

Nikolai V Zyk

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82
papers

876
citations

17
h-index

25
g-index

89
ext. papers

977
ext. citations

2.5
avg, IF

3.71
L-index

#	Paper	IF	Citations
82	[3+2]-Cycloaddition of azomethine ylides to 5-methylidene-3-aryl-2-halocogen-imidazolones: access to dispiro indolinone-pyrrolidine-imidazolones.. <i>Royal Society Open Science</i> , 2022 , 9, 211967	3.3	2
81	Ditopic pyridyl-benzothiazole [pyridylmethylene-2-thiohydantoin conjugates: synthesis and study in complexation with CuCl ₂ . <i>Polyhedron</i> , 2022 , 115838	2.7	0
80	Dispirooxindoles Based on 2-Selenoxo-Imidazolidin-4-Ones: Synthesis, Cytotoxicity and ROS Generation Ability. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
79	Design and synthesis of novel terpyridine-based ligands with one and two terminal aurophilic moieties and their Rh(III) and Ru(II) complexes for the adsorption on metal surfaces. <i>Polyhedron</i> , 2021 , 200, 115149	2.7	2
78	Alternative mechanism of action of the DNP Pt prodrug: intracellular cisplatin release and the mitochondria-mediated apoptotic pathway. <i>Dalton Transactions</i> , 2021 , 50, 7922-7927	4.3	1
77	Unusual complexation of 1-phenylthiocarbamoyl-3-(pyridin-2-yl)pyrazoline with copper(ii) chloride. <i>Mendeleev Communications</i> , 2020 , 30, 244-245	1.9	1
76	Syntheses of terpyridine-pyridylbenzothiazole linked ditopic ligands and their copper(II) complexes. <i>Polyhedron</i> , 2020 , 179, 114403	2.7	1
75	Cellular uptake of N-acetyl-d-galactosamine-, N-acetyl-d-glucosamine- and d-mannose-containing fluorescent glycoconjugates investigated by liver intravital microscopy. <i>Carbohydrate Research</i> , 2020 , 489, 107928	2.9	
74	Synthesis of 1,3-diaryl-spiro[azetidine-2,3'-indoline]-2',4-diones the Staudinger reaction: - or -diastereoselectivity with different addition modes.. <i>RSC Advances</i> , 2020 , 10, 14122-14133	3.7	5
73	Synthesis and application of haloisoxazoles. <i>Chemistry of Heterocyclic Compounds</i> , 2020 , 56, 1523-1534	1.4	4
72	Synthesis and cytotoxicity of oxindoles dispiro derivatives with thiohydantoin and adamantane fragments. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2020 , 195, 544-555	1	7
71	Three types of copper derivatives formed by CuCl ₂ /H ₂ O interaction with ()-3-aryl-2-(methylthio)-5-(pyridine-2-ylmethylene)-3,5-dihydro-4-imidazol-4-ones. <i>Dalton Transactions</i> , 2020 , 49, 14528-14535	4.3	2
70	Diastereoselective heterocyclization of geminal bromo-fluoro arylcyclopropanes by nitrosonium tetrafluoroborate: Access to 4-fluorinated isoxazolines and isoxazoles. <i>Tetrahedron</i> , 2019 , 75, 130666	2.4	3
69	Nitrosylsulfuric acid in the synthesis of 5-chloroisoxazoles from 1,1-dichlorocyclopropanes. <i>Mendeleev Communications</i> , 2019 , 29, 419-420	1.9	3
68	Access to 5-fluoroisoxazoles via the nitrosation of geminal bromo-fluoro arylcyclopropanes. <i>Tetrahedron</i> , 2019 , 75, 2861-2865	2.4	4
67	Binuclear copper complexes with CuI/CuI and Cu ⁺ 1.5Cu ⁺ 1.5 core structures formed in the reactions of 3-(2-methylbutyl)-5-pyridylmethylene-2-thiohydantoin with copper(II) acetylacetonate and copper(II) chloride. <i>Inorganic Chemistry Communication</i> , 2019 , 99, 31-35	3.1	3
66	Synthesis of 3-(pyridine-2-yl)-4,5-dihydro-1H-pyrazole-1-thiocarboxamides and their copper(II) complexes. <i>Arabian Journal of Chemistry</i> , 2019 , 12, 1050-1060	5.9	1

