

# Oksana V Nesterova

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Homo- and heterometallic polynuclear transition metal catalysts for alkane C H bonds oxidative functionalization: Recent advances. <i>Coordination Chemistry Reviews</i> , 2018, 355, 199-222.	18.8	115
2	Synthesis, crystal structures and catalytic activity of Cu(II) and Mn(III) Schiff base complexes: Influence of additives on the oxidation catalysis of cyclohexane and 1-phenylehanol. <i>Journal of Molecular Catalysis A</i> , 2017, 426, 506-515.	4.8	47
3	The first heterometallic Cu(II)/Cr(III) complex with an open-chain Schiff-base ligand self-assembled from copper powder, Reineckes salt, ethylenediamine and acetone. <i>Polyhedron</i> , 2008, 27, 2426-2430.	2.2	44
4	Novel Heterometallic Schiff Base Complexes Featuring Unusual Tetranuclear {Co <sup>III</sup> <sub>2</sub> Fe <sup>III</sup> <sub>2</sub> ( $\text{I}^{1/4}$ -O) <sub>6</sub> } and Octanuclear {Co <sup>III</sup> <sub>4</sub> Fe <sup>III</sup> <sub>4</sub> ( $\text{I}^{1/4}$ -O) <sub>14</sub> } Cores: Direct Synthesis, Crystal Structures, and Magnetic Properties. <i>Inorganic Chemistry</i> , 2012, 51, 386-396.	4.0	43
5	Cr <sup>III</sup> â’Cr <sup>III</sup> Interactions in Two Alkoxo-Bridged Heterometallic Zn <sub>2</sub> Cr <sub>2</sub> Complexes Self-Assembled from Zinc Oxide, Reineckeâ€™s Salt, and Diethanolamine. <i>Inorganic Chemistry</i> , 2010, 49, 5460-5471.	4.0	42
6	Polynuclear Heterometallic Complexes from Metal Powders: The â€œDirect Synthesisâ€•Approach. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 4496-4517.	2.0	39
7	Structural, magnetic, high-frequency and high-field EPR investigation of double-stranded heterometallic [{Ni(en) <sub>2</sub> } <sub>2</sub> ( $\text{I}^{\mu}$ -NCS) <sub>4</sub> Cd(NCS) <sub>2</sub> ] <sub>n</sub> ·nCH <sub>3</sub> CN polymer self-assembled from cadmium oxide, nickel thiocyanate and ethylenediamine. <i>Dalton Transactions</i> , 2008, , 1431.	3.3	32
8	Stereoselective oxidation of alkanes with m-CPBA as an oxidant and cobalt complex with isoindole-based ligands as catalysts. <i>RSC Advances</i> , 2016, 6, 93756-93767.	3.6	31
9	Polynuclear Cobalt Complexes as Catalysts for Light-Driven Water Oxidation: A Review of Recent Advances. <i>Catalysts</i> , 2018, 8, 602.	3.5	31
10	Magnetic, high-field EPR studies and catalytic activity of Schiff base tetranuclear Cu <sup>II</sup> Fe <sup>III</sup> <sub>2</sub> complexes obtained by direct synthesis. <i>Dalton Transactions</i> , 2013, 42, 16909.	3.3	30
11	Catalytic behaviour of a novel Fe( <sub>iii</sub> ) Schiff base complex in the mild oxidation of cyclohexane. <i>Catalysis Science and Technology</i> , 2015, 5, 1801-1812.	4.1	28
12	A new 2D heterometallic Cu/Cd mixed-anion polymer with dicyanamide and thiocyanate bridges formed via the reaction of elemental copper, cadmium dicyanamide and ethylenediamine. <i>Inorganic Chemistry Communication</i> , 2004, 7, 450-454.	3.9	26
13	Copper(II) complex of the 2-pyridinecarbaldehyde aminoguanidine Schiff base: Crystal structure and catalytic behaviour in mild oxidation of alkanes. <i>Inorganic Chemistry Communication</i> , 2017, 78, 85-90.	3.9	26
14	Stereospecific sp <sup>3</sup> Câ€“H oxidation with m-CPBA: A Col <sup>II</sup> Schiff base complex as pre-catalyst vs. its Col <sup>II</sup> Cd <sup>II</sup> heterometallic derivative. <i>Applied Catalysis A: General</i> , 2018, 560, 171-184.	4.3	23
