Nikolai V Zyk

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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	Metal complexes with non-innocent ligands. *Russian Chemical Reviews*, **2005**, 74, 531-553	6.8	105
81	Methods for the synthesis of vinyl sulfides. *Russian Chemical Reviews*, **2003**, 72, 769-786	6.8	64
80	Modern Trends of Organic Chemistry in Russian Universities. *Russian Journal of Organic Chemistry*, **2018**, 54, 157-371	0.7	62
79	Chemistry of cross-conjugated dienones. *Russian Chemical Reviews*, **2008**, 77, 661-681	6.8	30
78	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
77	Gold nanoparticles modified with coordination compounds of metals: synthesis and application. *Russian Chemical Reviews*, **2012**, 81, 65-90	6.8	28
76	Synthesis and characterization of terpyridine-type ligand-protected gold-coated Fe3O4 nanoparticles. *Mendeleev Communications*, **2010**, 20, 158-160	1.9	28
75	Microwave irradiation in organic synthesis. *Russian Chemical Reviews*, **2005**, 74, 969-1013	6.8	24
74	Enzyme-functionalized gold-coated magnetite nanoparticles as novel hybrid nanomaterials: synthesis, purification and control of enzyme function by low-frequency magnetic field. *Colloids and Surfaces B: Biointerfaces*, **2015**, 125, 104-9	6	23
73	Design, synthesis and bioactivity of simplified taxol analogues on the basis of bicyclo[3.3.1]nonane derivatives. *Mendeleev Communications*, **2008**, 18, 183-185	1.9	22
72	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	1.7	21
71	Oxidation of triphenylphosphine and norbornene by nitrous oxide in the presence of CoIILCl2 [L = 3-phenyl-5-(2-pyridylmethylidene)-2-thiohydantoin]: the first example of CoII-catalyzed alkene oxidation by N2O. *Mendeleev Communications*, **2009**, 19, 69-71	1.9	19
70	Novel dienone-based ligands for the synthesis of coordination polymers. *CrystEngComm*, **2004**, 6, 112	3.3	19
69	New copper(II) thiohydantoin complexes: Synthesis, characterization, and assessment of their interaction with bovine serum albumin and DNA. *Journal of Inorganic Biochemistry*, **2017**, 175, 190-197	4.2	18
68	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 CuIIL1Cl2 (L1 is	1.7	18
67	CoII complex of N-[2-(phenylseleno)cyclohexyl]-N-(pyridin-2-ylmethylene) amine: Synthesis, electrochemistry and catalysis of triphenylphosphine and norbornene oxidation by nitrous oxide. *Mendeleev Communications*, **2012**, 22, 70-72	1.9	17
66	Chiral Ligands to Support Self-Assembly of [LPdCl]3 Trimers via a Set of Secondary Interactions. *Organometallics*, **2009**, 28, 1027-1031	3.8	17

65	Synthesis, structure and electrochemistry of CoIILCl2□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
64	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. *Polyhedron*, **2015**, 85, 800-808	2.7	16
63	The preparation, crystal structure and electrochemistry of (5Z,5?Z)-2,2?-(alkane-ꟷdiylsulfanyldiyl)bis(5-(3-pyridylmethylene)-3,5-dihydro-4H-imidazol-4-ones) and their complexes with cobalt(II) chloride. *Polyhedron*, **2007**, 26, 797-802	2.7	15
62	Conversion of 2-thiohydantoins and their derivatives to the corresponding hydantoins in the processes of complexation reactions with copper(II) chloride dihydrate. *Polyhedron*, **2014**, 76, 45-50	2.7	13
61	Synthesis, X-ray crystallography and electrochemistry of three novel copper complexes with imidazole-containing hydantoin and thiohydantoins. *Polyhedron*, **2013**, 63, 15-20	2.7	13
60	Synthesis, crystal structures, and electrochemistry of CuII 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
59	Nitrosation of 2-aryl-1,1-dibromocyclopropanes: synthesis of 3-aryl-5-bromoisoxazoles. *Tetrahedron Letters*, **2015**, 56, 6577-6579	2	10
58	The first example of a reversibly reducible CoII complex with an anionic 2-thiohydantoin-type ligand. *Mendeleev Communications*, **2005**, 15, 48-50	1.9	10
57	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
56	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. *Polyhedron*, **2018**, 148, 129-137	2.7	9
55	Synthesis, characterisation, cytotoxicity and antibacterial activity of ruthenium(II) and rhodium(III) complexes with sulfur-containing terpyridines. *Polyhedron*, **2016**, 107, 27-37	2.7	9
54	Reaction of cross-conjugated dienones with phenyl-and 2-pyridylhydrazines. *Russian Chemical Bulletin*, **2005**, 54, 2590-2593	1.7	9
53	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
52	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
51	Copper(II) complex with (4Z,4Z)-1,1-[disulfanediylbis(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. *Mendeleev Communications*, **2014**, 24, 37-39	1.9	8
50	New system for nitrosation of alkyl-substituted gem-dichlorocyclopropanes. *Mendeleev Communications*, **2011**, 21, 188-189	1.9	7
49	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
48	Synthesis and cytotoxicity of oxindoles dispiro derivatives with thiohydantoin and adamantane fragments. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2020**, 195, 544-555	1	7