65	Synthesis, characterization, and cytotoxicity of binuclear copper(II) complexes with tetradentate nitrogen-containing ligands bis-5-(2-pyridylmethylidene)-3,5-dihydro-4H-imidazol-4-ones. <i>Polyhedron</i> , 2018 , 148, 129-137	2.7	9
64	Modern Trends of Organic Chemistry in Russian Universities. <i>Russian Journal of Organic Chemistry</i> , 2018 , 54, 157-371	0.7	62
63	A convenient synthesis of copper(II) bis[5-(pyridin-2-yl-methylidene)-2-thiohydantoin] complexes. <i>Mendeleev Communications</i> , 2018 , 28, 524-526	1.9	3
62	New copper(II) thiohydantoin complexes: Synthesis, characterization, and assessment of their interaction with bovine serum albumin and DNA. <i>Journal of Inorganic Biochemistry</i> , 2017 , 175, 190-197	4.2	18
61	Synthesis, characterisation, cytotoxicity and antibacterial activity of ruthenium(II) and rhodium(III) complexes with sulfur-containing terpyridines. <i>Polyhedron</i> , 2016 , 107, 27-37	2.7	9
60	Synthesis of 5-fluoro- and 5-bromoalkylisoxazoles via nitrosation of 1,1-dihalocyclopropanes with sulfur trioxide activated nitrosyl chloride. <i>Journal of Fluorine Chemistry</i> , 2016 , 185, 201-205	2.1	7
59	The first tris(imidazolylbenzothiazole) copper(II) complex. <i>Mendeleev Communications</i> , 2015 , 25, 148-149	1.9	5
58	Nitrosation of 2-aryl-1,1-dibromocyclopropanes: synthesis of 3-aryl-5-bromoisoxazoles. <i>Tetrahedron Letters</i> , 2015 , 56, 6577-6579	2	10
57	Enzyme-functionalized gold-coated magnetite nanoparticles as novel hybrid nanomaterials: synthesis, purification and control of enzyme function by low-frequency magnetic field. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 125, 104-9	6	23
56	Mononuclear ruthenium(II) and rhodium(III) complexes with S-[4-(2,2,6,2?-terpyridin-4?-yl)phenoxy]butyl ethanethioate and 4?-[4-(1,2-dithiolane-3-yl)butylcarboxy]phenyl]-2,2?:6?,2?-terpyridine: Synthesis, electrochemistry, antibacterial activity and catalytical application. <i>Polyhedron</i> , 2015 , 85, 800-808	2.7	16
55	Conversion of 2-thiohydantoin and their derivatives to the corresponding hydantoin in the processes of complexation reactions with copper(II) chloride dihydrate. <i>Polyhedron</i> , 2014 , 76, 45-50	2.7	13
54	Copper(II) complex with (4Z,4Z)-1,1-[disulfanediy]bis(ethane-2,1-diyl)]-bis[2-methylthio-4-(pyridin-2-ylmethylidene)-1H-imidazol-5(4H)-one] onto a gold electrode surface as a catalyst of electrochemical reduction of nitrite in water solution. <i>Mendeleev Communications</i> , 2014 , 24, 27-28	1.9	9
53	Synthesis, X-ray crystallography and electrochemistry of three novel copper complexes with imidazole-containing hydantoin and thiohydantoin. <i>Polyhedron</i> , 2013 , 63, 15-20	2.7	13
52	Coordination Compounds of S- and Se-Containing Organic Ligands as Catalysts of Oxidation Reaction Under N ₂ O Action. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2013 , 188, 377-383 ¹		6
51	Novel copper(II) and cobalt(II) complexes with selenium substituted imidazolyl imines. The molecular and crystal structure of [N-(2-(phenylseleno)ethyl)-N-(imidazol-2-ylmethylene)amine]copper(II) dichloride. <i>Polyhedron</i> , 2013 , 50, 425-433	2.7	2
50	Regiospecificity of the nitrosation of di(gem-dichlorocyclopropanes) obtained from butadiene and isoprene. <i>Tetrahedron Letters</i> , 2013 , 54, 1845-1848	2	5
49	CoII complex of N-[2-(phenylseleno)cyclohexyl]-N-(pyridin-2-ylmethylene) amine: Synthesis, electrochemistry and catalysis of triphenylphosphine and norbornene oxidation by nitrous oxide. <i>Mendeleev Communications</i> , 2012 , 22, 70-72	1.9	17
48	Synthesis and biological testing of conformationally restricted serotonin analogues with bridgehead moieties. <i>Mendeleev Communications</i> , 2012 , 22, 75-77	1.9	6

