Sergei V Voitekhovich

List of Publications by Year
in descending order

79	1,330	393982 19	395343 33
papers	citations	h-index	g-index

83	83	83	1199
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metal derivatives of tetrazoles. Russian Chemical Reviews, 2006, 75, 507-539.	2.5	184
2	3D Assembly of Semiconductor and Metal Nanocrystals: Hybrid CdTe/Au Structures with Controlled Content. Journal of the American Chemical Society, 2011, 133, 13413-13420.	6.6	112
3	CdTe Nanocrystals Capped with a Tetrazolyl Analogue of Thioglycolic Acid: Aqueous Synthesis, Characterization, and Metal-Assisted Assembly. ACS Nano, 2010, 4, 4090-4096.	7.3	80
4	Crystal structure and physical properties of the new 2D polymeric compound bis(1,5-diaminotetrazole)dichlorocopper(II). Inorganica Chimica Acta, 2005, 358, 2549-2557.	1.2	61
5	1,5-Diamino-1H-1,2,3,4-tetrazolium picrate: X-ray molecular and crystal structures and ab initio MO calculations. Journal of Molecular Structure, 2003, 649, 309-314.	1.8	47
6	CdS Nanoparticles Capped with 1-Substituted 5-Thiotetrazoles: Synthesis, Characterization, and Thermolysis of the Surfactant. Chemistry of Materials, 2008, 20, 4545-4547.	3.2	45
7	Copper(II), palladium(II) and platinum(II) chloride complexes with 5-amino-2-tert-butyltetrazole: Synthesis, characterization and cytotoxicity. Polyhedron, 2009, 28, 3614-3620.	1.0	33
8	Tetrazoles: Unique Capping Ligands and Precursors for Nanostructured Materials. Small, 2015, 11, 5728-5739.	5.2	31
9	1,3- and 1,4-Substituted tetrazolium salts. Russian Chemical Reviews, 2002, 71, 721-739.	2.5	30
10	Synthesis of New Functionally Substituted 1-R-tetrazoles and Their 5-Amino Derivatives. Chemistry of Heterocyclic Compounds, 2005, 41, 999-1004.	0.6	28
11	Synthesis, properties, and structure of tetrazoles: Certain achievements and prospects. Russian Journal of Organic Chemistry, 2013, 49, 635-654.	0.3	28
12	Endo- and exocyclic N-alkylation of 1- and 5-aminotetrazoles with t-BuOHâ€“HClO4: synthesis of mono-, di-, and tri-tert-butyl substituted aminotetrazolium salts. Tetrahedron, 2008, 64, 8721-8725.	1.0	27
13	2-tert-Butyl-5-(2-pyridyl)-2H-tetrazole as a chelating ligand in the direct synthesis of novel Cu(<scp>ii</scp>) and heterobimetallic Cu(<scp>ii</scp>)/Mn(<scp>ii</scp>) complexes. Dalton Transactions, 2013, 42, 2985-2997.	1.6	27
14	Synthesis of tetrazole and its derivatives by heterocyclization reaction involving primary amines, orthoesters, and azides. Chemistry of Heterocyclic Compounds, 2017, 53, 670-681.	0.6	24
15	1-Substituted Tetrazole-5-thiol-Capped Noble Metal Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 16928-16933.	1.5	22
16	Direct Synthesis and Characterization of New Copper(II) and Zinc(II) 5â€Râ€Tetrazolato Complexes [R = Me, Ph, 4â€Py] with Ethylenediamine and DMSO as Coligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 103-110.	0.6	22
17	1,5-Diamino-1H-1,2,3,4-tetrazole. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 185-186.	0.4	21
18	1-Vinyl-5-amino-1H-tetrazole: X-ray molecular and crystal structures and quantum-chemical DFT calculations. Journal of Molecular Structure, 2008, 876, 260-267.	1.8	21

