

# Sergei Katsyuba

## List of Publications by Year in descending order

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167  
papers

3,215  
citations

172386

29  
h-index

189801

50  
g-index

171  
all docs

171  
docs citations

171  
times ranked

3721  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computer-aided simulation of infrared spectra of ethanol conformations in gas, liquid and in CCl <sub>4</sub> solution. <i>Journal of Computational Chemistry</i> , 2022, 43, 279-288.	1.5	12
2	Synthesis and optical properties of chromophores with a methoxyphenylindolizine moiety. <i>AIP Conference Proceedings</i> , 2022, . .	0.3	1
3	What quantum chemical simulations tell us about the infrared spectra, structure and interionic interactions of a bulk ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7349-7355.	1.3	6
4	The incorporation of upper vs lower rim substituted thia- and calix[4]arene ligands into polydiacetylene polymeric bilayers for rational design of sensors to heavy metal ions. <i>Polymer</i> , 2022, 245, 124728.	1.8	4
5	Stimuli-responsive emission of quinoxalinone-based compounds. From experimental findings to theoretical insight by means of multiscale computational spectroscopy approaches. <i>Dyes and Pigments</i> , 2021, 184, 108797.	2.0	5
6	Towards the intercalation of Li cations to the Co(II) and Mn(II) ferrocenyl-phosphinic MOFs. <i>Journal of Organometallic Chemistry</i> , 2021, 932, 121641.	0.8	2
7	D-π-A' π-A chromophores with quinoxaline core in the π-electron bridge and charged heterocyclic acceptor moiety: Synthesis, DFT calculations, photophysical and electro-chemical properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 407, 113042.	2.0	8
8	Mechanistic Insights for Acid-catalyzed Rearrangement of Quinoxalinone with Diamine and Enamine. <i>ChemCatChem</i> , 2021, 13, 1503-1508.	1.8	5
9	Switching Ion Binding Selectivity of Thiacalix[4]arene Monocrowns at Liquid-Liquid and 2D-Confined Interfaces. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3535.	1.8	4
10	Revisiting conformations of methyl lactate in water and methanol. <i>Journal of Chemical Physics</i> , 2021, 155, 024507.	1.2	16
11	A rational synthetic approach to 2,3,4,5-tetraphenyl-1-monophosphole and its derivatives. <i>Inorganic Chemistry Communication</i> , 2021, 134, 108949.	1.8	3
12	Temperature-sensitive emission of dialkylaminostyrylhetarene dyes and their incorporation into phospholipid aggregates: Applicability for thermal sensing and cellular uptake behavior. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 268, 120647.	2.0	5
13	Indolizine-based chromophores with octatetraene π-bridge and tricyanofurane acceptor: Synthesis, photophysical, electrochemical and electro-optic properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 386, 112125.	2.0	9
14	Thermally Stable Nitrothiacalixarene Chromophores: Conformational Study and Aggregation Behavior. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6916.	1.8	6
15	Synthesis, structure, and electrochemical properties of 4,5-diaryl-1,2,3-triphosphaferrocenes and the first example of multi(phosphaferrocene). <i>Dalton Transactions</i> , 2020, 49, 17252-17262.	1.6	11
16	Triple-bridged helical binuclear copper complexes: Head-to-head and head-to-tail isomerism and the solid-state luminescence. <i>Dalton Transactions</i> , 2020, 49, 11997-12008.	1.6	11
17	Rearrangement of two 8-membered 1,5-diaza-3,7-diphosphacyclooctane rings into 16-membered P4N4 ligand on the gold(i) template. <i>Mendeleev Communications</i> , 2020, 30, 40-42.	0.6	5
18	Water dispersible supramolecular assemblies built from luminescent hexarhenium clusters and silver(I) complex with pyridine-2-ylphospholane for sensorics. <i>Journal of Molecular Liquids</i> , 2020, 305, 112853.	2.3	3