47	Gold nanoparticles modified with coordination compounds of metals: synthesis and application. <i>Russian Chemical Reviews</i> , 2012 , 81, 65-90	6.8	28
46	New system for nitrosation of alkyl-substituted gem-dichlorocyclopropanes. <i>Mendeleev Communications</i> , 2011 , 21, 188-189	1.9	7
45	Copper(ii) coordination compounds as building blocks for the formation of gold nanoparticle dimers. <i>Mendeleev Communications</i> , 2011 , 21, 129-131	1.9	5
44	New separation materials based on gold nanoparticles. <i>Journal of Manufacturing Technology Management</i> , 2010 , 21, 950-955	7.1	6
43	Synthesis and characterization of terpyridine-type ligand-protected gold-coated Fe ₃ O ₄ nanoparticles. <i>Mendeleev Communications</i> , 2010 , 20, 158-160	1.9	28
42	New self-assembled monolayer coated cantilever for histidine-tag protein immobilization. <i>Mendeleev Communications</i> , 2010 , 20, 329-331	1.9	4
41	Unexpected mode of reactivity in nitrosation of cis-1,1-dichloro-2,3-diphenylcyclopropane with NOCl ₂ SO ₃ . <i>Mendeleev Communications</i> , 2009 , 19, 12-13	1.9	5
40	Oxidation of triphenylphosphine and norbornene by nitrous oxide in the presence of CoIIICl ₂ [L = 3-phenyl-5-(2-pyridylmethylidene)-2-thiohydantoin]: the first example of CoII-catalyzed alkene oxidation by N ₂ O. <i>Mendeleev Communications</i> , 2009 , 19, 69-71	1.9	19
39	First example of the ring-opening transformation of thiazolidines to iminothiols on gold surface. <i>Mendeleev Communications</i> , 2009 , 19, 92-93	1.9	0
38	Synthesis of indole derivatives fused with bicyclo[3.2.1]octane framework. <i>Mendeleev Communications</i> , 2009 , 19, 10-11	1.9	5
37	Chiral Ligands to Support Self-Assembly of [LPdCl] ₃ Trimers via a Set of Secondary Interactions. <i>Organometallics</i> , 2009 , 28, 1027-1031	3.8	17
36	Chemistry of cross-conjugated dienones. <i>Russian Chemical Reviews</i> , 2008 , 77, 661-681	6.8	30
35	Design, synthesis and bioactivity of simplified taxol analogues on the basis of bicyclo[3.3.1]nonane derivatives. <i>Mendeleev Communications</i> , 2008 , 18, 183-185	1.9	22
34	An NMR study of quaternary ammonium salts of 5,7-dimethyl-1,3-diazaadamantan-6-one. <i>Russian Chemical Bulletin</i> , 2008 , 57, 2207-2209	1.7	3
33	First organic-inorganic hybrid material based on AgNO ₃ and 3-pyridine containing 2-thiohydantoin. <i>Mendeleev Communications</i> , 2007 , 17, 77-79	1.9	4
32	Crystal structure of the tritylated product of 3-hydroxymethylbicyclo[3.3.1]nonan-2-on-7-ol ethylene acetal cyclization. <i>Mendeleev Communications</i> , 2007 , 17, 332-334	1.9	1
31	The preparation, crystal structure and electrochemistry of (5Z,5'Z)-2,2'-(alkane-1,4-diylsulfanyldiyl)bis(5-(3-pyridylmethylene)-3,5-dihydro-4H-imidazol-4-ones) and their complexes with cobalt(II) chloride. <i>Polyhedron</i> , 2007 , 26, 797-802	2.7	15
30	Study of ring cleavage in quaternary ammonium salts of 1,3-diazaadamantane. <i>Russian Chemical Bulletin</i> , 2007 , 56, 1555-1560	1.7	1

