Sergey V Kolotilov

List of Publications by Year
in descending order

101 papers	1,500 citations	346980 22 h-index	445137 33 g-index
103 all docs	103 docs citations	103 times ranked	1612 citing authors

#	Article	IF	Citations
1	Control of Ag nanofoam structure and its electrocatalytic performance in bromobenzene reductive debromination via variation of electrodeposition conditions. Applied Surface Science, 2022, 579, 152131.	3.1	3
2	Versatile Reactivity of MnII Complexes in Reactions with N-Donor Heterocycles: Metamorphosis of Labile Homometallic Pivalates vs. Assembling of Endurable Heterometallic Acetates. Molecules, 2021, 26, 1021.	1.7	4
3	Cu-Catalyzed Pyridine Synthesis via Oxidative Annulation of Cyclic Ketones with Propargylamine. Journal of Organic Chemistry, 2021, 86, 7315-7325.	1.7	12
4	Third Generation Buchwald Precatalysts with XPhos and RuPhos: Multigram Scale Synthesis, Solvent-Dependent Isomerization of XPhos Pd G3 and Quality Control by 1H- and 31P-NMR Spectroscopy. Molecules, 2021, 26, 3507.	1.7	2
5	Influence of the Structure of Hydrophobic Porous Silica Materials of SBA-15 Type and Polymethylsiloxane Derivatives on the Value of Water Intrusion Pressure. Theoretical and Experimental Chemistry, 2021, 57, 134-140.	0.2	2
6	Cadmium-Inspired Self-Polymerization of {LnIIICd2} Units: Structure, Magnetic and Photoluminescent Properties of Novel Trimethylacetate 1D-Polymers (Ln = Sm, Eu, Tb, Dy, Ho, Er, Yb). Molecules, 2021, 26, 4296.	1.7	8
7	Catalytic Hydrogenation of Substituted Quinolines on Coâ€“Graphene Composites. European Journal of Organic Chemistry, 2021, 2021, 6616-6625.	1.2	10
8	In-situ formation of NixB/MIL-101(Cr) and Pd/MIL-101(Cr) composites for catalytic hydrogenation of quinoline. Inorganic Chemistry Communication, 2020, 121, 108203.	1.8	12
9	Influence of the Structures of the Carboxylate Porous Coordination Polymers as Stationary Phases for Liquid Chromatography on the Separation Efficiency of the Aniline Derivatives. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2020, 46, 458-465.	0.3	1
10	Modern Approaches to the Creation of Immobilized Metal-Complex Catalysts for Hydrogenation, Alkene Metathesis, and Cross-Coupling Processes: A Review. Theoretical and Experimental Chemistry, 2020, 56, 283-308.	0.2	8
11	Composites Based on Nanodispersed Nickel, Graphene-Like Carbon, and Aerosil for Catalytic Hydrogenation of Furfural and Quinoline. Theoretical and Experimental Chemistry, 2020, 56, 261-267.	0.2	8
12	Practical Synthetic Method for Functionalized 1-Methyl-3/5-(trifluoromethyl)-1H-pyrazoles. Organic Process Research and Development, 2020, 24, 2619-2632.	1.3	6
13	Compositions Based on Microporous Coordination Polymers for the Formation of Arbitrarily Shaped 3D Objects. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2020, 46, 350-354.	0.3	1
14	Similarities of Coordination Polymer and Dimeric Complex of Europium(III) with Joint and Separate Terpyridine and Benzoate. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1710-1714.	0.6	7
15	Electrochemical Scaledâ€up Synthesis of Cyclic Enecarbamates as Starting Materials for Medicinal Chemistry Relevant Building Bocks. Advanced Synthesis and Catalysis, 2020, 362, 3229-3242.	2.1	17
16	Structures and Spectral and Magnetic Properties of a Series of Carbacylamidophosphate Pentanuclear Lanthanide(III) Hydroxo Complexes. Inorganic Chemistry, 2019, 58, 14682-14692.	1.9	16
17	CoII Complexes with a Tripyridine Ligand, Containing a 2,6-Di-tert-butylphenolic Fragment: Synthesis, Structure, and Formation of Stable Radicals. ACS Omega, 2019, 4, 203-213.	1.6	3
