

Denis Korchagin

List of Publications by Year in descending order

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105
papers

1,145
citations

471371

17
h-index

501076

28
g-index

107
all docs

107
docs citations

107
times ranked

1052
citing authors

#	ARTICLE	IF	CITATIONS
1	Antimony (V) Complex Halides: Lead-Free Perovskite-Like Materials for Hybrid Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1701140.	10.2	72
2	Single-Ion Magnet $\text{Et}_4\text{N}[\text{Co}(\text{hfac})_3]$ with Nonuniaxial Anisotropy: Synthesis, Experimental Characterization, and Theoretical Modeling. <i>Inorganic Chemistry</i> , 2016, 55, 9696-9706.	1.9	66
3	The First Conducting Spin-Crossover Compound Combining a Mn^{III} Cation Complex with Electroactive TCNQ Demonstrating an Abrupt Spin Transition with a Hysteresis of 50 K. <i>Chemistry - A European Journal</i> , 2019, 25, 10204-10213.	1.7	46
4	A density functional theory study of the zero-field splitting in high-spin nitrenes. <i>Journal of Chemical Physics</i> , 2010, 133, 064101.	1.2	44
5	Evidence of field induced slow magnetic relaxation in $\text{cis}[\text{Co}(\text{hfac})_2(\text{H}_2\text{O})_2]$ exhibiting tri-axial anisotropy with a negative axial component. <i>Dalton Transactions</i> , 2017, 46, 7540-7548.	1.6	42
6	Nitrosyl iron complexes with enhanced NO donating ability: synthesis, structure and properties of a new type of salt with the DNIC cations $[\text{Fe}(\text{SC}(\text{NH}_2)_2)_2(\text{NO})]^{+}$. <i>New Journal of Chemistry</i> , 2015, 39, 1022-1030.	1.4	36
7	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> , 2013, 66, 3602-3618.	0.8	32
8	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> , 2014, 49, 44-47.	1.8	32
9	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> , 2016, 69, 812-825.	0.8	31
10	High-spin organic molecules with dominant spin-orbit contribution and unprecedentedly large magnetic anisotropy. <i>Journal of Chemical Physics</i> , 2012, 137, 064308.	1.2	30
11	Field-induced single-ion magnet behaviour of a hexacoordinated $\text{Co}(\text{ii})$ complex with easy-axis-type magnetic anisotropy. <i>Dalton Transactions</i> , 2019, 48, 6960-6970.	1.6	28
12	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> , 2019, 58, 16434-16444.	1.9	25
13	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> , 2020, 25, 2054.	1.7	25
14	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> , 2011, 60, 1394-1400.	0.4	20
15	Influence of aromatic ligand on the redox activity of neutral binuclear tetranitrosyl iron complexes $[\text{Fe}_2(\text{SR})_2(\text{NO})_4]$: experiments and quantum-chemical modeling. <i>New Journal of Chemistry</i> , 2014, 38, 292-301.	1.4	19
16	W-band EPR studies of high-spin nitrenes with large spin-orbit contribution to zero-field splitting. <i>Journal of Chemical Physics</i> , 2015, 143, 084313.	1.2	19
17	Heterometallic $\text{Co}^{\text{II}}\text{-Li}^{\text{I}}$ carboxylate complexes with N-heterocyclic carbene, triphenylphosphine and pyridine: a comparative study of magnetic properties. <i>Mendeleev Communications</i> , 2021, 31, 624-627.	0.6	19
18	Photochemical generation of triplet-triplet nitrene pairs in aromatic diazide crystals. <i>Russian Chemical Bulletin</i> , 2008, 57, 524-531.	0.4	18

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19	Structure and properties of bis(1-phenyl-1h-tetrazole-5-thiolate)diiron tetranitrosyl. Journal of Molecular Structure, 2013, 1041, 183-189.	1.8	18
20	The EPR Spectrum of Triplet Mesitylphosphinidene: Reassignment and New Assignment. Angewandte Chemie - International Edition, 2017, 56, 7944-7947.	7.2	18
21	Halogen atom effect on the magnetic anisotropy of pseudotetrahedral Co(II) complexes with a quinoline ligand. Polyhedron, 2015, 102, 147-151.	1.0	17
22	Matrix isolation ESR spectroscopy and magnetic anisotropy of D3h symmetric septet trinitrenes. Journal of Chemical Physics, 2013, 138, 204317.	1.2	16
23	Heavy Atom Effect on Magnetic Anisotropy of Matrix-Isolated Monobromine Substituted Septet Trinitrene. Journal of Physical Chemistry A, 2015, 119, 2413-2419.	1.1	16
24	Some new trends in the design of single molecule magnets. Pure and Applied Chemistry, 2017, 89, 1119-1143.	0.9	16
25	The cationic dinitrosyl iron complexes family with thiocarbamide derivatives: Synthesis, structure and properties in the solid state. Polyhedron, 2017, 137, 72-80.	1.0	16
26	Structures of bis(1-methyltetrazole-5-thiolato)(tetranitrosyl)diiron and its intermediates in solutions. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2010, 36, 876-886.	0.3	13
27	The first photochromic bimetallic assemblies based on Mn(III) and Mn(II) Schiff-base (salpn, dapsc) complexes and pentacyanonitrosylferrate. CrystEngComm, 2015, 17, 3866-3876.	1.3	13
28	High-spin intermediates of the photolysis of 2,4,6-triazido-3-chloro-5-fluoropyridine. Beilstein Journal of Organic Chemistry, 2013, 9, 733-742.	1.3	12
29	Molecular and crystal structure of a cationic dinitrosyl iron complex with 1,3-dimethylthiourea. Journal of Structural Chemistry, 2017, 58, 353-355.	0.3	12
30	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. Russian Chemical Bulletin, 2017, 66, 694-701.	0.4	12
31	Fine-Tuning of Uniaxial Anisotropy and Slow Relaxation of Magnetization in the Hexacoordinate Co(II) Complexes with Acidoligands. Journal of Physical Chemistry C, 2020, 124, 25957-25966.	1.5	12
32	Electric Field Control of Spin States in Trigonal Two-Electron Quantum Dot Arrays and Mixed-Valence Molecules: I. Electronic Problem. Journal of Physical Chemistry C, 2019, 123, 2451-2459.	1.5	11
33	Abrupt Spin State Switching in Mn(III) Complexes with BPh ₄ ⁻ Anion: Effect of Halide Substituents on Crystal Structure and Magnetic Properties.. Chemistry - A European Journal, 2021, 27, 17609-17619.	1.7	11
34	Nanoscale Visualization of Photodegradation Dynamics of MAPbI ₃ Perovskite Films. Journal of Physical Chemistry Letters, 2022, 13, 2744-2749.	2.1	11
35	Generation of quintet dinitrenes by low-temperature radiolysis of crystalline 2,4,6-triazido-3,5-dicyanopyridine. Doklady Physical Chemistry, 2008, 418, 7-12.	0.2	10
36	Strain Effects in Electron Spin Resonance Spectroscopy of Quintet 2,6-Bis(4-nitrophenyl)-4-phenylpyridine. Journal of Physical Chemistry A, 2011, 115, 8419-8425.	1.1	10