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19	Acid-Catalyzed Rearrangements of 3-Aryloxirane-2-Carboxamides: Novel DFT Mechanistic Insights. <i>ChemistryOpen</i> , 2020, 9, 743-747.	0.9	10
20	Fast and Accurate Quantum Chemical Modeling of Infrared Spectra of Condensed-Phase Systems. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6664-6670.	1.2	18
21	Study of the structures and photophysical properties of 1,3-diaza-5-phosphacyclohexanes using density functional theory and optical spectroscopy. <i>Russian Chemical Bulletin</i> , 2020, 69, 449-457.	0.4	3
22	Principal Descriptors of Ionic Liquid Co-catalysts for the Electrochemical Reduction of CO <sub>2</sub> . <i>ACS Applied Energy Materials</i> , 2020, 3, 4690-4698.	2.5	10
23	Characterization of Conjugation Effects in the Series of Quinoxaline-2-ones by Means of Vibrational Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3865-3875.	1.1	2
24	One-Electron Reduction of Acenaphthene-1,2-Diimine Nickel(II) Complexes. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2979-2987.	1.7	7
25	IR and Raman markers of Fe(II) spin state in the spin-crossover complex of iron(II) nitrate with tris(3,5-dimethylpyrazol-1-yl)methane. <i>Journal of Physics: Conference Series</i> , 2019, 1310, 012006.	0.3	0
26	Reversible temperature-responsible emission in solutions within 293–333 K produced by dissociative behavior of multinuclear Cu(I) complexes with aminomethylphosphines. <i>Inorganica Chimica Acta</i> , 2019, 498, 119125.	1.2	3
27	Fresh Look on the Nature of Dual-Band Emission of Octahedral Copper-Iodide Clusters—Promising Ratiometric Luminescent Thermometers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25863-25870.	1.5	26
28	Theoretical study of the excited state properties of luminescent phospholes. <i>Dyes and Pigments</i> , 2019, 164, 363-371.	2.0	9
29	Zn and Co redox active coordination polymers as efficient electrocatalysts. <i>Dalton Transactions</i> , 2019, 48, 3601-3609.	1.6	41
30	To what extent are the photophysical properties of quinoxaline- and quinoxalinone-based chromophores predictable?. <i>Dyes and Pigments</i> , 2019, 170, 107580.	2.0	13
31	Intriguing Near-Infrared Solid-State Luminescence of Binuclear Silver(I) Complexes Based on Pyridylphospholane Scaffolds. <i>Inorganic Chemistry</i> , 2019, 58, 7698-7704.	1.9	20
32	2,3-(Dibenzimidazol-2-yl)quinoxalines: Unexpected Dynamical Effect on Steady-State Electronic Absorption Spectra. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5514-5523.	1.2	2
33	Delineation of the Critical Parameters of Salt Catalysts in the N-Formylation of Amines with CO <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2019, 25, 11074-11079.	1.7	24
34	Application of density functional theory and optical spectroscopy for the prediction of the photophysical properties of $\delta$ -pyridylphospholanes. <i>Russian Chemical Bulletin</i> , 2019, 68, 254-261.	0.4	3
35	Synthesis and photophysical properties of 2,3,4,5-tetraphenyl-1-n-octyl-1-monophosphole. <i>Russian Chemical Bulletin</i> , 2019, 68, 445-448.	0.4	8
36	Silica nanoparticles with dual visible–NIR luminescence affected by silica confinement of Tb(III) and Yb(III) complexes for cellular imaging application. <i>Journal of Materials Science</i> , 2019, 54, 9140-9154.	1.7	11