15	Novel 1D and 2D heterometallic Cu/Cd complexes comprising unique mixed-anion Cd( $\text{I}^{1/4}$ -Cl)( $\text{I}^{1/4}$ -O <sub>2</sub> CMe)Cl(O <sub>2</sub> CMe) <sub>2</sub> â’, Cd( $\text{I}^{1/4}$ -O <sub>2</sub> CMe) <sub>2</sub> I(O <sub>2</sub> CMe) <sub>2</sub> â’, Cd( $\text{I}^{1/4}$ -I)( $\text{I}^{1/4}$ -O <sub>2</sub> CMe)I(O <sub>2</sub> CMe) <sub>2</sub> â’ and building blocks. Synthesis from elemental copper, structure and magnetism. <i>Polyhedron</i> , 2005, 24, 1425-1434.	2.8	22
16	Novel heterometallic Cu(II)/Cr(III) complex with unique open-chain N-ligand produced in conditions of direct template synthesis. <i>Inorganic Chemistry Communication</i> , 2009, 12, 101-104.	3.9	22
17	An unprecedented octanuclear copper core with C <sub>3</sub> i symmetry and a paramagnetic ground state. <i>Chemical Communications</i> , 2014, 50, 3431.	4.1	22
18	Phenoxazinone synthase-like catalytic activity of novel mono- and tetranuclear copper( <sub>ii</sub> ) complexes with 2-benzylaminoethanol. <i>Dalton Transactions</i> , 2020, 49, 4710-4724.	3.3	22

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19	N,N-Dimethylethylenediamine in direct and direct template syntheses of Cu(II)/Cr(III) complexes. <i>Polyhedron</i> , 2009, 28, 1265-1272.	2.2	21
20	Structural and magnetic studies of tetranuclear heterometallic M/Cr (M = Co, Mn) complexes self-assembled from zerovalent cobalt or manganese, Reineckes salt and diethanolamine. <i>Polyhedron</i> , 2010, 29, 1326-1336.	2.2	21
21	Novel heterometallic Cu/Cd complex containing a unique polymeric ladder-like anion $[Cd_2(O_2CMe)_6]^{2\bar{n}}$ derived from elemental copper and cadmium oxide. <i>Inorganic Chemistry Communication</i> , 2003, 6, 896-899.	3.9	19
22	Direct synthesis of an heterometallic $\{Mn^{II}3Cr^{III}4\}$ wheel by decomposition of Reineckes salt. <i>Dalton Transactions</i> , 2010, 39, 2344.	3.3	18
23	A self-assembled octanuclear complex bearing the uncommon close-packed $\{Fe_{<sub>4</sub>}Mn_{<sub>4</sub>}(<sub>1/4</sub>O<sub>4</sub>)_{<sub>4</sub>}(<sub>1/4</sub>O)<sub>4</sub>\}$ molecular core. <i>Dalton Transactions</i> , 2015, 44, 14918-14924.	3.3	17
24	Catalytic Oxidations with Meta-Chloroperoxybenzoic Acid (m-CPBA) and Mono- and Polynuclear Complexes of Nickel: A Mechanistic Outlook. <i>Catalysts</i> , 2021, 11, 1148.	3.5	17
25	Supramolecular diversity and magnetic properties of novel heterometallic Cu(II)/Cr(III) complexes prepared from copper powder, Reineckes salt and ethylenediamine. <i>Inorganica Chimica Acta</i> , 2009, 362, 2237-2246.	2.4	15
26	Pronounced retention of stereoconfiguration upon sp <sup>3</sup> C H bonds hydroxylation of dimethylcyclohexanes and decahydronaphthalenes with m-CPBA oxidant and a Co-phthalocyanine catalyst. <i>Molecular Catalysis</i> , 2018, 459, 8-15.	2.0	15
27	Discussion of Planarity of Molecular Structures Using Novel Pentanuclear Cu/Ni Complexes as an Example. <i>Crystal Growth and Design</i> , 2012, 12, 3200-3208.	3.0	13
28	Copper(II) Complexes with Bulky N-Substituted Diethanolamines: High-Field Electron Paramagnetic Resonance, Magnetic, and Catalytic Studies in Oxidative Cyclohexane Amidation. <i>Inorganic Chemistry</i> , 2018, 57, 12384-12397.	4.0	13
29	Heterometallic Col <sup>II</sup> Zn <sup>II</sup> Schiff Base Catalyst for Mild Hydroxylation of C(sp <sup>3</sup> )H Bonds of Unactivated Alkanes: Evidence for Dual Mechanism Controlled by the Promoter. <i>Catalysts</i> , 2019, 9, 209.	3.5	13