18	Synthesis, Structure, and Magnetic Properties of a Family of Complexes Containing a {CoII 2 DyIII } Pivalate Core and a Pentanuclear CoII 4 DyIII Derivative. European Journal of Inorganic Chemistry, 2018, 2018, 1334-1334.	1.0	1

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19	Synthesis, Structure, and Magnetic Properties of a Family of Complexes Containing a {CoII 2 DyIII } Pivalate Core and a Pentanuclear CoII 4 DyIII Derivative. European Journal of Inorganic Chemistry, 2018, 2018, 1356-1366.	1.0	21
20	Formation of hierarchically-ordered nanoporous silver foam and its electrocatalytic properties in reductive dehalogenation of organic compounds. New Journal of Chemistry, 2018, 42, 17499-17512.	1.4	6
21	Magnetic Properties of Ln^{III}â€“Cu^{II} 15â€Metallacrownâ€5 Dimers with Terephthalate (Ln^{III} = Pr, Nd, Sm, Eu). European Journal of Inorganic Chemistry, 2018, 2018, 3504-3511.	1.0	13
22	The Ultrasonic Treatment as a Promising Method of Nanosized Oxide CeO2-MoO3 Composites Preparation. Springer Proceedings in Physics, 2018, , 297-309.	0.1	4
23	Ferromagnetically-coupled Ni(II) and Co(II) Tetranuclear Cubane Complexes with a Ligand of New Type - Sulfonyl Analogue of Î²-Diketonates. Current Inorganic Chemistry, 2018, 7, 122-129.	0.2	1
24	Creation of Porous Coordination Polymers with Desired Functionality for Adsorptive Separation, Catalysis and Electrocatalysis. Current Inorganic Chemistry, 2018, 7, 89-105.	0.2	0
25	2D Coordination Polymer Built from Lithium Dimethylmalonate and Co^{II} Ions: The Influence of Dehydration on Spectral and Magnetic Properties. European Journal of Inorganic Chemistry, 2017, 2017, 1396-1405.	1.0	11
26	High Nuclearity Assemblies and One-Dimensional (1D) Coordination Polymers Based on Lanthanideâ€“Copper 15-Metallacrown-5 Complexes (Ln^{III} = Pr, Nd, Sm, Eu). Inorganic Chemistry, 2017, 56, 13152-13165.	1.9	19
27	Influence of the Synthesis Conditions and the Presence of Guest Molecules on the Structures of Coordination Polymers [Fe2MO(Piv)6(L) x] n (L = 4,4â€²-Bipyridine, Bis(4-Pyridyl)ethane) with the Labile Crystal Lattice. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2017, 43, 619-629.	0.3	3
28	Supramolecular Maleate Adducts of Copper(II) 12â€Metallacrownâ€4: Magnetism, EPR, and Alcohol Sorption Properties. European Journal of Inorganic Chemistry, 2017, 2017, 4866-4878.	1.0	13
29	Chromatographic Separation of Racemates of Alcohols Using Porous Coordination Compounds of Zinc and Vanadium(IV) with Lactate and Î²-Cyclodextrin. Theoretical and Experimental Chemistry, 2017, 53, 204-209.	0.2	5
30	New Approaches to Creation of Micro- and Mesoporous Functional Materials. Theoretical and Experimental Chemistry, 2017, 53, 327-337.	0.2	2
31	Electrochemically Active Coordination Polymers: A Review. Theoretical and Experimental Chemistry, 2016, 52, 197-211.	0.2	7
32	Effect of the Structure of Carboxylate Ligands on the X-Ray Photoelectron Spectral Parameters of Trinuclear Heterometallic Complexes [Fe2MO(O2CR)6(H2O)3](H2O)3 (M = Co, Ni; R = CH3, CCl3). Theoretical and Experimental Chemistry, 2016, 52, 252-258.	0.2	0
33	Sorption discrimination between secondary alcohol enantiomers by chiral alkyl-dicarboxylate MOFs. RSC Advances, 2016, 6, 93707-93714.	1.7	7
34	Effect of the counterion and guest molecules on the crystal structures of the coordination compounds with the Cu2(HL) 2 2+ cation (H2L = 4,4â€™-[2-(3-hydroxyiminobutyl)imino]biphenyl): Syntheses, structures, and magnetic properties. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2016, 42, 487-493.	0.3	2
