

# Denis Korchagin

## List of Publications by Citations

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107  
ext. papers

969  
ext. citations

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#	Paper	IF	Citations
99	Antimony (V) Complex Halides: Lead-Free Perovskite-Like Materials for Hybrid Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701140	21.8	57
98	Single-Ion Magnet EtN[Co(hfac)] with Nonuniaxial Anisotropy: Synthesis, Experimental Characterization, and Theoretical Modeling. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 9696-9706	5.1	53
97	A density functional theory study of the zero-field splitting in high-spin nitrenes. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 064101	3.9	41
96	Evidence of field induced slow magnetic relaxation in cis-[Co(hfac)(HO)] exhibiting tri-axial anisotropy with a negative axial component. <i>Dalton Transactions</i> , <b>2017</b> , 46, 7540-7548	4.3	33
95	High-spin organic molecules with dominant spin-orbit contribution and unprecedentedly large magnetic anisotropy. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 064308	3.9	28
94	The First Conducting Spin-Crossover Compound Combining a Mn Cation Complex with Electroactive TCNQ Demonstrating an Abrupt Spin Transition with a Hysteresis of 50 K. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 10204-10213	4.8	27
93	Nitrosyl iron complexes with enhanced NO donating ability: synthesis, structure and properties of a new type of salt with the DNIC cations [Fe(SC(NH <sub>2</sub> ) <sub>2</sub> ) <sub>2</sub> (NO) <sub>2</sub> ] <sup>+</sup> . <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 10221030	3.6	26
92	Synthesis, structure, NO donor activity of iron-sulfur nitrosyl complex with 2-aminophenol-2-yl and its antiproliferative activity against human cancer cells. <i>Journal of Coordination Chemistry</i> , <b>2013</b> , 66, 3602-3618	1.6	24
91	Mesomeric tautomerism of ligand is a novel pathway for synthesis of cationic dinitrosyl iron complexes: Crystal structure and properties of nitrosyl complex with thiourea. <i>Inorganic Chemistry Communication</i> , <b>2014</b> , 49, 44-47	3.1	22
90	Field-induced single-ion magnet behaviour of a hexacoordinated Co(ii) complex with easy-axis-type magnetic anisotropy. <i>Dalton Transactions</i> , <b>2019</b> , 48, 6960-6970	4.3	18
89	A new member of the cationic dinitrosyl iron complexes family incorporating N-ethylthiourea is effective against human HeLa and MCF-7 tumor cell lines. <i>Journal of Coordination Chemistry</i> , <b>2016</b> , 69, 812-825	1.6	18
88	Influence of aromatic ligand on the redox activity of neutral binuclear tetranitrosyl iron complexes [Fe <sub>2</sub> (ESR) <sub>2</sub> (NO) <sub>4</sub> ]: experiments and quantum-chemical modeling. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 292-301	3.6	17
87	W-band EPR studies of high-spin nitrenes with large spin-orbit contribution to zero-field splitting. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 084313	3.9	17
86	New conformer of 2,4,6,8,10,12-hexanitro-2,4,6,8,10,12-hexaazaisowurtzitane (CL-20). Crystal and molecular structures of the CL-20 solvate with glyceryl triacetate. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 1394-1400	1.7	17
85	Photochemical generation of triplet-triplet nitrene pairs in aromatic diazide crystals. <i>Russian Chemical Bulletin</i> , <b>2008</b> , 57, 524-531	1.7	17
84	Heavy atom effect on magnetic anisotropy of matrix-isolated monobromine substituted septet trinitrene. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 2413-9	2.8	14
83	Matrix isolation ESR spectroscopy and magnetic anisotropy of D <sub>3h</sub> symmetric septet trinitrenes. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 204317	3.9	14