30	Heterometallic Ni/Zn amine complexes possessing extended 2D and 3D hydrogen-bonded networks prepared from zinc oxide. <i>Inorganica Chimica Acta</i> , 2005, 358, 2725-2738.	2.4	12
31	Unique direct synthesis of cyanide-bridged Fe <sub>2</sub> Cu <sub>2</sub> molecular squares by destruction of sodium nitroprusside. <i>Inorganic Chemistry Communication</i> , 2009, 12, 890-894.	3.9	11
32	How to force a classical chelating ligand to a metal non-chelating bridge: the observation of a rare coordination mode of diethanolamine in the 1D complex $\{[Cu_{<sub>2</sub>}(Piv)_{<sub>4</sub>}(H_{<sub>3</sub>}tBuDea)](Piv)\}_{<sub>n</sub>}$ . <i>CrystEngComm</i> , 2014, 16, 775-783.	2.6	11
33	Details make the difference: a family of tetranuclear Cu <sup>II</sup> Mn <sup>III</sup> complexes with cube-like and double open cube-like cores. <i>Dalton Transactions</i> , 2017, 46, 7480-7494.	3.3	8
34	Heterometallic Cu <sup>II</sup> Fe <sup>II</sup> Mn <sup>III</sup> and Cu <sup>II</sup> Mn <sup>III</sup> alkoxo-bridged complexes revealing a rare hexanuclear M <sub>6</sub> ( $\frac{1}{4}$ X) <sub>7</sub> ( $\frac{1}{4}$ X) <sub>3</sub> molecular core. <i>Dalton Transactions</i> , 2018, 47, 10941-10952.	3.3	8
35	A Comparative Study of the Catalytic Behaviour of Alkoxy-1,3,5-Triazapentadiene Copper(II) Complexes in Cyclohexane Oxidation. <i>Inorganics</i> , 2019, 7, 82.	2.7	8
36	Novel H-Bonded Synthons in Copper Supramolecular Frameworks with Aminoethylpiperazine-Based Ligands. <i>Synthesis, Structure and Catalytic Activity. Materials</i> , 2020, 13, 5435.	2.9	8

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37	A three-dimensional framework of bis[tris(ethylenediamine)zinc] tetraiodocadmate diiodide assisted by $\text{N}\cdots\text{H}\cdots\text{I}$ hydrogen bonds. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2006, 62, m281-m283.	0.4	7
38	Specific features of the temperature characteristics of electrical conductivity and photoconductivity of polymer composites containing Cu(II)/Cr(III) heterometallic complexes. <i>Physics of the Solid State</i> , 2009, 51, 421-426.	0.6	7
39	An extremely rare example of asymmetric tetrานuclear core $\{\text{M}_4(\text{L}_4)_3\}_{\text{sub}}\text{X}\}_{\text{sub}}\text{2}\}_{\text{sub}}\{\text{L}_4\}_{\text{sub}}\text{4}\}_{\text{sub}}\}$ in a novel alkoxo-bridged heterometallic Cr/Cd complex. <i>Dalton Transactions</i> , 2010, 39, 1734-1739.	3.3	7
40	Homogeneous oxidation of $\text{C}\cdots\text{H}$ bonds with $\text{m}-\text{CPBA}$ catalysed by a Co/Fe system: mechanistic insights from the point of view of the oxidant. <i>Catalysis Science and Technology</i> , 2022, 12, 282-299.	4.1	7
41	New members of the polynuclear manganese family: $\text{Mn}^{\text{II}}_2\text{Mn}^{\text{III}}_2$ single-molecule magnets and $\text{Mn}^{\text{II}}_3\text{Mn}^{\text{III}}_8$ antiferromagnetic complexes. <i>Synthesis and magnetostructural correlations</i> . <i>Dalton Transactions</i> , 2020, 49, 13970-13985.	3.3	6
42	Electric and photoconductivity of polymer composites containing heteropolynuclear M(II)/Cr(III) complexes in the presence of additives with different electron donor-acceptor properties. <i>High Energy Chemistry</i> , 2008, 42, 227-231.	0.9	5
