

# Denis Korchagin

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2490117/denis-korchagin-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99  
papers

799  
citations

15  
h-index

23  
g-index

107  
ext. papers

969  
ext. citations

2.8  
avg, IF

3.97  
L-index

#	Paper	IF	Citations
99	Nanoscale Visualization of Photodegradation Dynamics of MAPbI Perovskite Films.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 2744-2749	6.4	2
98	Heterometallic Coii-Lii 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
97	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
96	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
95	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
94	Structural Data and Luminescence Properties of Cu <sub>2</sub> [xMnSnS <sub>4</sub> (0 Inorganic Materials, <b>2021</b> , 57, 987-991	0.9	0
93	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	0
92	Selective colorimetric sensor for cyanide anion based on 1-hydroxyanthraquinone. <i>Tetrahedron</i> , <b>2021</b> , 93, 132312	2.4	1
91	Recent advances in chemistry of high-spin nitrenes. <i>Russian Chemical Reviews</i> , <b>2021</b> , 90, 39-69	6.8	3
90	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	0
89	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	0
88	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
87	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
86	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
85	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
84	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
83	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

82	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
81	Field-induced SIM behaviour of a Co(II) complex with a 1,1Pdiacetylferrocene-derived ligand. <i>Dalton Transactions</i> , <b>2020</b> , 49, 15592-15596	4.3	1
80	Can the Double Exchange Cause Antiferromagnetic Spin Alignment?. <i>Magnetochemistry</i> , <b>2020</b> , 6, 36	3.1	2
79	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	0
78	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
77	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	2.1	2
76	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
75	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
74	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
73	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
72	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
71	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
70	The Annelation for Enaminoures 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
69	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	
68	Synthesis, structure and properties of 2,4,6-triazidopyrimidine-5-carbonitrile. <i>Arkivoc</i> , <b>2018</b> , 2018, 39-50	0.9	1
67	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
66	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
65	Some new trends in the design of single molecule magnets. <i>Pure and Applied Chemistry</i> , <b>2017</b> , 89, 1119-1143	1.4	11

64	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
63	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
62	The EPR Spectrum of Triplet Mesitylphosphinidene: Reassignment and New Assignment. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8052-8055	3.6	
61	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
60	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
59	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
58	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
57	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
56	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
55	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
54	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	
53	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
52	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
51	Reaction of enamino pyrrolidide and piperidide of 2,2-dimethyl-1,2,3,4-tetrahydrobenz[f]isoquinoline series with ninhydrin. <i>Chemistry of Heterocyclic Compounds</i> , <b>2016</b> , 52, 852-854	1.4	4
50	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
49	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
48	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
47	Binuclear cyano-bridged complex derived from [MnIII(salpn)] and [FeIII(CN)6]: Synthesis, structure and magnetic properties. <i>Inorganic Chemistry Communication</i> , <b>2016</b> , 64, 27-30	3.1	4

46	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
45	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
44	Photochemical cyclocondensation of 1-arylthio-2-azidoanthraquinones with phenols. <i>Russian Chemical Bulletin</i> , <b>2016</b> , 65, 1814-1819	1.7	
43	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
42	Synthesis and structure of 3,5-dinitro-N-(3,5-dinitrobenzoyl)benzamide. <i>Mendeleev Communications</i> , <b>2016</b> , 26, 386-387	1.9	
41	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
40	Synthesis, structure, biochemical, and docking studies of a new dinitrosyl iron complex [Fe2(ESCH2)2(NO)4]. <i>Journal of Molecular Structure</i> , <b>2015</b> , 1092, 137-142	3.4	3
39	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
38	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
37	Nitrosyl iron complexes with enhanced NO donating ability: synthesis, structure and properties of a new type of salt with the DNIC cations [Fe(SC(NH2)2)2(NO)2]+. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 10222-1030	3.6	26
36	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
35	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
34	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 [MnII2 MnIII2] clusters. <i>Journal of Molecular Structure</i> , <b>2015</b> , 1081, 217-223	3.4	5
33	Influence of aromatic ligand on the redox activity of neutral binuclear tetranitrosyl iron complexes [Fe2(ESR)2(NO)4]: experiments and quantum-chemical modeling. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 292-301	3.6	17
32	Mesomeric tautomerism of ligand is a novel pathway for synthesis of cationic dinitrosyl iron complexes: X-ray structure and properties of nitrosyl complex with thiourea. <i>Inorganic Chemistry Communication</i> , <b>2014</b> , 49, 44-47	3.1	22
31	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
30	Thiacalix[4]arene-containing M2Ln2 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
29	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

28	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
27	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
26	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
25	Matrix isolation ESR spectroscopy and magnetic anisotropy of D3h symmetric septet trinitrenes. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 204317	3.9	14
24	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
23	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 <sup>24</sup>	1.6	24
22	SQUID and ESR study of triplet paramagnetic centers in polyaniline. <i>Russian Chemical Bulletin</i> , <b>2012</b> , 61, 549-554	1.7	1
21	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
20	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
19	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
18	EPR studies on branched high-spin aryl nitrenes. <i>ChemPhysChem</i> , <b>2012</b> , 13, 2721-8	3.2	8
17	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
16	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
15	Strain effects in electron spin resonance spectroscopy of quintet 2,6-bis(4-nitrenophenyl)-4-phenylpyridine. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 8419-25	2.8	9
14	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
13	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
12	Synthesis and structure of 2,6-diazidotrichloropyridine N-oxide. <i>Russian Journal of Organic Chemistry</i> , <b>2011</b> , 47, 1323-1328	0.7	3
11	Synthesis and structure of asymmetric 2,4,6-triazidopyridines. <i>Chemistry of Heterocyclic Compounds</i> , <b>2011</b> , 47, 817-825	1.4	8

10	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
9	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
8	Ferromagnetism, paramagnetism, and thermally induced magnetism in photomagnetic CrIII/MnII and CrIII 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
7	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
6	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	3.1	1
5	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
4	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
3	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
2	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
1	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