35	Structure and Electrochemical Properties of Copper(Ii) Coordination Polymers with Ligands Containing Naphthyl and Anthracyl Fragments. Theoretical and Experimental Chemistry, 2016, 52, 111-118.	0.2	4
36	Special Features of the Template Effect in the Formation of Porous Coordination Polymers. Theoretical and Experimental Chemistry, 2016, 51, 380-386.	0.2	4

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37	First examples of carbacylamidophosphate pentanuclear hydroxo-complexes: Synthesis, structure, luminescence and magnetic properties. Polyhedron, 2016, 106, 44-50.	1.0	13
38	Cobalt(II) complexes with bis-2,4-[N-(S)-phenylalanyl]-6-chlorotriazine: synthesis, structure, and application for separation of enantiomers of butan-2-ol. Russian Chemical Bulletin, 2015, 64, 630-635.	0.4	0
39	Coordination Polymers and Oligonuclear Systems Based on Oximate or Hydroxamate Building Blocks: Magnetic and Sorption Properties. Current Inorganic Chemistry, 2015, 5, 5-25.	0.2	13
40	Anomalous Increase of Mesopore Size in Sba-15 Type Molecular Sieve Using Solubilized Trinuclear Complex of Chromium(Iii) as Template. Theoretical and Experimental Chemistry, 2015, 51, 133-139.	0.2	0
41	Modeling of catalytically active metal complex species and intermediates in reactions of organic halides electroreduction. Physical Chemistry Chemical Physics, 2015, 17, 5594-5605.	1.3	2
42	Influence of morphology and defects in crystals of porous coordination polymers on the sorption characteristics. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2015, 41, 353-361.	0.3	5
43	Electrochemical and Electrocatalytic Characteristics of Coordination Polymers Based on Trinuclear Pivalates and Heterocyclic Bridging Ligands. Theoretical and Experimental Chemistry, 2015, 51, 54-61.	0.2	7
44	Sorption and Separation of Optical Isomers of 2-Butanol by Chiral Porous Coordination Polymers. Theoretical and Experimental Chemistry, 2015, 51, 45-53.	0.2	6
45	Solvent-Induced Change of Electronic Spectra and Magnetic Susceptibility of Co^{II} Coordination Polymer with 2,4,6-Tris(4-pyridyl)-1,3,5-triazine. Inorganic Chemistry, 2015, 54, 5232-5238.	1.9	18
46	Heterometallic Coordination Polymers Assembled from Trigonal Trinuclear Fe₂Ni-Pivalate Blocks and Polypyridine Spacers: Topological Diversity, Sorption, and Catalytic Properties. Inorganic Chemistry, 2015, 54, 5169-5181.	1.9	84
47	Exchange Interactions in Cobalt(II) and Nickel(II) Complexes Containing M4(Î¼3-OH)2 Metal Cores with Distorted Rhombic Topology. Theoretical and Experimental Chemistry, 2015, 50, 364-370.	0.2	1
48	Structure, magnetic, and electrochemical properties of complexes of 3d-metals as redox-active units for assembling coordination polymers and porous coordination polymer on their basis. Russian Chemical Bulletin, 2015, 64, 306-317.	0.4	1
49	Photovoltaic Characteristics of Bis(2-Benzimidazolyl)-Bisthiazole Deposited on TiO2 in the Presence of Zn2+Ions. Theoretical and Experimental Chemistry, 2015, 51, 196-201.	0.2	2
50	Influence of Guest Molecules on the Crystal Lattice Structure and Porous Structure Characteristics of Coordination Polymers. Theoretical and Experimental Chemistry, 2015, 51, 301-306.	0.2	1
51	Catalytic activity of copper(II) benzenetricarboxylate (HKUST-1) in reactions of aromatic aldehydes condensation with nitromethane: Kinetic and diffusion study. Inorganica Chimica Acta, 2015, 426, 119-125.	1.2	18