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37	Fast Quantum Chemical Simulations of Infrared Spectra of Organic Compounds with the B97-3c Composite Method. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3802-3808.	1.1	26
38	Synthesis and characterization of poly([Eu or Dy] 1,1-ferrocenediyl-bis( <i>trans</i> -phosphinates)). <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 459-462.	0.8	6
39	Phosphorylation of pyridoxal azomethines. Synthesis of phosphorus containing azomethines and furopyridines. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2019, 194, 120-126.	0.8	1
40	The Assembly of Unique Hexanuclear Copper(I) Complexes with Effective White Luminescence. <i>Inorganic Chemistry</i> , 2019, 58, 1048-1057.	1.9	34
41	Large nonlinear optical activity of chromophores with divinylquinoxaline conjugated $\pi$ -bridge. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 370, 58-66.	2.0	22
42	High thermally stable $\pi$ -conjugated chromophores with quinoxaline moieties in the conjugated bridge: Synthesis, DFT calculations and physical properties. <i>Dyes and Pigments</i> , 2018, 156, 175-184.	2.0	27
43	IR and UV study of reversible water-induced structural transformations of poly(manganese) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5 of Molecular Structure, 2018, 1166, 237-242.	1.8	14
44	Intricacies of Cation-Anion Combinations in Imidazolium Salt-Catalyzed Cycloaddition of CO <sub>2</sub> Into Epoxides. <i>ACS Catalysis</i> , 2018, 8, 2589-2594.	5.5	129
45	Novel amphiphilic conjugates of <i>p</i> -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. <i>New Journal of Chemistry</i> , 2018, 42, 2942-2951.	1.4	22
46	Supramolecular Organization of Solid Azobenzene Chromophore Disperse Orange 3, Its Chloroform Solutions, and PMMA-Based Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1779-1785.	1.5	13
47	Towards a frustrated Lewis pair-ionic liquid system. <i>Inorganica Chimica Acta</i> , 2018, 470, 270-274.	1.2	3
48	Synthesis, spatial and electronic structure of 1-(+)-neomenthyl-1,2-diphosphole and 1-(+)-neomenthyl-1,2,4-triphosphole tungstenpentacarbonyl complexes. <i>Journal of Organometallic Chemistry</i> , 2018, 867, 125-132.	0.8	11
49	Novel water soluble cationic Au(I) complexes with cyclic PNNP ligand as building blocks for heterometallic supramolecular assemblies with anionic hexarhenium cluster units. <i>Journal of Luminescence</i> , 2018, 196, 485-491.	1.5	16
50	Isomeric indolizine-based $\pi$ -expanded push-pull NLO-chromophores: Synthesis and comparative study. <i>Journal of Molecular Structure</i> , 2018, 1156, 74-82.	1.8	16
51	Ferrocene-Containing Sterically Hindered Phosphonium Salts. <i>Molecules</i> , 2018, 23, 2773.	1.7	6
52	Composite materials containing chromophores with 3,7-(di)vinylquinoxalinone $\pi$ -electron bridge doped into PMMA: Atomistic modeling and measurements of quadratic nonlinear optical activity. <i>Dyes and Pigments</i> , 2018, 158, 131-141.	2.0	29
53	Novel enantiopure monophospholes: synthesis, spatial and electronic structure, photophysical characteristics and conjugation effects. <i>Dalton Transactions</i> , 2018, 47, 11521-11529.	1.6	11
54	Nonlinear optical activity of push-pull indolizine-based chromophores with various acceptor moieties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 764-772.	2.0	13