47	Synthesis of 5-fluoro- and 5-bromoalkylisoxazoles via nitrosation of 1,1-dihalocyclopropanes with sulfur trioxide activated nitrosyl chloride. *Journal of Fluorine Chemistry*, **2016**, 185, 201-205	2.1	7
46	Synthesis and biological testing of conformationally restricted serotonin analogues with bridgehead moieties. *Mendeleev Communications*, **2012**, 22, 75-77	1.9	6
45	Coordination Compounds of S- and Se-Containing Organic Ligands as Catalysts of Oxidation Reaction Under N2O Action. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2013**, 188, 377-383	1	6
44	New separation materials based on gold nanoparticles. *Journal of Manufacturing Technology Management*, **2010**, 21, 950-955	7.1	6
43	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
42	Pyridine-containing nickel(II) bis-formazanates: Synthesis, structure, and electrochemical study. *Russian Chemical Bulletin*, **2006**, 55, 1810-1818	1.7	6
41	New aspects of the aldol condensation of acetylpyridines with aromatic aldehydes. *Russian Chemical Bulletin*, **2004**, 53, 911-915	1.7	6
40	The first tris(imidazolylbenzothiazole) copper(II) complex. *Mendeleev Communications*, **2015**, 25, 148-149	1.9	5
39	Synthesis of 1,3-diaryl-spiro[azetidine-2,3'-indoline]-2',4-diones the Staudinger reaction: - or -diastereoselectivity with different addition modes.. *RSC Advances*, **2020**, 10, 14122-14133	3.7	5
38	Regiospecificity of the nitrosation of di(gem-dichlorocyclopropanes) obtained from butadiene and isoprene. *Tetrahedron Letters*, **2013**, 54, 1845-1848	2	5
37	Unexpected mode of reactivity in nitrosation of cis-1,1-dichloro-2,3-diphenylcyclopropane with NOCl⁄2SO3. *Mendeleev Communications*, **2009**, 19, 12-13	1.9	5
36	Synthesis of indole derivatives fused with bicyclo[3.2.1]octane framework. *Mendeleev Communications*, **2009**, 19, 10-11	1.9	5
35	Copper(ii) coordination compounds as building blocks for the formation of gold nanoparticle dimers. *Mendeleev Communications*, **2011**, 21, 129-131	1.9	5
34	Access to 5-fluoroisoxazoles via the nitrosation of geminal bromo-fluoro arylcyclopropanes. *Tetrahedron*, **2019**, 75, 2861-2865	2.4	4
33	New self-assembled monolayer coated cantilever for histidine-tag protein immobilization. *Mendeleev Communications*, **2010**, 20, 329-331	1.9	4
32	First organic-inorganic hybrid material based on AgNO3 and 3-pyridine containing 2-thiohydantoin. *Mendeleev Communications*, **2007**, 17, 77-79	1.9	4
31	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
30	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