52	Redox-active porous coordination polymer based on trinuclear pivalate: Temperature-dependent crystal rearrangement and redox-behavior. Journal of Solid State Chemistry, 2015, 223, 122-130.	1.4	6
53	1,1-Cyclohexanediacetate as New Bridging Ligand for Assembling of Homo- and Heterometallic Molecular Complexes with Cu 3 II , Cu 2 II Ln 2 III (LnÂ=ÂSm or Gd) and Ni 2 II Gd 2 III Cores: Synthesis, Structure and Magnetic Properties. Journal of Cluster Science, 2015, 26, 137-155.	1.7	15
54	Synthesis, crystal structure, and physicochemical properties of the new metal-organic framework â€" the iron(iii) complex with benzene-1,3,5-tricarboxylate. Russian Chemical Bulletin, 2014, 63, 862-869.	0.4	7

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55	Structures and magnetic properties of new trinuclear CoII, NiII, and CuII complexes with trimethylacetate and 1,1-cyclohexanediacetate. Russian Chemical Bulletin, 2014, 63, 1301-1307.	0.4	4
56	Redox-Active Porous Coordination Polymers Prepared by Trinuclear Heterometallic Pivalate Linking with the Redox-Active Nickel(II) Complex: Synthesis, Structure, Magnetic and Redox Properties, and Electrocatalytic Activity in Organic Compound Dehalogenation in Heterogeneous Medium. Inorganic Chemistry, 2014, 53, 4970-4979.	1.9	22
57	Formation of Coordination Polymers or Discrete Adducts via Reactions of Gadolinium(III)â€“Copper(II) 15-Metallacrown-5 Complexes with Polycarboxylates: Synthesis, Structures and Magnetic Properties. Inorganic Chemistry, 2014, 53, 1320-1330.	1.9	49
58	Synthesis, structures, sorption and magnetic properties of coordination polymers based on 3d metal pivalates and polydentate pyridine-type ligands. Russian Chemical Bulletin, 2014, 63, 252-266.	0.4	9
59	Computational study of exchange coupling in homo- and heterometallic oxo- and carboxylato bridged trinuclear complexes with triangular {Fe III 2 M(Î¼ 3 -O)} (M = Fe III , Ni II , Co II) core. Inorganica Chimica Acta, 2014, 421, 507-512.	1.2	7
60	Step-by-step thermal transformations of a new porous coordination polymer [(H2O)5CuBa(Me2mal)2]n (Me2mal2â^=dimethylmalonate): Thermal degradation to barium cuprate. Journal of Solid State Chemistry, 2013, 197, 379-391.	1.4	33
61	The Influence of Diamagnetic Substrates Absorption on Magnetic Properties of Porous Coordination Polymers. Current Inorganic Chemistry, 2013, 3, 144-160.	0.2	12
62	Synthesis, structure, circular dichroism of a Î”(â^)546-di-Î¼-hydroxo-tetrakis(S-prolinato)dicobalt(iii) complex and NMR study of its interaction with chiral and non-chiral probes in solutions. New Journal of Chemistry, 2012, 36, 2070.	1.4	5
63	The role of the bridging group in exchange coupling in dinuclear homo- and heterometallic Ni(ii) and Co(ii) complexes with oxalate, oxamidate and dithiooxamidate bridges. Dalton Transactions, 2012, 41, 11319.	1.6	10
64	2D Porous Honeycomb Polymers versus Discrete Nanocubes from Trigonal Trinuclear Complexes and Ligands with Variable Topology. Chemistry - A European Journal, 2012, 18, 5006-5012.	1.7	36
65	Coordination polymers based on trinuclear heterometallic pivalates and polypyridines: Synthesis, structure, sorption and magnetic properties. Inorganica Chimica Acta, 2012, 380, 201-210.	1.2	28
66	Magnetic properties of nanosized Î³-Fe2O3 and Î±-(Fe2/3Cr1/3)2O3, prepared by thermal decomposition of heterometallic single-molecular precursor. Journal of Magnetism and Magnetic Materials, 2012, 324, 595-601.	1.0	12