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55	Chromophores Supramolecular Organization in Polymer Materials with Quadratic Nonlinear-Optical Activity: Symmetry Aspects. <i>Proceedings (mdpi)</i> , 2018, 2, 70.	0.2	0
56	Novel quinoxalinone-based push-pull chromophores with highly sensitive emission and absorption properties towards small structural modifications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21515-21527.	1.3	21
57	The first representatives of tetranuclear gold( <i>sc</i> ) complexes of P,N-containing cyclophanes. <i>Dalton Transactions</i> , 2018, 47, 7715-7720.	1.6	7
58	The role of London dispersion interactions in strong and moderate intermolecular hydrogen bonds in the crystal and in the gas phase. <i>Chemical Physics Letters</i> , 2017, 672, 124-127.	1.2	11
59	Benzimidazolylquinoxalines: novel fluorophores with tuneable sensitivity to solvent effects. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6095-6104.	1.3	11
60	Pyridyl Containing 1,5-Diaza-3,7-diphosphacyclooctanes as Bridging Ligands for Dinuclear Copper(I) Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 895-902.	0.6	16
61	One-pot synthesis of aryl-substituted 1,2,3-triphospholide anions. <i>Journal of Organometallic Chemistry</i> , 2017, 844, 1-7.	0.8	14
62	Leaching from Palladium Nanoparticles in an Ionic Liquid Leads to the Formation of Ionic Monometallic Species. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3452-3456.	2.1	5
63	Push-pull isomeric chromophores with vinyl- and divinylquinoxaline-2-one units as $\pi$ -electron bridge: Synthesis, photophysical, thermal and electro-chemical properties. <i>Dyes and Pigments</i> , 2017, 146, 82-91.	2.0	23
64	A Rhodium Nanoparticle-Lewis Acidic Ionic Liquid Catalyst for the Chemoselective Reduction of Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 292-296.	7.2	112
65	The influence of different substituents on the geometrical changes in the heterocyclic moiety of 1,2-diphospholes. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016, 191, 1646-1649.	0.8	10
66	Host-guest-binding of a luminescent dinuclear Au( <i>sc</i> ) complex based on cyclic diphosphine with organic substrates as a reason for luminescence tuneability. <i>New Journal of Chemistry</i> , 2016, 40, 9853-9861.	1.4	19
67	Reversible Water-Induced Structural and Magnetic Transformations and Selective Water Adsorption Properties of Poly(manganese 1,1'-ferrocenediyl-bis(H-phosphinate)). <i>Crystal Growth and Design</i> , 2016, 16, 5084-5090.	1.4	34
68	Thermal stability of primary and secondary phosphine oxides formed as a reaction of phosphine oxide with ketones. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016, 191, 1480-1481.	0.8	6
69	The effect of stacking arrangement on the conjugation in azochromophores revealed by combination of Raman spectroscopy and DFT calculations. <i>Chemical Physics Letters</i> , 2016, 659, 242-246.	1.2	5
70	Calorimetric and spectroscopic studies on solvation energetics for H <sub>2</sub> storage in the CO <sub>2</sub> /HCOOH system. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10764-10773.	1.3	25
71	Solvation of Palladium Clusters in an Ionic Liquid: A QM/MM Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4596-4604.	1.5	23
72	A novel acid-catalyzed rearrangement of 2-substituted-3-(2-nitrophenyl)oxiranes for the synthesis of di- and mono-oxalamides. <i>RSC Advances</i> , 2016, 6, 27885-27895.	1.7	20

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73	Synthesis of novel pyridyl containing phospholanes and their polynuclear luminescent copper( $\text{Cu}^{\text{I}}$ ) complexes. Dalton Transactions, 2016, 45, 2250-2260.	1.6	63
74	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
75	Synthesis and structure of the iron(III) tris-chelate complex based on 1,1'-ferrocenediylbis(phenylphosphinic acid). Russian Chemical Bulletin, 2015, 64, 1819-1822.	0.4	10
76	Conjugation effects and optical spectra of 1,2-diphosphole cycloadducts. Russian Chemical Bulletin, 2015, 64, 1896-1900.	0.4	10
77	First neutral dinuclear cobalt complex formed by bridging $[\text{Co}^{\text{II}}\text{O}(\text{P}(\text{H})\text{R})_2]_2$ ligands: synthesis, X-ray crystal structure and quantum-chemical study. Mendeleev Communications, 2015, 25, 27-28.	0.6	7
78	Comparative Study of Conjugational Effects in 3,4,5-Triaryl-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
79	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
80	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
81	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
82	Correlations between metal spin states and vibrational spectra of trinuclear Fe(II) complex exhibiting spin crossover. Journal of Molecular Structure, 2015, 1101, 8-13.	1.8	2
83	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
84	Conjugation in and Optical Properties of 1,2-Diphospholes and 1-Phospholes. Journal of Physical Chemistry A, 2014, 118, 12168-12177.	1.1	30
85	Synthesis and structure of ferrocenylphosphinic acids. Journal of Organometallic Chemistry, 2014, 766, 40-48.	0.8	36
86	Enhanced Conversion of Carbohydrates to the Platform Chemical 5-Hydroxymethylfurfural Using Designer Ionic Liquids. ChemSusChem, 2014, 7, 1647-1654.	3.6	65
87	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
88	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
89	Application of Time-Dependent Density Functional Theory and Optical Spectroscopy toward the Rational Design of Novel 3,4,5-Triaryl-1,2-diphospholes. Journal of Physical Chemistry A, 2013, 117, 6827-6834.	1.1	24
90	Efficient synthesis and structure peculiarity of macrocycles with bi-indolizinyloquinoline moieties. Tetrahedron, 2013, 69, 10675-10687.	1.0	15