- 29 Three-coordinate silver(I) ions and tridentate ligands as complementary tectons in coordination polymer construction: a new example of semiregular 4.82 nets. *Russian Chemical Bulletin*, **2007**, 56, 1775-1781 ^{1.7} 7
- 28 New stereoselective intramolecular redox reaction in the system of 3,7-diazabicyclo[3.3.1]nonan-9-one. *Russian Journal of Organic Chemistry*, **2006**, 42, 1225-1231 0.7 6
- 27 New C-arylation reaction found during a study on the interaction of aldohydrazones and arenediazonium chlorides. *Mendeleev Communications*, **2006**, 16, 251-254 1.9 3
- 26 Synthesis and spectroscopic and structural studies of cross-conjugated dienones derived from cyclic ketones and aromatic aldehydes. *Russian Chemical Bulletin*, **2006**, 55, 1184-1194 1.7 29
- 25 Pyridine-containing nickel(II) bis-formazanates: Synthesis, structure, and electrochemical study. *Russian Chemical Bulletin*, **2006**, 55, 1810-1818 1.7 6
- 24 N2S2-Type Iminothiolates and Macrocyclic Iminosulfides and Their Application as Ligands for Complexation with Ni(II) and Co(II). *Phosphorus, Sulfur and Silicon and the Related Elements*, **2005**, 180, 1451-1452 1
- 23 Metal complexes with non-innocent ligands. *Russian Chemical Reviews*, **2005**, 74, 531-553 6.8 105
- 22 The first example of a reversibly reducible Co(II) complex with an anionic 2-thiohydantoin-type ligand. *Mendeleev Communications*, **2005**, 15, 48-50 1.9 10
- 21 Synthesis of new derivatives of 5,6,7,8-tetrahydro-1,6-naphthyridines and their pharmacological properties. *Russian Chemical Bulletin*, **2005**, 54, 257-258 1.7 10
- 20 Synthesis, crystal structures, and electrochemistry of Cu(II) complexes with tetradentate N2O2 ligands derived from 3,7-diazabicyclo[3.3.1]nonan-9-one. *Russian Chemical Bulletin*, **2005**, 54, 1825-1835 ^{1.7} 11
- 19 Synthesis of unsymmetrical dienones with heteroaromatic substituents. *Russian Chemical Bulletin*, **2005**, 54, 2224-2225 1.7 2
- 18 Reaction of cross-conjugated dienones with phenyl- and 2-pyridylhydrazines. *Russian Chemical Bulletin*, **2005**, 54, 2590-2593 1.7 9
- 17 Synthesis and electrochemical study of complexes of 2-methylthio-5-(pyridylmethylidene)-3,5-dihydro-4H-imidazol-4-ones with transition metals (Co, Ni, and Cu). Molecular structures of Cu(II)LCl₂ (L1 is (5Z)-2-methylthio-3-phenyl-5-(pyridylmethylidene)-3,5-dihydro-4H-imidazol-4-one) and Co(II)L₂Cl₂ (L2 is (5Z)-3-methyl-2-methylthio-5-(pyridylmethylidene)-3,5-dihydro-4H-imidazol-4-one). *Russian Chemical Bulletin*, **2005**, 54, 2171-2182 1.7 18
- 16 Microwave irradiation in organic synthesis. *Russian Chemical Reviews*, **2005**, 74, 969-1013 6.8 24
- 15 Synthesis, structure and electrochemistry of Co(II)LCl₂·0.5MeCN {L = [2-(methylthio)-3-phenyl-5-(pyridin-2-ylmethylene)-3,5-dihydro-4H-imidazol-4-one]}. *Mendeleev Communications*, **2004**, 14, 115-117 1.9 17
- 14 Synthesis of diiodo- and triiodoanilines by iodination of aniline with potassium dichloroiodate and preparation of 1,3,5-triiodobenzene. *Russian Chemical Bulletin*, **2004**, 53, 471-473 1.7 4
- 13 New aspects of the aldol condensation of acetylpyridines with aromatic aldehydes. *Russian Chemical Bulletin*, **2004**, 53, 911-915 1.7 6
- 12 Regio- and stereochemical features of the reactions of 1,2,5-trimethylpiperidin-4-one with chalcone. *Russian Chemical Bulletin*, **2004**, 53, 2805-2809 1.7 4