67	Antiferromagnetic ordering in cobalt(ii) and nickel(ii) 1D coordination polymers with the dithioamide of 1,3-benzenedicarboxylic acid. New Journal of Chemistry, 2011, 35, 2179.	1.4	13
68	Synthesis, structure and magnetic properties of Nd3+ and Pr3+ 2D polymers with tetrafluoro-p-phthalate. Dalton Transactions, 2011, 40, 10989.	1.6	32
69	Synthesis, structure, and magnetic properties of heterometallic trinuclear complexes {MIIâ€”LnIIIâ€”MII} (MII = Ni, Cu; LnIII = La, Pr, Sm, Eu, Gd). Russian Chemical Bulletin, 2011, 60, 2490-2503.	0.4	17
70	Effect of spinâ€“orbit coupling on the magnetic susceptibility of polynuclear complexes of 3d metals containing a Co2+ ion. Theoretical and Experimental Chemistry, 2011, 46, 422-428.	0.2	29
71	Structural trends in a series of isostructural lanthanideâ€“copper metallacrown sulfates (Ln^{III} = Pr, Nd, Sm, Eu, Gd, Dy and Ho): hexaaquapentakis[Î¼₃-glycinehydroxamato(2â^)]sulfatopentacopper(II)lanthanide(III) heptaaquapentakis[Î¼₃-glycinehydroxamato(2â^)]sulfatopentacopper(II)lanthanide(III) sulfate hexahydrate. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, m255-m265.	0.4	23
72	Magnetic and Sorption Properties of Supramolecular Systems Based on Pentanuclear Copper(II) 12â€Metallacrownâ€4 Complexes and Isomeric Phthalates: Structural Modeling of the Different Stages of Alcohol Sorption. European Journal of Inorganic Chemistry, 2011, 2011, 4826-4836.	1.0	47

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73	Structural Flexibility and Sorption Properties of 2D Porous Coordination Polymers Constructed from Trinuclear Heterometallic Pivalates and 4,4â€²â€Bipyridine. European Journal of Inorganic Chemistry, 2011, 2011, 4985-4992.	1.0	28
74	Structures and sorption properties of the coordination polymers built up of 3d metal carboxylate polynuclear complexes. Russian Chemical Bulletin, 2010, 59, 1217-1224.	0.4	8
75	Assembly of Dinuclear CuIIRigid Blocks by Bridging Azido or Poly(thiocyanato)chromates: Synthesis, Structures and Magnetic Properties of Coordination Polymers and Polynuclear Complexes. European Journal of Inorganic Chemistry, 2010, 2010, 1255-1266.	1.0	18
76	A Tripleâ€Decker Heptadecanuclear (Cu^{II})₁₅(Cr^{III})₂ Complex Assembled from Pentanuclear Metallacrowns. European Journal of Inorganic Chemistry, 2010, 2010, 4851-4858.	1.0	51
77	Topology Control of Porous Coordination Polymers by Building Block Symmetry. European Journal of Inorganic Chemistry, 2010, 2010, 5055-5057.	1.0	49
78	Magnetic properties and circular dichroism of 1D chains built from chiral mononuclear and non-chiral trinuclear Cu(II) complexes with Î±-aminocarboxylates. Inorganica Chimica Acta, 2010, 363, 3453-3460.	1.2	15
79	On the reactivity of isoindolo[2,1-a]quinazoline-5-ones. Tetrahedron, 2010, 66, 8214-8222.	1.0	10
80	A new approach towards ferromagnetic conducting materials based on TTF-containing polynuclear complexes. Journal of Materials Chemistry, 2010, 20, 9505.	6.7	38
81	Structure, Spectral and Magnetic Properties of 3-(p-Pyridyl)-1,5-diphenylverdazyl (p-PyV) and the Binuclear Copper(II) Radical Complex [Cu2(OCOCH3)4(p-PyV)2]. European Journal of Inorganic Chemistry, 2009, 2009, 2354-2361.	1.0	14
82	Effect of structural and thermodynamic factors on the sorption of hydrogen by metalâ€“organic framework compounds. Theoretical and Experimental Chemistry, 2009, 45, 75-97.	0.2	23
83	Role of the chemical structure of metalâ€“organic framework compounds in the adsorption of hydrogen. Theoretical and Experimental Chemistry, 2009, 45, 277-301.	0.2	11