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91	How Strong Is Hydrogen Bonding in Ionic Liquids? Combined X-ray Crystallographic, Infrared/Raman Spectroscopic, and Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9094-9105.	1.2	130
92	Bipyridine and phenanthroline IR-spectral bands as indicators of metal spin state in hexacoordinated complexes of Fe( $\text{II}$ ), Ni( $\text{II}$ ) and Co( $\text{II}$ ). <i>Dalton Transactions</i> , 2013, 42, 1787-1797.	1.6	82
93	Synthesis, X-ray crystal structure and quantum-chemical study of new dinuclear cobalt complex $\{\text{Co}_2[\text{mmm-O}2\text{P}(\text{H})\text{Mes}]_2(\text{bpy})_4\}\text{Br}_2$ . <i>Mendeleev Communications</i> , 2013, 23, 135-136.	0.6	6
94	A remarkable anion effect on palladium nanoparticle formation and stabilization in hydroxyl-functionalized ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6026.	1.3	59
95	A cobalt(II) acetate complex with 1-(3,5-di-tert-butyl-4-hydroxybenzyl)-1H-indole-2,3-dione 3-thiosemicarbazone: synthesis and structure. <i>Russian Chemical Bulletin</i> , 2012, 61, 1909-1916.	0.4	0
96	IR and Raman spectra, hydrogen bonds, and conformations of N-(2-hydroxyethyl)-4,6-dimethyl-2-oxo-1,2-dihydropyrimidine (drug Xymedone). <i>Russian Chemical Bulletin</i> , 2012, 61, 1199-1206.	0.4	9
97	Synthesis and Stereoselective Interconversion of Chiral $\beta$ , $\beta'$ -diphosphacycloheptanes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1857-1866.	1.0	21
98	Rationalization of Solvation and Stabilization of Palladium Nanoparticles in Imidazolium-Based Ionic Liquids by DFT and Vibrational Spectroscopy. <i>ChemPhysChem</i> , 2012, 13, 1781-1790.	1.0	27
99	Complex Formation of Metal Ions at the Interface of Tb(III)-Doped Silica Nanoparticles as a Basis of Substrate-Responsive Tb(III)-Centered Luminescence. <i>ChemPhysChem</i> , 2012, 13, 3357-3364.	1.0	35
100	Ab Initio and DFT Predictions of Infrared Intensities and Raman Activities. <i>Journal of Physical Chemistry A</i> , 2011, 115, 63-69.	1.1	132
101	Mass Spectrometric and Theoretical Study of Polyiodides: The Connection between Solid State, Solution, and Gas Phases. <i>Inorganic Chemistry</i> , 2011, 50, 9728-9733.	1.9	33
102	The Molecular Design of $\beta$ -Type Phosphoranes, Based on the Reaction of P(III)-Cyclic Derivatives and Unsaturated Activated Compounds. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011, 186, 652-656.	0.8	15
103	Spectral study of the molecular structure of some 2-methylthio-6-methyl-4-alkyl- and alkylaminopyrimidines. <i>Russian Journal of General Chemistry</i> , 2011, 81, 2164-2171.	0.3	1
104	Synthesis, IR/Raman, and quantum-chemical structural analysis of new octathiotetraphosphetane ammonium salts. <i>Heteroatom Chemistry</i> , 2011, 22, 24-30.	0.4	10
105	IR and NMR spectra, intramolecular hydrogen bonding and conformations of para-tert-butyl-aminothiacalix[4]arene in solid state and chloroform solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 872-879.	2.0	2
106	DFT study of substitution effect on the geometry, IR spectra, spin state and energetic stability of the ferrocenes and their pentaphospholyl analogues. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 2586-2595.	0.8	49
107	High-temperature spin-crossover in coordination compounds of iron(II) with tris(pyrazol-1-yl)methane. <i>Inorganica Chimica Acta</i> , 2010, 363, 4059-4064.	1.2	22
108	Variable temperature IR spectroscopy and quantum chemistry as the tool for diagnostics of metal spin state. <i>Chemical Physics Letters</i> , 2010, 495, 50-54.	1.2	8