43	Sodium Nitroprusside as a Source of Metalloligand in Direct Synthesis of Cu/Fe Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 2316-2323.	1.2	5
44	A $\text{Cu}^{+2}\text{Ni}^{+2}\text{II}$ Complex with Ethylenediamine: Crystal Structure and Ferromagnetic Behaviour of an Aquâ€ Bridged Heterometallic Chain Containing Ambidentate $\text{Ni}(\text{OAc})_2$ Blocks. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3529-3535.	2.0	5
45	A novel $\text{o}-\text{vanillin Fe}(\text{III})$ complex catalytically active in $\text{C}\cdots\text{H}$ oxidation: exploring the magnetic exchange interactions and spectroscopic properties with different DFT functionals. <i>Dalton Transactions</i> , 2021, 50, 14782-14796.	3.3	5
46	Bis[ $\text{i}-\text{N}-(2\text{-aminoethyl})\text{ethane-1,2-diamine-}\text{N}^{\text{H}}\text{O}_2^-$ ] copper(II) tris[diamminetetrakis(thiocyanato- $\text{N}^{\text{H}}$ )chromate(III)] thiocyanate dimethyl sulfoxide tetradecasolvate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m1023-m1024.	0.2	4
47	Diammine(2,2â€²-bipyridine)bis(thiocyanato- $\text{N}^{\text{H}}$ )cobalt(III) diamminetetrakis(thiocyanato- $\text{N}^{\text{H}}$ )chromate(III) acetonitrile disolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m1021-m1022.	0.2	4
48	Tris(1,10-phenanthroline- $\text{N}^{\text{H}}$ )iron(II) bis[(1,10-phenanthroline- $\text{N}^{\text{H}}$ )tetrakis(thiocyanato- $\text{N}^{\text{H}}$ )chromate(III)] acetonitrile trisolvate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, m531-m532.	0.2	3
49	Specific features of the internal photoelectric effect of the Cu(II)/Fe(III) oxalate complex with ethylenediamine in an insulating polymer film. <i>Physics of the Solid State</i> , 2010, 52, 1303-1307.	0.6	2
50	Diaquabis(propane-1,3-diamine)copper(II) bis[diamminetetrakis(thiocyanato- $\text{N}^{\text{H}}$ )chromate(III)] dimethyl sulfoxide octasolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m849-m850.	0.2	2
51	Bis[ $\text{N}^{\text{H}}\text{C}_2\text{H}_4\text{CH}_2\text{CH}_2\text{NHCOCH}_2\text{CH}_2\text{CH}_2\text{NHCOCH}_2\text{CH}_2\text{CH}_2\text{N}^{\text{H}}$ ]bis[ $\text{N}^{\text{H}}\text{C}_2\text{H}_4\text{CH}_2\text{CH}_2\text{NHCOCH}_2\text{CH}_2\text{CH}_2\text{N}^{\text{H}}$ ]tetrakis(thiocyanato- $\text{N}^{\text{H}}$ )dichloromethane tetrasolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m1864-m1865.	0.2	2
52	Hexakis(dimethylformamide- $\text{O}$ )manganese(II) (dimethylformamide- $\text{O}$ )pentakis(thiocyanato- $\text{N}^{\text{H}}$ )chromate(III). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, m823-m823.	0.2	2
53	Tris(2,2â€²-bipyridine)copper(II) pentacyanidonitrosoferrate(II) methanol disolvate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m212-m213.	0.2	2
54	Unusual photoelectric properties of polymeric composites containing heteropolynuclear complexes of transition metals. <i>Semiconductors</i> , 2006, 40, 240-248.	0.5	1

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55	Tetrakis(1/42-cyanido-1/2C:N)dicyanidotetrakis[tris(2-aminoethyl)amine-1/3N,N,N,N,N,N]-tetracopper(II)iron(II)bis[pentacyanidonitrosoferrate(II)] hexahydrate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, m1266-m1267.	0.2	1
56	Electrical conductivity and photoconductivity of film materials based on heteropolynuclear Cu/Cd complexes and organic polymers. Theoretical and Experimental Chemistry, 2006, 42, 119-125.	0.8	0