29	Synthesis and application of haloisoxazoles. *Chemistry of Heterocyclic Compounds*, **2020**, 56, 1523-1534	1.4	4
28	Dispirooxindoles Based on 2-Selenoxo-Imidazolidin-4-Ones: Synthesis, Cytotoxicity and ROS Generation Ability. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
27	Diastereoselective heterocyclization of geminal bromo-fluoro arylcyclopropanes by nitrosonium tetrafluoroborate: Access to 4-fluorinated isoxazolines and isoxazoles. *Tetrahedron*, **2019**, 75, 130666	2.4	3
26	Nitrosylsulfuric acid in the synthesis of 5-chloroisoxazoles from 1,1-dichlorocyclopropanes. *Mendeleev Communications*, **2019**, 29, 419-420	1.9	3
25	An NMR study of quaternary ammonium salts of 5,7-dimethyl-1,3-diazaadamantan-6-one. *Russian Chemical Bulletin*, **2008**, 57, 2207-2209	1.7	3
24	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
23	Theoretical study pyridine-substituted □diketones. *Computational and Theoretical Chemistry*, **2004**, 711, 7-11		3
22	Binuclear copper complexes with CuICuI 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. *Inorganic Chemistry Communication*, **2019**, 99, 31-35	3.1	3
21	A convenient synthesis of copper(II) bis[5-(pyridin-2-yl-methylidene)-2-thiohydantoin] complexes. *Mendeleev Communications*, **2018**, 28, 524-526	1.9	3
20	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. *Polyhedron*, **2013**, 50, 425-433	2.7	2
19	Synthesis of unsymmetrical dienones with heteroaromatic substituents. *Russian Chemical Bulletin*, **2005**, 54, 2224-2225	1.7	2
18	Acid-Catalyzed Isomerization of 1-Halo-2-Arylthioalk-1-Enes. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2002**, 177, 555-565	1	2
17	Three types of copper derivatives formed by CuCl□2HO interaction with ()-3-aryl-2-(methylthio)-5-(pyridine-2-ylmethylene)-3,5-dihydro-4-imidazol-4-ones. *Dalton Transactions*, **2020**, 49, 14528-14535	4.3	2
16	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. *Polyhedron*, **2021**, 200, 115149	2.7	2
15	[3+2]-Cycloaddition of azomethine ylides to 5-methylidene-3-aryl-2-□alcogen-imidazolones: access to dispiro indolinone-pyrrolidine-imidazolones.. *Royal Society Open Science*, **2022**, 9, 211967	3.3	2
14	Unusual complexation of 1-phenylthiocarbamoyl-3-(pyridin-2-yl)pyrazoline with copper(ii) chloride. *Mendeleev Communications*, **2020**, 30, 244-245	1.9	1
13	Syntheses of terpyridine-pyridylbenzothiazole linked ditopic ligands and their copper(II) complexes. *Polyhedron*, **2020**, 179, 114403	2.7	1
12	Crystal structure of the tritylated product of 3-hydroxymethylbicyclo[3.3.1]nonan-2-on-7-ol ethylene acetal cyclization. *Mendeleev Communications*, **2007**, 17, 332-334	1.9	1

11	Study of ring cleavage in quaternary ammonium salts of 1,3-diazaadamantane. *Russian Chemical Bulletin*, **2007**, 56, 1555-1560	1.7	1
10	New Complexes of Nickel(II) Containing Macrocyclic Diaminodiiminepiperazine Ligands: Synthesis and Electrochemical Properties. *Russian Journal of Electrochemistry*, **2003**, 39, 1253-1260	1.2	1
9	Synthesis of 3-(pyridine-2-yl)-4,5-dihydro-1H-pyrazole-1-thiocarboxamides and their copper(II) complexes. *Arabian Journal of Chemistry*, **2019**, 12, 1050-1060	5.9	1
8	Alternative mechanism of action of the DNP Pt prodrug: intracellular cisplatin release and the mitochondria-mediated apoptotic pathway. *Dalton Transactions*, **2021**, 50, 7922-7927	4.3	1
7	First example of the ring-opening transformation of thiazolidines to iminothiols on gold surface. *Mendeleev Communications*, **2009**, 19, 92-93	1.9	0
6	Ditopic pyridyl-benzothiazole pyridylmethylene-2-thiohydantoin conjugates: synthesis and study in complexation with CuCl2. *Polyhedron*, **2022**, 115838	2.7	0
5	Cellular uptake of N-acetyl-d-galactosamine-, N-acetyl-d-glucosamine- and d-mannose-containing fluorescent glycoconjugates investigated by liver intravital microscopy. *Carbohydrate Research*, **2020**, 489, 107928	2.9	
4	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	
3	3-(4-Pyridyl)-5-(2-pyridyl)-1H-pyrazole. *Acta Crystallographica Section E: Structure Reports Online*, **2004**, 60, o1231-o1233		
2	4a-Hydroxy-2,3,8a-trimethyl-6-oxo-8-phenylperhydroisoquinolinium chloride. *Acta Crystallographica Section E: Structure Reports Online*, **2004**, 60, o1472-o1473		
1	A NEW METHOD FOR MIXED HALOGENATION. N-CHLOROAMINE-PHOSPHORUS BROMIDE SYSTEM AS A SYNTHETIC EQUIVALENT OF THE MIXED HALOGEN Cl+Br*Phosphorus, Sulfur and Silicon and the Related Elements*, **1998**, 139, 107-122	1	