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19	N-Alkylation of 4-nitro-1,2,3-triazole revisited. Detection and characterization of the N3-ethylation product, 1-ethyl-5-nitro-1,2,3-triazole. Tetrahedron Letters, 2009, 50, 2577-2579.	0.7	21
20	Organometallic Tetrazole Derivatives: Preparation and Application to Organic Synthesis. Russian Journal of Organic Chemistry, 2005, 41, 1565-1582.	0.3	20
21	1-Substituted 5-thiotetrazoles as novel capping agents for stabilization of gold nanoparticles. Polyhedron, 2009, 28, 3138-3142.	1.0	19
22	Regioselective alkylation of amino- and mercapto-1,2,4-triazoles with t-BuOHâ€“HClO4. Tetrahedron, 2012, 68, 4962-4966.	1.0	19
23	Selective synthesis of 2-(1-methylvinyl)tetrazoles. Mendeleev Communications, 1997, 7, 41-42.	0.6	18
24	Formation of 2-(2-Cyclohexenyl)-5-R-tetrazoles in Acid-Catalyzed Alkylation of 5-Substituted Tetrazoles with 1,3-Cyclohexadiene. Russian Journal of Organic Chemistry, 2004, 40, 598-600.	0.3	16
25	A Novel N(3),N(4)-Bridging Coordination Mode of 1-R-Tetrazole-5-thiolates - Synthesis, X-ray Diffraction, Magnetic Properties and Quantum-Chemical Study of a Macrocyclic Dinickel Complex Coligated by 1-Methyltetrazole-5-thiolate. European Journal of Inorganic Chemistry, 2010, 2010, 5387-5393.	1.0	16
26	Copper(<scp>ii</scp>) tetrafluoroborate complexes with the N³,N⁴-bridging coordination of 1-(tert-butyl)-1H-tetrazole: synthesis, crystal structure and magnetic properties. Dalton Transactions, 2015, 44, 18518-18526.	1.6	14
27	Preparation and Characterization of Macrocyclic Dinickel Complexes Coligated by Tetrazolate Ligands. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2008, 63, 496-502.	0.3	13
28	Preparation and characterization of the first coordination compounds of tetrazol-2-ylacetic acid. Inorganic Chemistry Communication, 2010, 13, 949-951.	1.8	13
29	Adsorption of I₂ by Macrocyclic Polyazadithiophenolato Complexes Mediated by Chargeâ€Transfer Interactions. Angewandte Chemie - International Edition, 2014, 53, 9949-9952.	7.2	13
30	Direct synthesis and characterization of novel homo- and heterometallic mixed-ligand tetrazolate complexes, Cu(en)(tz)2 and Cu(en)2Zn(tz)4 [en=ethylenediamine, tz=tetrazolate]. Inorganic Chemistry Communication, 2009, 12, 998-1000.	1.8	12
31	Magnetic Properties of Mixed Ligand Ni^{II}₂ and Ni^{II}₄ Complexes Composed of Macrocyclic Hexaamineâ€Dithiophenolato and Bridging Tetrazolato Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 1980-1986.	0.6	12
32	3D assembly of silica encapsulated semiconductor nanocrystals. Nanoscale, 2015, 7, 12713-12721.	2.8	12
33	Acid Catalyzed tertâ€Butylation and Tritylation of 4â€Nitroâ€1,2,3â€triazole: Selective Synthesis of 1â€Methylâ€5â€nitroâ€1,2,3â€triazole via 1â€tertâ€Butylâ€4â€nitroâ€1,2,3â€triazole. Journal of Heterocyclic Chemistry, 2012, 49, 965-968.	1.4	11
34	Tetrazole-Stabilized Gold Nanoparticles for Catalytic Applications. Zeitschrift Fur Physikalische Chemie, 2017, 231, 51-62.	1.4	11
35	5-Amino-1-methyl-4H-tetrazolium picrate. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o3645-o3647.	0.2	10
36	Copper(II) Halide Complexes with 1â€tertâ€Butylâ€1Hâ€1,2,4â€triazole and 1â€tertâ€Butylâ€1Hâ€tetrazole. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 100-108.	0.6	10