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109	Guest-induced conformation shift of <i>p</i> -sulphonatocalix[4]arene in the solid state and solution manipulated by [Zn(dipy) <sub>3</sub> ] <sup>2+</sup> . <i>Supramolecular Chemistry</i> , 2010, 22, 203-211.	1.5	2
110	A simple physical model for the simultaneous rationalisation of melting points and heat capacities of ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13780.	1.3	15
111	Phosphonium ionic liquids based on bulky phosphines: synthesis, structure and properties. <i>Dalton Transactions</i> , 2010, 39, 5564.	1.6	39
112	Structural Studies of the Ionic Liquid 1-Ethyl-3-methylimidazolium Tetrafluoroborate in Dichloromethane Using a Combined DFT-NMR Spectroscopic Approach. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5046-5051.	1.2	55
113	Quantum chemical investigation of the structures of ionic liquids based on 1-ethyl-3-methylimidazolium halides: IR spectra and hydrogen bonds. <i>Russian Chemical Bulletin</i> , 2009, 58, 1812-1816.	0.4	7
114	IR and NMR spectra, intramolecular hydrogen bonding and conformations of mercaptothiacalix[4]arene molecules and their para-tert-butyl-derivative. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2008, 60, 281-291.	1.6	7
115	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)-tetrabenzenacalix[4]arene with an unusual conical-like conformation. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2008, 60, 321-328.	1.6	9
116	Comparative studies of geometric and quasielastic characteristics of PP and SS bonds. <i>Dalton Transactions</i> , 2008, , 1465.	1.6	6
117	Application of Density Functional Theory and Vibrational Spectroscopy Toward the Rational Design of Ionic Liquids. <i>Journal of Physical Chemistry A</i> , 2007, 111, 352-370.	1.1	238
118	Revisiting Ether-Derivatized Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10095-10108.	1.2	121
119	Germylene complexes of tungsten pentacarbonyls W(CO) <sub>5</sub> GeCl <sub>2</sub> and W(CO) <sub>5</sub> GeW(CO) <sub>5</sub> : Electrochemical synthesis and quantum-chemical computations. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 4067-4072.	0.8	4
120	An experimental and quantum-chemical study of the Raman spectra and rotational isomerism of thiophosphites (RS) <sub>n</sub> PCl <sub>3</sub> (R = Me, Et; n = 1, 2). <i>Optics and Spectroscopy (English Translation of Tj ETQq0 00.2gBT/Overlock 10</i>	0.2	0
121	Conformational analysis of mono- and bis(dimethoxyphosphoryl)benzenes. <i>Russian Journal of General Chemistry</i> , 2006, 76, 453-460.	0.3	0
122	Synthesis, structure, and transition metal complexes of amphiphilic 1,5-diaza-3,7-diphosphacyclooctanes. <i>Heteroatom Chemistry</i> , 2006, 17, 499-513.	0.4	36
123	Binding energies, vibrations and structural characteristics of small polyphosphorus molecules from quantum chemical computations. <i>Dalton Transactions</i> , 2005, , 1701.	1.6	12
124	Vibrational spectra, co-operative intramolecular hydrogen bonding and conformations of calix[4]arene and thiacalix[4]arene molecules and their para-tert-butyl derivatives. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 2558.	1.5	41
125	Energetics of intramolecular hydrogen bonds and conformations of $\hat{A}$ -diphenylphosphoryl- and $\hat{A}$ -diphenylthiophosphoryl-substituted aliphatic alcohol molecules. <i>Russian Chemical Bulletin</i> , 2004, 53, 55-59.	0.4	8
126	Molecular Structure, Vibrational Spectra, and Hydrogen Bonding of the Ionic Liquid 1-Ethyl-3-methyl-1H-imidazolium Tetrafluoroborate. <i>Helvetica Chimica Acta</i> , 2004, 87, 2556-2565.	1.0	197



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128	Scaled quantum mechanical computations of vibrational spectra of organoelement molecules, containing the atoms P, S, and Cl. <i>Chemical Physics Letters</i> , 2003, 377, 658-662.	1.2	53
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164	Vibrational spectra and rotational isomerism in Cl <sub>2</sub> PXCH <sub>3</sub> (X=O, S). Journal of Applied Spectroscopy, 1982, 37, 1029-1033.	0.3	1
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