84	Effect of size and morphology of chromium(III) oxide nanoparticles on their catalytic properties in deep oxidation of methane. Theoretical and Experimental Chemistry, 2009, 45, 368-372.	0.2	4
85	Porous 2D coordination polymeric formate built up by Mn(ii) linking of Fe3O units: influence of guest molecules on magnetic properties. Dalton Transactions, 2009, , 3503.	1.6	22
86	Influence of specific interactions on the sorption characteristics of porous complexes of 3d metals with derivatives of 4,4â€²-diazophenyl. Theoretical and Experimental Chemistry, 2008, 44, 60-65.	0.2	2
87	Structure and absorption volume for hydrogen of ultramicroporous coordination polymers of copper(II) with 4,4â€²-bipyridine. Theoretical and Experimental Chemistry, 2008, 44, 245-251.	0.2	3
88	Synthesis, structure and magnetic properties of oligometallic systems derived from di- and trinuclear copper(ii) amido-oximate complexes. Dalton Transactions, 2008, , 3007.	1.6	10
89	Synthesis, structure, sorption and magnetic properties of Ni(II) and Cu(II) complexes with thiosemicarbazone of 2-hydroxybenzaldehyde, bridged by 4,4â€²-bipyridine. Inorganica Chimica Acta, 2007, 360, 1883-1889.	1.2	38
90	Synthesis, structure and magnetic properties of porous magnetic composite, based on MCM-41 molecular sieve with Fe3O4 nanoparticles. Journal of Solid State Chemistry, 2006, 179, 2426-2432.	1.4	20

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91	Effect of the structure of bridging ligands on the structure and adsorption properties of 3D-coordinated copper(II) and cobalt(II) formate polymers. Theoretical and Experimental Chemistry, 2006, 42, 43-47.	0.2	1
92	Sorption of hydrogen by MCM-41 molecular sieves containing nanoparticles of 3d metals or their oxides. Theoretical and Experimental Chemistry, 2006, 42, 271-276.	0.2	6
93	Ni(II), Co(II) and Mn(II) tris(pyrazolyl)borate complexes with 2,6-di-tert-butyl-4-carboxy-phenol: Formation of coordinated phenoxyl radical. Inorganic Chemistry Communication, 2005, 8, 932-935.	1.8	14
94	Catalytic activity of nanosized Co-Cu oxide systems in the deep oxidation of methane. Theoretical and Experimental Chemistry, 2005, 41, 347-351.	0.2	5
95	Efficient mechanochemical synthesis of tris(pyrazolylborate) complexes of manganese(II), cobalt(II) and nickel(II). Inorganic Chemistry Communication, 2004, 7, 485-488.	1.8	28
96	Structural, magnetic and related attributes of some oximate-bridged tetranuclear nickel(ii) rhombs and a dinuclear congenerElectronic supplementary information (ESI) available: mass spectra, Ï‡T vs. T, response of magnetic properties, low-lying spin levels and UV-VIS data. See http://www.rsc.org/suppdata/dt/b3/b300539a/. Dalton Transactions, 2003, , 1587-1595.	1.6	43
97	A new class of macrocyclic complexes formed via nickel-promoted macrocyclisation of dioxime with dinitrile. Chemical Communications, 2002, , 468-469.	2.2	23
98	A Tetrameric Nickel(II) â€œChairâ€•with both Antiferromagnetic Internal Coupling and Ferromagnetic Spin Alignment. Angewandte Chemie - International Edition, 2001, 40, 4734-4737.	7.2	53
99	Nickel(II) complexes with dithiadiiminoamine and dithiabis(thiosemicarbazone) ligandsâ€Šâ€. Dalton Transactions RSC, 2000, , 335-341.	2.3	48
100	Mono- and Trinuclear Nickel(II) Complexes with Sulfur-Containing Oxime Ligands:Â Uncommon Templated Coupling of Oxime with Nitrile. Inorganic Chemistry, 1999, 38, 1759-1766.	1.9	61
101	The 1, 8-bis(2â€²-pyridyl)-3, 6-dithiaoctane complex of nickel(II): X-ray crystal structure and borohydride adduct formation. Inorganica Chimica Acta, 1998, 278, 217-222.	1.2	20