

Alexander B Rozhenko

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86

papers

949

citations

17

h-index

27

g-index

93

ext. papers

1,046

ext. citations

3.2

avg, IF

3.8

L-index

#	Paper	IF	Citations
86	Efficient asymmetric synthesis of trifluoromethylated β -aminophosphonates and their incorporation into dipeptides. <i>Chemical Communications</i> , 2012 , 48, 11519-21	5.8	73
85	Reversible transformation of a stable monomeric silicon(II) compound into a stable disilene by phase transfer: experimental and theoretical studies of the system $\{[(\text{Me}_3\text{Si})_2\text{N}](\text{Me}_5\text{C}_5\text{Si})\}_n$ with $n = 1, 2$. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12137-43	16.4	56
84	Photodissociation of methyl iodide embedded in a host-guest complex: a full dimensional (189D) quantum dynamics study of $\text{CH}_3\text{I}@\text{resorc}[4]\text{arene}$. <i>Journal of Chemical Physics</i> , 2011 , 135, 184102	3.9	44
83	On the Transition Metal Complexation (Fischer-Type) of Phosphanylcarbenes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10115-10120	16.4	44
82	Stable non-push-pull phosphanylcarbenes: NMR spectroscopic characterization of a methylcarbene. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2835-7	16.4	43
81	On the electronic structures of the 1,3-diboracyclobutane-1,3-diyls and their valence isomers with a B ₂ E ₂ skeleton (E=N, P, As). <i>Chemistry - A European Journal</i> , 2003 , 9, 3611-7	4.8	43
80	Cyclization of C-phosphorylated (P(III)) arylformamidines to 3H-1,3-benzazaphospholes. <i>Tetrahedron</i> , 2011 , 67, 7748-7758	2.4	42
79	Encapsulated guest molecules in the dimer of octahydroxypyridine[4]arene. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9669-74	16.4	40
78	(Phosphino)(aryl)carbenes: effect of aryl substituents on their stabilization mode. <i>Journal of the American Chemical Society</i> , 2003 , 125, 124-30	16.4	36
77	Asymmetric Synthesis of Organoelement Analogues of Natural Products; Part 12: General Method for the Asymmetric Synthesis of Fluorine-Containing Phenylalanines and β -Methyl(phenyl)alanines via Alkylation of the Chiral Nickel(II) Schiff β Base Complexes of Glycine and Alanine. <i>Synthesis</i> , 1993 , 1993, 117-120	2.9	35
76	Conformational features of calix[4]arenes with alkali metal cations: A quantum chemical investigation with density functional theory. <i>Computational and Theoretical Chemistry</i> , 2005 , 732, 7-20		24
75	Asymmetric induction in thia-Diels-Alder reactions of chiral polyfluoroalkylthionocarboxylates. <i>Journal of Fluorine Chemistry</i> , 2010 , 131, 172-183	2.1	23
74	Donor β ceptor interactions with electrophilic terminal phosphinidene complexes. <i>Journal of Organometallic Chemistry</i> , 2002 , 643-644, 223-230	2.3	23
73	Cyclochiral resorcin[4]arenes as effective enantioselectors in the gas phase. <i>Journal of Mass Spectrometry</i> , 2012 , 47, 72-8	2.2	20
72	. <i>European Journal of Inorganic Chemistry</i> , 2000 , 2000, 375-381	2.3	20
71	On the ligand properties of the P- versus the N-heterocyclic carbene for a Grubbs catalyst in olefin metathesis. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 6079-6088	2.3	19
70	Chemical Profiling, Antioxidant, and Antimicrobial Activity against Drug-Resistant Microbes of Essential Oil from <i>Withania frutescens</i> L.. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5168	2.6	19