- 11 Synthesis of isomeric 3-phenyl-5-(pyridylmethylene)-2-thiohydantoins and their S-methylated derivatives. Molecular and crystal structures of (5Z)-3-phenyl-5-(pyridin-2-ylmethylene)-2-thiohydantoin and (5Z)-2-methylthio-3-phenyl-5-(pyridin-2-ylmethylene)-3,5-dihydro-4H-imidazol-4-one. *Russian Journal of Crystallography*, **2004**, 60, o1231-o1233 1.7 21
- 10 3-(4-Pyridyl)-5-(2-pyridyl)-1H-pyrazole. *Acta Crystallographica Section E: Structure Reports Online*, **2004**, 60, o1472-o1473
- 9 4a-Hydroxy-2,3,8a-trimethyl-6-oxo-8-phenylperhydroisoquinolinium chloride. *Acta Crystallographica Section E: Structure Reports Online*, **2004**, 60, o1472-o1473
- 8 Theoretical study pyridine-substituted β -diketones. *Computational and Theoretical Chemistry*, **2004**, 711, 7-11 3
- 7 Novel dienone-based ligands for the synthesis of coordination polymers. *CrystEngComm*, **2004**, 6, 112 3.3 19
- 6 Methods for the synthesis of vinyl sulfides. *Russian Chemical Reviews*, **2003**, 72, 769-786 6.8 64
- 5 New Complexes of Nickel(II) Containing Macrocyclic Diaminodiiminepiperazine Ligands: Synthesis and Electrochemical Properties. *Russian Journal of Electrochemistry*, **2003**, 39, 1253-1260 1.2 1
- 4 Acid-Catalyzed Isomerization of 1-Halo-2-Arylthioalk-1-Enes. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2002**, 177, 555-565 1 2
- 3 A CONVENIENT METHOD FOR BROMOSULFENYLATION: REACTIONS OF SULFENAMIDES WITH OLEFINS IN THE PRESENCE OF POBr₃. *Phosphorus, Sulfur and Silicon and the Related Elements*, **1999**, 155, 33-45 1 9
- 2 A NEW METHOD FOR MIXED HALOGENATION. N-CHLOROAMINE-PHOSPHORUS BROMIDE SYSTEM AS A SYNTHETIC EQUIVALENT OF THE MIXED HALOGEN Cl+Br \square . *Phosphorus, Sulfur and Silicon and the Related Elements*, **1998**, 139, 107-122 1
- 1 Reactions of Sulfenic and Sulfoxylic Acid Derivatives with Olefins in the Presence of Sulfur Trioxide and its Complexes. *Sulfur Reports*, **1992**, 11, 233-252 9