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37	Substituent-dependent coordination modes of 1-methyl-5-R-tetrazoles in their cupric chloride complexes. Polyhedron, 2019, 162, 100-110.	1.0	10
38	Synthesis and Agglomeration of Silver Nanoparticles Stabilized with 5-R-Tetrazoles. Zeitschrift Fur Physikalische Chemie, 2011, 225, 363-371.	1.4	9
39	Facile synthesis of macrocyclic tetrazoles by regioselective cycloalkylation of bistetrazoles with 2,5-dimethylhexane-2,5-diol in perchloric acid. Tetrahedron Letters, 2012, 53, 6111-6114.	0.7	9
40	Tetranuclear complexes composed of dinickel(II) macrocyclic fragments bridged by 5,5â€²-(1,3-phenylene)bis-1H-tetrazolato and N,N-bis(tetrazol-5-ato)amine coligands: Synthesis, structures and magnetic properties. Polyhedron, 2013, 49, 183-189.	1.0	9
41	2-(1H-Tetrazol-1-yl)thiazole: Complexation and copper-assisted tetrazole ring transformation. Polyhedron, 2019, 171, 423-432.	1.0	9
42	Acid-mediated cycloalkylation of C-aminoazoles with 2,5-dimethylhexane-2,5-diol. Tetrahedron Letters, 2012, 53, 419-421.	0.7	8
43	1â€(Furanâ€2â€ylmethyl)â€1Hâ€tetrazole and its Copper(II) Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2312-2320.	0.6	8
44	5â€(2â€Mercaptoethyl)â€1Hâ€tetrazole: Facile Synthesis and Application for the Preparation of Water Soluble Nanocrystals and Their Gels. Chemistry - A European Journal, 2016, 22, 14746-14752.	1.7	8
45	catena-Poly[[bis[Î¼-1,2-bis(1-methyltetrazol-5-yl)ethane-Îº2N4:N4â€²]bis[chlorocopper(II)]]-di-Î¼-chloro]. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, m221-m223.	0.4	7
46	Neutron and synchrotron X-ray powder study of copper(II) chloride complex with deuterated 1-ethyltetrazole. Zeitschrift FÃ¼r Kristallographie, 2009, 224, 233-239.	1.1	7
47	Selective complexation of 1-ethyl-5-nitro-1,2,3-triazole (entz) with copper(II) salts: Preparation and characterization of [Cu(entz)2Cl2] and [Cu(entz)4(H2O)2](ClO4)2. Inorganic Chemistry Communication, 2012, 24, 77-80.	1.8	7
48	1â€(2â€Hydroxyethyl)â€3â€nitroâ€1, 2, 4â€triazole and its Complexes with Copper(II) Chloride and Copper(II) Perchlorate. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 950-956.	0.6	7
49	Thermodynamic properties of 5-(1-adamantyl)tetrazole. Thermochimica Acta, 2014, 592, 10-17.	1.2	7
50	Synthesis and characterization of 5-amino-1,3-di-tert-butyl-2H-tetrazol-1-ium bis[di-Î¼-chlorido-bis[dichloridocuprate(II)]]. Inorganica Chimica Acta, 2014, 419, 124-129.	1.2	7
51	The first organocopper tetrazole derivative: synthesis and characterization. Dalton Transactions, 2016, 45, 13406-13414.	1.6	7
52	The First Characterized Coordination Compounds of Macrocyclic Ligands Including Incorporated Tetrazole Rings. Crystal Growth and Design, 2017, 17, 1796-1805.	1.4	7
53	Transition metal chelate complexes with tetrazole derived Mannich base: Metal dependent architecture and properties. Polyhedron, 2018, 151, 74-81.	1.0	7
54	Dichloro[N,N-dimethyl-1-(1-methyl-1H-tetrazol-5-yl-Îº N4)methanamine-Îº N]copper(II). Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, m563-m564.	0.4	6