69	Calixarenes as hosts for ammonium cations: a quantum chemical study and mass-spectrometric investigations. <i>Chemistry - A European Journal</i> , 2006 , 12, 8995-9000	4.8	17
68	A new procedure for the synthesis of alkyl perfluoroalkanedithiocarboxylates. <i>Journal of Fluorine Chemistry</i> , 1991 , 55, 329-333	2.1	15
67	Synthesis of 5-(Fluoroalkyl)isoxazole Building Blocks by Regioselective Reactions of Functionalized Halogenoximes. <i>Journal of Organic Chemistry</i> , 2019 , 84, 15877-15899	4.2	14
66	Geometric and Electronic Structure of Carbocone, (C ₅ R ₅) ₂ C, versus Silicocene, (C ₅ R ₅) ₂ Si (R = H, Me) <i>Organometallics</i> , 1999 , 18, 2099-2106	3.8	13
65	Stable N-Phosphanyl Acyclic Diaminocarbenes. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 3259-3270	3.2	12
64	Multinuclear NMR spectroscopy and semi-empirical MNDO-PM3 quantum chemical investigations of the compounds C ₆ H ₅ XY (X=S, SO, SO ₂ ; Y=CF ₃ , CH ₃). <i>Journal of Fluorine Chemistry</i> , 1994 , 69, 41-49	2.1	12
63	Reduction of 4-fluoro-5-(1,1,2,2-tetrafluoroethyl)-3H-1,2-dithiole-3-thione with sodium sulfide: Synthesis of fluoro-containing sulfur-rich heterocycles. <i>Journal of Fluorine Chemistry</i> , 2006 , 127, 774-779	2.1	11
62	A kinetic study of guest displacement reactions on a host-guest complex with a photoswitchable calixarene. <i>Journal of Mass Spectrometry</i> , 2008 , 43, 1553-64	2.2	10
61	Synthesis and Some Chemical Properties of a 1,2,3,4-Thiaphosphirane. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 1762-1767	2.3	9
60	Photochromic resorcin[4]arenes: stabilization of intramolecular anthracene dimers in solution. <i>Photochemical and Photobiological Sciences</i> , 2009 , 8, 1187-94	4.2	9
59	Stable gem-trifluoromethyl anionic complexes based on 1,3,5-tris(sulfonyl)benzene derivatives and their transformations. <i>Journal of Fluorine Chemistry</i> , 2010 , 131, 1344-1352	2.1	9
58	Complexation of dichloro(ethylenediamine)palladium(II) with 1-hydroxyethylidene-1,1-diphosphonic acid. <i>Inorganica Chimica Acta</i> , 2018 , 474, 96-103	2.7	8
57	Simple Route to Adducts of (Amino)(aryl)carbene with Phosphorus Pentafluoride. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 4154-4158	2.3	8
56	Dissociation of the P=C Ylidic Bond. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 254-258	2.3	8
55	On structure and stability of pyrimidine ylidenes and their homologues. <i>Computational and Theoretical Chemistry</i> , 2017 , 1103, 83-91	2	7
54	Specificity of ¹³ C NMR Shielding Calculations in Thiocarbonyl Compounds. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2009 , 184, 1386-1405	1	7
53	On the Bonding Properties of Diphosphanylmethanide Complexes with the Group-14 Elements Silicon, Germanium, Tin, and Lead in Their Divalent Oxidation States. <i>European Journal of Inorganic Chemistry</i> , 1999 , 1999, 1155-1159	2.3	7
52	Zwitterionic Phosphoranides as Intermediates in the Reaction of Phosphorus Tribromide with N,N-Dimethyl-N'-arylformamidines. <i>Heteroatom Chemistry</i> , 2016 , 27, 12-22	1.2	7