82	The first photochromic bimetallic assemblies based on Mn(III) and Mn(II) Schiff-base (salpn, dapsc) complexes and pentacyanonitrosylferrate. <i>CrystEngComm</i> , <b>2015</b> , 17, 3866-3876	3.3	13
81	Halogen atom effect on the magnetic anisotropy of pseudotetrahedral Co(II) complexes with a quinoline ligand. <i>Polyhedron</i> , <b>2015</b> , 102, 147-151	2.7	13
80	Structures of bis(1-methyltetrazole-5-thiolato)(tetranitrosyl)diiron and its intermediates in solutions. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2010</b> , 36, 876-886	1.6	13
79	Structure and properties of bis(1-phenyl-1h-tetrazole-5-thiolate)diiron tetranitrosyl. <i>Journal of Molecular Structure</i> , <b>2013</b> , 1041, 183-189	3.4	12
78	Some new trends in the design of single molecule magnets. <i>Pure and Applied Chemistry</i> , <b>2017</b> , 89, 1119-1143	11.4	11
77	The EPR Spectrum of Triplet Mesitylphosphinidene: Reassignment and New Assignment. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 7944-7947	16.4	11
76	Complexes of Cobalt(II) Iodide with Pyridine and Redox Active 1,2-Bis(arylimino)acenaphthene: Synthesis, Structure, Electrochemical, and Single Ion Magnet Properties. <i>Molecules</i> , <b>2020</b> , 25,	4.8	11
75	High-spin intermediates of the photolysis of 2,4,6-triazido-3-chloro-5-fluoropyridine. <i>Beilstein Journal of Organic Chemistry</i> , <b>2013</b> , 9, 733-42	2.5	11
74	Molecular and crystal structure of a cationic dinitrosyl iron complex with 1,3-dimethylthiourea. <i>Journal of Structural Chemistry</i> , <b>2017</b> , 58, 353-355	0.9	10
73	The cationic dinitrosyl iron complexes family with thiocarbamide derivatives: Synthesis, structure and properties in the solid state. <i>Polyhedron</i> , <b>2017</b> , 137, 72-80	2.7	10
72	Matrix isolation ESR spectroscopy and quantum chemical calculations on 5-methylhexa-1,2,4-triene-1,3-diyl, a highly delocalized triplet "hybrid" carbene. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 2032-9	3.6	10
71	Purely Spectroscopic Determination of the Spin Hamiltonian Parameters in High-Spin Six-Coordinated Cobalt(II) Complexes with Large Zero-Field Splitting. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 16434-16444	5.1	10
70	Polymorphism of bimolecular crystals of CL-20 with tris[1,2,5]oxadiazolo[3,4-b:3',4'-d:3?,4?-f]azepine-7-amine. <i>Russian Chemical Bulletin</i> , <b>2017</b> , 66, 694-701	1.7	9
69	Strain effects in electron spin resonance spectroscopy of quintet 2,6-bis(4-pyridylphenyl)-4-phenylpyridine. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 8419-25	2.8	9
68	Generation of quintet dinitrenes by low-temperature radiolysis of crystalline 2,4,6-triazido-3,5-dicyanopyridine. <i>Doklady Physical Chemistry</i> , <b>2008</b> , 418, 7-12	0.8	9
67	Synthesis, structure, NO-donor and redox activity of bis-(2-methylfuranethiolate)tetranitrosyl diiron. <i>Journal of Molecular Structure</i> , <b>2014</b> , 1075, 159-165	3.4	8
66	EPR studies on branched high-spin aryl nitrenes. <i>ChemPhysChem</i> , <b>2012</b> , 13, 2721-8	3.2	8
65	Synthesis and structure of asymmetric 2,4,6-triazidopyridines. <i>Chemistry of Heterocyclic Compounds</i> , <b>2011</b> , 47, 817-825	1.4	8