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55	1-(1,2,4-Triazol-3-yl)-1H-tetrazoles and their complexation with copper(II) chloride. Polyhedron, 2020, 176, 114299.	1.0	6
56	Polymeric chain complexes of copper(II) chloride with 1,5-disubstituted tetrazoles: Structure and magnetic properties. Polyhedron, 2021, 194, 114907.	1.0	6
57	Synthesis and Structure of 1-tert-Butyl-3-R-tetrazolium Salts. Chemistry of Heterocyclic Compounds, 2001, 37, 949-959.	0.6	5
58	Alkylation of 3-nitro-1,2,4-triazole with allyl bromide and cyclohexa-1,3-diene in acid medium. Russian Journal of Organic Chemistry, 2012, 48, 610-612.	0.3	5
59	Effects of quinones and azoles on radiation-induced processes involving hydroxyl-containing carbon-centered radicals. Radiation Physics and Chemistry, 2018, 144, 308-316.	1.4	5
60	Selective Synthesis and Complexation of Novel N,Nâ€²â€Alkyleneâ€Bridged Bis(5â€pyridyltetrazole). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1611-1617.	0.6	5
61	4-Nitro-2-(1H-tetrazol-1-yl)phenol. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 1204-1206.	0.4	4
62	[1,5-Bis(1-methyl-1H-tetrazol-5-yl-Îº*N*)-3-oxopentane-Îº*O*]dichlorocopper(II). Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 1374-1375.	0.4	4
63	2-(1H-Tetrazol-1-yl)benzoic acid. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 1436-1437.	0.4	4
64	Zwitterionic 5-(1-piperidiniomethyl)-1H-tetrazolide. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, o22-o23.	0.4	4
65	A tetrazol-5-yl analogue of glycine, 5-ammoniomethyl-1H-tetrazolide, and its copper(II) complex. Acta Crystallographica Section C: Crystal Structure Communications, 2010, 66, m22-m25.	0.4	4
66	Halidoâ€bridged Copper(II) Complexes with 1â€tertâ€Butylâ€1Hâ€tetrazole: Crystal Structure and Magnetic Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1331-1335.	0.6	4
67	Copper-assisted desulfurization of 1-R-tetrazole-5-thiols under complexation. Inorganic Chemistry Communication, 2020, 114, 107827.	1.8	4
68	1,3-Bis(1-methyl-1H-tetrazol-5-yl)propane and its coordination polymers with Cu2Cl4 and Cu3Cl6 units. Polyhedron, 2020, 190, 114793.	1.0	4
69	Thermal Recyclization of 5-R-2-Isopropenyltetrazoles into 5-R-3-Methylpyrazoles. Chemistry of Heterocyclic Compounds, 2002, 38, 1422-1423.	0.6	3
70	1-Phenyl-5-(piperidinomethyl)-1H-tetrazole. Acta Crystallographica Section C: Crystal Structure Communications, 2004, 60, o293-o294.	0.4	3
71	Bis[1,3-bis(2-methyltetrazol-5-yl-Îº*N*4)triazenido-Îº*N*2]nickel(II). Acta Crystallographica Section C: Crystal Structure Communications, 2004, 60, m421-m422.	0.4	3
72	Nâ€substituted bis(tetrazolâ€5â€yl)diazenes: Synthesis, spectra, Xâ€ray molecular and crystal structures, and quantumâ€chemical DFT calculations. Heteroatom Chemistry, 2010, 21, 24-35.	0.4	3

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73	Mesoionic tetrazolium-5-aminides: Synthesis, molecular and crystal structures, UVâ€“vis spectra, and DFT calculations. Beilstein Journal of Organic Chemistry, 2021, 17, 385-395.	1.3	3
74	Non-linear optical crystals of 2,2,3-trimethyl-3-(1H-1,2,3,4-tetrazol-5-yl)butanenitrile. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, o388-o389.	0.4	2
75	Bis(1-methyl-1H-tetrazol-5-yl)diazene and two its copper(I) chloride complexes poly[[[Î¼-1,2-bis(1-methyl-1H-tetrazol-5-yl)diazene-Î²4Nâ€²,N4:N,N4â€²]dicopper(I)]-di-Î¼-chloro] andcatena-poly[[chlorocopper(I)]-Î¼-1,2-bis(1-methyl-1H-tetrazol-5-yl)diazene-Î²4Nâ€²,N4:N,N4â€²]. Acta Crystallographica Section C: Crystal Structure Communications, 2006, 62, m223-m226.	0.4	2
76	Synthesis and structure of new ditopic ligands containing tetrazole and 3-nitro-1,2,4-triazole fragments. Russian Journal of Organic Chemistry, 2014, 50, 742-746.	0.3	2
77	Direct Synthesis and Characterization of Copper(II) 1â€Phenyltetrazolâ€5â€olates. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1633-1638.	0.6	2
78	Synthesis and structure of copper(II) complexes with 1-iso-propyl-1Ð•1,2,4-triazole. Journal of the Belarusian State University Chemistry, 2020, , 64-73.	0.1	1
79	Synthesis and structure of macrocyclic dinickel(II) complex with 5-(4-pyridyl)tetrazolate as coligand. Journal of the Belarusian State University Chemistry, 2021, , 3-10.	0.1	0