51	Stereoselective synthesis of six stereoisomers of inherently chiral methoxy-propoxy-butoxy-methoxycarbonylmethoxy-tert-butylcalix[4]arene. <i>Tetrahedron Letters</i> , 2015 , 56, 4788-4791	2	6
50	Twisting and Turning the Sulfonamide Bond: A Synthetic, Quantum Chemical, and Crystallographic Study. <i>Journal of Organic Chemistry</i> , 2020 , 85, 5288-5299	4.2	6
49	1-Oxo-1-fluoro-1,2,4-benzothiadiazines – a new type of cyclic sulfonimidoyl fluorides. <i>Journal of Fluorine Chemistry</i> , 2014 , 160, 16-19	2.1	6
48	Anion-π Interactions in adducts of anionic guests with octahydroxy-pyridine[4]arene: theoretical and experimental elucidation. <i>New Journal of Chemistry</i> , 2013 , 37, 356-365	3.6	6
47	Synthesis of 2-polyfluoroalkyl-2,3-dihydro-1,3,4-thiadiazoles via regioselective [3+2] cycloaddition of nitrile imines to polyfluoroalkanethioamides. <i>Chemistry of Heterocyclic Compounds</i> , 2017 , 53, 1268-1276	1.4	6
46	Perfluorophenylcalix[4]arenes: prospective hosts for nucleophilic guests. Synthesis, structure and quantum chemical calculations. <i>Tetrahedron Letters</i> , 2013 , 54, 3496-3499	2	6
45	Synthesis of 1,3-Diphospha-2,3-dihydro-1H-phenalenes. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 1552-1558	2.3	6
44	Calix[4]arenequinazolinones. Synthesis and structure. <i>Tetrahedron</i> , 2007 , 63, 11451-11457	2.4	6
43	Reactions of cycloalkanecarboxylic acids with SF ₄ . II. Fluorination of gem-dichlorocyclopropanecarboxylic acids with SF ₄ . <i>Journal of Fluorine Chemistry</i> , 1994 , 69, 231-236	2.1	6
42	Synthesis and enantioselective recognition properties of stereoisomers of inherently chiral propyloxy-octyloxy-calix[4]arene acetic acids. <i>Tetrahedron</i> , 2021 , 80, 131894	2.4	6
41	Synthesis of a new photoresponsive molecular carcerand. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 331, 165-174	4.7	5
40	1,2-Diphosphetes with Unusual Structures – A Quantum Chemical Investigation of Bonding Properties?. <i>European Journal of Inorganic Chemistry</i> , 1998 , 1998, 951-955	2.3	5
39	Kemp's triacid attached to octa-O-methyl resorc[4]arenes: conformations in solution and comparative binding studies with various 2-amino pyridines. <i>Tetrahedron</i> , 2008 , 64, 3813-3825	2.4	5
38	Enantioselective Recognition of Amino Acids by Enantiomerically Pure Calix[4]arene Carboxylic Acid or Their Diastereomerically Pure N-(1-Phenyl)ethyl Amides. <i>Macrocyclics</i> , 2013 , 6, 227-233	2.2	5
37	Diastereoselective reaction of 1,3-dihydroxy calixarene with acylisocyanates: new and easy approach for preparing inherently chiral calyx[4]arenes. <i>Structural Chemistry</i> , 2016 , 27, 261-272	1.8	4
36	A Convenient Approach to N-(Di-tert-butylphosphanyl)- and N-(Di-tert-butylphosphoroselenoyl)formamidinium Salts: Carbene Precursors. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 1192-1203	2.3	4
35	Island Homoaromaticity in the W-Shaped 2,4-Diphospha-3-arsapentadienide Anion and Related Compounds – Theoretical and Experimental Investigations. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 2502-2507	2.3	4
34	Dialkylamido Sulfoxylic Acid Fluorides, I: Synthesis and Reactions with Olefins. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2009 , 184, 1149-1160	1	4

33	Palladium(II) complexes with 1-hydroxyethylidene-1,1-diphosphonic acid. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2008 , 34, 493-498	1.6	4
32	Reactions of chlorophosphenium salts with 1,1,3,3-tetraalkyl-2-trimethylsilylguanidines. Molecular structures of new heterocyclic systems: [R ₂ NPN{C(NR ₂) ₂ }] ₂ ²⁺ and [R ₂ NP{N[C(NR ₂) ₂]}] ₂ AlCl ₃ . <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 963		4
31	On the stability of perfluoroalkyl-substituted singlet carbenes: a coupled-cluster quantum chemical study. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 1479-88	2.8	3
30	(β,β)-Phosphoranes versus (β,β)-thiaphosphiranes: quantum chemical investigation of products of phosphalkene sulfurization. <i>Journal of Computational Chemistry</i> , 2012 , 33, 1023-8	3.5	3
29	Density Functional Theory Calculations of Enzyme-Inhibitor Interactions in Medicinal Chemistry and Drug Design. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2014 , 207-240	0.7	3
28	Intermediate carbene formation in the reaction of thioamides with phosphorus (III) derivatives: Quantum chemical investigation. <i>International Journal of Quantum Chemistry</i> , 2014 , 114, 241-248	2.1	3
27	Interaction of K ₂ PdCl ₄ with aminoalkyldiphosphonic acids. <i>Russian Journal of Inorganic Chemistry</i> , 2011 , 56, 1494-1500	1.5	3
26	Conjugation in Phosphabutadienes: Ab initio Investigation and NMR Spectral Manifestation: II. Magnetic Shielding in Iminophosphines and Heterobutadienes Derived from Them. <i>Russian Journal of General Chemistry</i> , 2004 , 74, 500-514	0.7	3
25	On the d ₆ -Transition Metal Complex Formation of Electron-Rich Methylene phosphanes, a Quantum Chemical Investigation. <i>European Journal of Inorganic Chemistry</i> , 2001 , 2001, 2891	2.3	3
24	Conjugation in phosphabutadienes: ab initio investigation and NMR spectral manifestation. <i>Computational and Theoretical Chemistry</i> , 2000 , 498, 1-20		3
23	β-Ketophosphonates in the Synthesis of β-Aminophosphonates. <i>Current Green Chemistry</i> , 2020 , 7, 226-238	1.3	3
22	Synthesis of 4-Hetarylisoxazoles from Amino Acid-Derived Halogenoximes and Push-Pull Enamines. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 5585-5595	3.2	3
21	1,2-migration in N-phosphano functionalized N-heterocyclic carbenes. <i>Journal of Computational Chemistry</i> , 2015 , 36, 42-8	3.5	2
20	Synthesis, molecular docking studies, and larvicidal activity evaluation of new fluorinated neonicotinoids against <i>Anopheles darlingi</i> larvae. <i>PLoS ONE</i> , 2020 , 15, e0227811	3.7	2
19	Molecular and electronic structure of 1,3,2-diazaphosphinine derivatives. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016 , 191, 399-404	1	2
18	On the reaction of diaminocarbenes with aroylimines. <i>Journal of Organic Chemistry</i> , 2015 , 80, 1387-94	4.2	2
17	Investigation of N- and C-Phosphanylation of [1,2,4]Triazolo[4,3-a]pyridines. <i>Heteroatom Chemistry</i> , 2015 , 26, 277-289	1.2	2
16	Electrophilic intramolecular cyclization of functional derivatives of unsaturated compounds: VI. Reaction of 2-(cyclohex-2-en-1-yl)acetanilides with arylsulfanyl chlorides. Structural and quantum chemical study of isomerization of 2-(2-arylsulfanyl-3-chlorocyclohexyl)acetanilides. <i>Russian Journal of Organic Chemistry</i> , 2014 , 50, 1387-1400	0.7	2