64	Synthesis, structure, and NO-donor activity of bis(5-nitropyridine-2-thiolato)tetranitrosyliron. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2012</b> , 38, 671-682	1.6	7
63	Electric Field Control of Spin States in Trigonal Two-Electron Quantum Dot Arrays and Mixed-Valence Molecules: I. Electronic Problem. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2451-2459	3.8	7
62	N-Substituted cyanacetohydrazides in the synthesis of 3,3-dialkyl-1,2,3,4-tetrahydroisoquinolines by Ritter reaction. <i>Chemistry of Heterocyclic Compounds</i> , <b>2017</b> , 53, 1114-1119	1.4	6
61	Thiacalix[4]arene-containing M <sub>2</sub> Ln <sub>2</sub> complexes (M = MnII, CoII; Ln = EuIII, PrIII): synthesis, structure, and magnetic properties. <i>Russian Chemical Bulletin</i> , <b>2014</b> , 63, 1465-1474	1.7	6
60	Magnetic exchange coupling in transition metal complexes with bidentate bridging ligands: a quantum chemical study. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 1040-1044	1.7	6
59	Molecular magnetic structures based on high-spin intermediates of low-temperature radiolysis of azido derivatives and possibilities of their use in undulator systems. <i>Russian Chemical Bulletin</i> , <b>2013</b> , 62, 255-264	1.7	5
58	Experimental and theoretical study of the influence of peripheral environment on magnetic properties of tetranuclear manganese skeleton in new representatives of calix[4]arene-containing [MnII <sub>2</sub> MnIII <sub>2</sub> ] clusters. <i>Journal of Molecular Structure</i> , <b>2015</b> , 1081, 217-223	3.4	5
57	The properties of quintet dinitrenes in 2,4,6-triazido-3,5-dichloropyridine crystals. <i>Russian Journal of Physical Chemistry A</i> , <b>2008</b> , 82, 1870-1877	0.7	5
56	Steric Heavy Atom Effect on Magnetic Anisotropy of Triplet Tribromophenyl Nitrenes. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 8931-8937	2.8	5
55	Fine-Tuning of Uniaxial Anisotropy and Slow Relaxation of Magnetization in the Hexacoordinate Co(II) Complexes with Acidoligands. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25957-25966	3.8	4
54	Mixed-Valence Magnetic Molecular Cell for Quantum Cellular Automata: Prospects of Designing Multifunctional Devices through Exploration of Double Exchange. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 25602-25614	3.8	4
53	Effect of polymorphic phase transitions on stability of energetic compounds. Thermal transformations of 2,4,6-tris(2,2,2-trinitroethylnitramino)-1,3,5-triazine. <i>Russian Chemical Bulletin</i> , <b>2020</b> , 69, 118-124	1.7	4
52	Reaction of enamino pyrrolidide and piperidide of 2,2-dimethyl-1,2,3,4-tetrahydrobenz[ <i>f</i> ]isoquinoline series with ninhydrin. <i>Chemistry of Heterocyclic Compounds</i> , <b>2016</b> , 52, 852-854	1.4	4
51	Reaction of ninhydrin with enamino amides of the 3,3-dimethyl-1,2,3,4-tetrahydroisoquinoline series and drotaverine. <i>Russian Journal of Organic Chemistry</i> , <b>2016</b> , 52, 1339-1343	0.7	4
50	Binuclear cyano-bridged complex derived from [MnIII(salpn)] and [FeIII(CN) <sub>6</sub> ]: Synthesis, structure and magnetic properties. <i>Inorganic Chemistry Communication</i> , <b>2016</b> , 64, 27-30	3.1	4
49	Molecular conformations and magnetic parameters of the compact trimethylenemethane-type triplet diradical. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 8065-72	2.8	4
48	Synthesis, structure, and properties of a new representative of the family of calix[4]arene-containing [MnII 2MnIII 2]-clusters. <i>Russian Chemical Bulletin</i> , <b>2013</b> , 62, 536-542	1.7	4
47	Magnetic anisotropy parameters of matrix-isolated septet 1,3,5-trinitreno-2,4,6-trichlorobenzene. <i>Russian Chemical Bulletin</i> , <b>2012</b> , 61, 2218-2224	1.7	4

