journal of Applied Spectroscopy, 1991, 54, 540-544.	0.3	2
126	IR and NMR spectra, intramolecular hydrogen bonding and conformations of para-tert-butyl-aminothiacalix[4]arene in solid state and chloroform solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 75, 872-879.	2.0	2

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127	Guest-induced conformation shift of p-sulphonatothiacalix[4]arene in the solid state and solution manipulated by [Zn(dipy)₃]²⁺. Supramolecular Chemistry, 2010, 22, 203-211.	1.5	2
128	Correlations between metal spin states and vibrational spectra ofÂaÂtrinuclear Fe(II) complex exhibiting spin crossover. Journal of Molecular Structure, 2015, 1101, 8-13.	1.8	2
129	2,3-(Dibenzimidazol-2-yl)quinoxalines: Unexpected Dynamical Effect on Steady-State Electronic Absorption Spectra. Journal of Physical Chemistry B, 2019, 123, 5514-5523.	1.2	2
130	Characterization of Conjugation Effects in the Series of Quinoxaline-2-ones by Means of Vibrational Raman Spectroscopy. Journal of Physical Chemistry A, 2020, 124, 3865-3875.	1.1	2
131	Towards the intercalation of Li cations to the Co(II) and Mn(II) ferrocenyl-phosphinic MOFs. Journal of Organometallic Chemistry, 2021, 932, 121641.	0.8	2
132	Vibrational spectra and rotational isomerism in Cl2PXCH3 (X=0, S). Journal of Applied Spectroscopy, 1982, 37, 1029-1033.	0.3	1
133	Force constants and vibrational spectra of methylphosphine dimethylphosphine, and trimethylphosphine. Journal of Applied Spectroscopy, 1982, 36, 553-556.	0.3	1
134	Using a priori information on the force constants in solving the inverse spectral problem. Journal of Applied Spectroscopy, 1987, 47, 807-810.	0.3	1
135	Vibrational modes and force constants ofp-bromotoluene. Russian Chemical Bulletin, 1996, 45, 2781-2783.	0.4	1
136	Vibrational spectra, conformations, and intramolecular interactions of R(CH2)2-O-PCl2 molecules (R=Et, OMe).. Journal of Molecular Structure, 1999, 475, 13-25.	1.8	1
137	Spectral study of the molecular structure of some 2-methylthio-6-methyl-4-alkyl- and alkylaminopyrimidines. Russian Journal of General Chemistry, 2011, 81, 2164-2171.	0.3	1
138	Phosphorylation of pyridoxal azomethines. Synthesis of phosphorus containing azomethines and furopyridines. Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 120-126.	0.8	1
139	Synthesis and optical properties of chromophores with a methoxyphenylindolizine moiety. AIP Conference Proceedings, 2022, , .	0.3	1
140	Energy of intramolecular hydrogen bonds in o-halophenols. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1980, 29, 1580-1582.	0.0	0
141	Spectra and molecular conformations of 1,3,2-dioxaphosphorinanes. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1981, 30, 2071-2072.	0.0	0
142	An electron-diffraction study of the tricyanophosphine molecule. Journal of Structural Chemistry, 1985, 25, 955-958.	0.3	0
143	Vibrational spectra and rotational isomerism of ethyl dichlorothiophosphite C2H5SPCl2 and triethyl trithiophosphite (C2H5S)3P. Journal of Applied Spectroscopy, 1987, 46, 467-471.	0.3	0
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