15	2,3-Dihydro-1H-naphtho[1,8-de][1,3]diphosphinines. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011 , 186, 841-844	1	2
14	Compounds Featuring the Structural Fragment P-C-P. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011 , 186, 621-625	1	2
13	Different ways of coordination for aminoalkyldiphosphonic acids in palladium(II) complexes. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2011 , 37, 941-948	1.6	2
12	Halogen migration vs. hydrogen halogenide elimination in reactions of 1-chloro-2,2,2-trifluoroethansulfonyl chloride and 1,2,2,2-tetrafluoroethansulfonyl fluoride with amines: theoretical and experimental investigation. <i>Journal of Fluorine Chemistry</i> , 2010 , 131, 254-260	2.1	2
11	Cu-Catalyzed Pyridine Synthesis via Oxidative Annulation of Cyclic Ketones with Propargylamine. <i>Journal of Organic Chemistry</i> , 2021 , 86, 7315-7325	4.2	2
10	Structure of palladium(II) complexes with nitrilotrimethylenephosphonic acid in aqueous solutions according to ³¹ P and ¹ H NMR data. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2009 , 35, 674-680	1.6	1
9	An Unusual Intramolecular P-P Cyclization of The P-C-P System in Phosphaphenalenenes. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2011 , 186, 758-760	1	1
8	Enhanced preparation of aryl and heteryl sulfur pentafluorides using mercury (II) oxide - hydrogen fluoride media as a fluorinating reagent. <i>Journal of Fluorine Chemistry</i> , 2020 , 239, 109635	2.1	1
7	Transformation Routes of PV- and PIII-N-Substituted Acyclic Diaminocarbenes. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1621-1632	2.3	1
6	Formation of 10/12/14-Membered Rings is Favored over 5/6/7-Membered. An Unexpected Result from Oxazole Chemistry. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 4962-4967	3.2	0
5	On the reaction of 1,1-dichloropolyfluoroalkylsulfenyl chlorides with lithium hexamethyldisilylamide. <i>Journal of Fluorine Chemistry</i> , 1994 , 66, 7-8	2.1	0
4	Interaction between 2-pyrrolidine-1-hydroxymethane-1,1-diphosphonic acid and palladium(II) in aqueous solutions. <i>Inorganica Chimica Acta</i> , 2020 , 505, 119503	2.7	
3	Dichlorophosphoranides Stabilized by Formamidinium Substituents. <i>Heteroatom Chemistry</i> , 2020 , 2020, 1-6	1.2	
2	Molecular and electronic structure of triethylammonium salt of N-[(1-acetyl-2-oxopropyl)(phenyl)- λ -sulfanylidene]ethanesulfonamide. <i>Journal of Sulfur Chemistry</i> , 2013 , 34, 421-431	2.3	
1	Structure of Low-Coordinated Phosphorus (III) Compounds Including Phosphorus-Nitrogen Multiple Bond: ¹³ C, ¹⁵ N and ³¹ P NMR Investigation. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996 , 111, 18-18	1	