46	Electronic and steric effect manifestations in the structure of 9-Azidoacridine. <i>Russian Journal of Physical Chemistry A</i> , <b>2006</b> , 80, S49-S54	0.7	4
45	Heterometallic Co(II)-Li carboxylate complexes with N-heterocyclic carbene, triphenylphosphine and pyridine: a comparative study of magnetic properties. <i>Mendeleev Communications</i> , <b>2021</b> , 31, 624-627	1.9	4
44	Unexpected effect of substituents on the zero-field splitting of triplet phenyl nitrenes. <i>Chemical Physics Letters</i> , <b>2016</b> , 659, 234-236	2.5	4
43	Electric Field Control of Spin States in Trigonal Two-Electron Quantum Dot Arrays and Mixed-Valence Molecules: II. Vibronic Problem. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2460-2473	3.8	4
42	Synthesis and structure of 6-azido-2,4-bis(2,2,2-trinitroethylamino)-1,3,5-triazine and its N-nitro derivatives. <i>Russian Chemical Bulletin</i> , <b>2018</b> , 67, 1891-1898	1.7	4
41	Synthesis, structure, biochemical, and docking studies of a new dinitrosyl iron complex [Fe <sub>2</sub> (ECS <sub>4</sub> H <sub>3</sub> SCH <sub>2</sub> ) <sub>2</sub> (NO) <sub>4</sub> ]. <i>Journal of Molecular Structure</i> , <b>2015</b> , 1092, 137-142	3.4	3
40	Magnetic anisotropy parameters of matrix-isolated septet 2,4,6-tribromo-1,3,5-trinitrobenzene. <i>Russian Chemical Bulletin</i> , <b>2015</b> , 64, 87-91	1.7	3
39	Cobalt(II) Complexes Based on Benzylmalonate Anions Exhibiting Field-Induced Single-Ion Magnet Slow Relaxation Behavior. <i>Crystals</i> , <b>2020</b> , 10, 1130	2.3	3
38	Reaction of (Z)-2-[3,3-dimethyl-3,4-dihydroisoquinolin-1(2H)-ylidene]-N-(2,4-dimethylphenyl)acetamides with ninhydrin. <i>Russian Journal of Organic Chemistry</i> , <b>2017</b> , 53, 790-792	0.7	3
37	Synthesis and structure of 2,6-diazidotrifluoropyridine N-oxide. <i>Russian Journal of Organic Chemistry</i> , <b>2011</b> , 47, 1323-1328	0.7	3
36	Barium(II)Chromium(III) Coordination Polymers Based on Dimethylmalonate Anions: Synthesis, Crystal Structure, Magnetic Properties, and EPR Spectra. <i>European Journal of Inorganic Chemistry</i> , <b>2020</b> , 2020, 4116-4126	2.3	3
35	Synthesis and structural study of 4,6-diazido-2-(2,2,2-trinitroethylamino)-1,3,5-triazine. <i>Russian Chemical Bulletin</i> , <b>2016</b> , 65, 2469-2474	1.7	3
34	Recent advances in chemistry of high-spin nitrenes. <i>Russian Chemical Reviews</i> , <b>2021</b> , 90, 39-69	6.8	3
33	Synthesis and structure of 3,4,5-triazidopyridine-2,6-dicarbonitrile possessing the record positive heat of formation. <i>Mendeleev Communications</i> , <b>2017</b> , 27, 116-118	1.9	2
32	EPR spectroscopy of multicomponent, multispin molecular system obtained by the photolysis of 2,4,6-triazido-3-cyano-5-fluoropyridine in solid argon. <i>Magnetic Resonance in Chemistry</i> , <b>2019</b> , 57, 472-478 <sup>1</sup>	2.1	2
31	Photochemical generation of high-spin nitrenes from 4,6-diazido-N-(4,6-diazido-1,3,5-triazin-2-yl)-1,3,5-triazin-2-amine in solid argon. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 377, 207-213	4.7	2
30	Synthesis, structure, and characterization of high-energy 4,6-diazido-N-(4,6-diazido-1,3,5-triazin-2-yl)-1,3,5-triazin-2-amine. <i>Chemistry of Heterocyclic Compounds</i> , <b>2017</b> , 53, 791-796	1.4	2
29	The electronic structure of 5-methylhexa-1,2,4-triene-1,3-diyl, the first representative of highly delocalized triplet ethynylvinylcarbenes, from ESR spectroscopy data and quantum chemical calculations. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 2180-2187	1.7	2

28	Ferromagnetism, paramagnetism, and thermally induced magnetism in photomagnetic Cr(III)/Mn(II) and Cr(III) oxalates with the 7-methyl-3,3-diphenyl-3H-pyrano[3,2-f]quinolinium cation. <i>Russian Chemical Bulletin</i> , <b>2010</b> , 59, 497-509	1.7	2
27	Investigation of the molecular and crystalline structure of 2,4,6-triazido-3-chloro-5-trifluoromethylpyridine and rotation barrier of the azidogroup around a C-N bond. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2008</b> , 72, 1185-1187	0.4	2
26	A Series of Novel Pentagonal-Bipyramidal Erbium(III) Complexes with Acyclic Chelating Schiff-Base Ligands: Synthesis, Structure, and Magnetism. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
25	Synthesis, structure, and the energetic properties of tetraazidopyridine-4-carbonitrile. <i>Chemistry of Heterocyclic Compounds</i> , <b>2017</b> , 53, 786-790	1.4	2
24	Can the Double Exchange Cause Antiferromagnetic Spin Alignment?. <i>Magnetochemistry</i> , <b>2020</b> , 6, 36	3.1	2
23	Single crystal X-ray diffraction study of 2,4,6-triazidopyridine and its 3,5-dibromosubstituted derivative. <i>Journal of Structural Chemistry</i> , <b>2016</b> , 57, 1195-1202	0.9	2
22	Nanoscale Visualization of Photodegradation Dynamics of MAPbI <sub>3</sub> Perovskite Films.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 2744-2749	6.4	2
21	Synthesis, Structure and Magnetic Properties of Mn <sub>2</sub> Tb <sub>2</sub> Tetranuclear Complex with p-tert-Butylthiacalix[4]arene. <i>Israel Journal of Chemistry</i> , <b>2020</b> , 60, 600-606	3.4	1
20	The Annelation for Enaminoureides of 3,3-Dimethyl-1,2,3,4-tetrahydroisoquinoline Series by Action of Oxalyl Chloride and Ninhydrin. <i>Russian Journal of Organic Chemistry</i> , <b>2018</b> , 54, 713-718	0.7	1
19	Molecular and crystal structure of 2,4,6-triazidopyrimidine and its chloro-substituted derivative. <i>Journal of Structural Chemistry</i> , <b>2017</b> , 58, 618-623	0.9	1
18	SQUID and ESR study of triplet paramagnetic centers in polyaniline. <i>Russian Chemical Bulletin</i> , <b>2012</b> , 61, 549-554	1.7	1
17	A quantum-chemical study on the selectivity of photolysis of azido groups in 2,4,6-triazido-3,5-dichloropyridine. <i>High Energy Chemistry</i> , <b>2009</b> , 43, 289-293	0.9	1
16	Crystal structure of Na <sub>4</sub> [Na <sub>2</sub> Cr <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>6</sub> ] · 10H <sub>2</sub> O. <i>Russian Journal of Inorganic Chemistry</i> , <b>2009</b> , 54, 226-231	2.3	1
15	Magnetic behavior of the novel pentagonal-bipyramidal erbium(III) complex (EtNH)[Er(HDAPS)Cl]: high-frequency EPR study and crystal-field analysis. <i>Dalton Transactions</i> , <b>2021</b> ,	4.3	1
14	Abrupt Spin-State Switching in Mn(III) Complexes with BPh Anion: Effect of Halide Substituents on Crystal Structure and Magnetic Properties. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 17609	4.8	1
13	Field-induced SIM behaviour of a Co(II) complex with a 1,1-Pdiacetylferrocene-derived ligand. <i>Dalton Transactions</i> , <b>2020</b> , 49, 15592-15596	4.3	1
12	Selective colorimetric sensor for cyanide anion based on 1-hydroxyanthraquinone. <i>Tetrahedron</i> , <b>2021</b> , 93, 132312	2.4	1
11	Synthesis, structure and properties of 2,4,6-triazidopyrimidine-5-carbonitrile. <i>Arkivoc</i> , <b>2018</b> , 2018, 39-50	0.9	1

10	Generation and direct EPR spectroscopic observation of triplet arylphosphinidenes: stabilisation internal rearrangements. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 27626-27631	3.6	o
9	Insight Into The Spin-Vibronic Problem of a Mixed Valence Magnetic Molecular Cell for Quantum Cellular Automata. <i>ChemPhysChem</i> , <b>2021</b> , 22, 1754-1768	3.2	o
8	Influence of Gamma Irradiation on the IR Spectra and Acute Toxicity of Polyvinyl Alcohol. <i>High Energy Chemistry</i> , <b>2021</b> , 55, 40-46	0.9	o
7	Field-induced single-ion magnet based on a quasi-octahedral Co(II) complex with mixed sulfur-oxygen coordination environment. <i>Dalton Transactions</i> , <b>2021</b> , 50, 13815-13822	4.3	o
6	The EPR Spectrum of Triplet Mesitylphosphinidene: Reassignment and New Assignment. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8052-8055	3.6	
5	Influence of peripheral substituents on the stability of sandwich-type complexes of crown ether-containing anthraquinoneimines. <i>Supramolecular Chemistry</i> , <b>2018</b> , 30, 918-928	1.8	
4	Unusual regioselectivity of C 1 C 70 (CF 3 ) 10 in the Diels-Alder reaction. <i>Journal of Fluorine Chemistry</i> , <b>2017</b> , 196, 81-87	2.1	
3	Structural Data and Luminescence Properties of Cu <sub>2</sub> $\times$ MnSnS <sub>4</sub> (0 Inorganic Materials, <b>2021</b> , 57, 987-991	0.9	
2	Photochemical cyclocondensation of 1-arylthio-2-azidoanthraquinones with phenols. <i>Russian Chemical Bulletin</i> , <b>2016</b> , 65, 1814-1819	1.7	
1	Synthesis and structure of 3,5-dinitro-N-(3,5-dinitrobenzoyl)benzamide. <i>Mendeleev Communications</i> , <b>2016</b> , 26, 386-387	1.9	