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37	Magnetic exchange coupling in transition metal complexes with bidentate bridging ligands: a quantum chemical study. <i>Russian Chemical Bulletin</i> , 2011, 60, 1040-1044.	0.4	10
38	Matrix isolation ESR spectroscopy and quantum chemical calculations on 5-methylhexa-1,2,4-triene-1,3-diyl, a highly delocalized triplet σ -carbene. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2032.	1.3	10
39	N-Substituted cyanacetohydrazides in the synthesis of 3,3-dialkyl-1,2,3,4-tetrahydroisoquinolines by Ritter reaction. <i>Chemistry of Heterocyclic Compounds</i> , 2017, 53, 1114-1119.	0.6	10
40	Synthesis and structure of asymmetric 2,4,6-triazidopyridines. <i>Chemistry of Heterocyclic Compounds</i> , 2011, 47, 817-825.	0.6	9
41	EPR Studies on Branched High-Spin Arylnitrenes. <i>ChemPhysChem</i> , 2012, 13, 2721-2728.	1.0	9
42	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> , 2013, 62, 536-542.	0.4	9
43	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> , 2020, 124, 25602-25614.	1.5	9
44	A Series of Novel Pentagonal-Bipyramidal Erbium(III) Complexes with Acyclic Chelating N3O2 Schiff-Base Ligands: Synthesis, Structure, and Magnetism. <i>Molecules</i> , 2021, 26, 6908.	1.7	9
45	Synthesis, structure, and NO-donor activity of bis(5-nitropyridine-2-thiolato)tetranitrosyliron. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2012, 38, 671-682.	0.3	8
46	Synthesis, structure, NO-donor and redox activity of bis-(2-methylfuranethiolate)tetranitrosyl diiron. <i>Journal of Molecular Structure</i> , 2014, 1075, 159-165.	1.8	8
47	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> , 2015, 1081, 217-223.	1.8	8
48	Cobalt(II) Complexes Based on Benzylmalonate Anions Exhibiting Field-Induced Single-Ion Magnet Slow Relaxation Behavior. <i>Crystals</i> , 2020, 10, 1130.	1.0	8
49	Recent advances in chemistry of high-spin nitrenes. <i>Russian Chemical Reviews</i> , 2021, 90, 39-69.	2.5	8
50	Field-induced single-ion magnet based on a quasi-octahedral Co(σ) complex with mixed sulfur-oxygen coordination environment. <i>Dalton Transactions</i> , 2021, 50, 13815-13822.	1.6	8
51	Field supported slow magnetic relaxation in a quasi-one-dimensional copper(σ) complex with a pentaheterocyclic triphenodioxazine. <i>New Journal of Chemistry</i> , 2021, 45, 21912-21918.	1.4	8
52	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> , 2020, 69, 118-124.	0.4	7
53	Selective colorimetric sensor for cyanide anion based on 1-hydroxyanthraquinone. <i>Tetrahedron</i> , 2021, 93, 132312.	1.0	7
54	Molecular Conformations and Magnetic Parameters of the Compact Trimethylenemethane-Type Triplet Diradical. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8065-8072.	1.1	6

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55	Thiacalix[4]arene-containing M ₂ Ln ₂ complexes (M = MnII, CoII; Ln = EuIII, PrIII): synthesis, structure, and magnetic properties. Russian Chemical Bulletin, 2014, 63, 1465-1474.	0.4	6
56	Can the Double Exchange Cause Antiferromagnetic Spin Alignment?. Magnetochemistry, 2020, 6, 36.	1.0	6
57	The properties of quintet dinitrenes in 2,4,6-triazido-3,5-dichloropyridine crystals. Russian Journal of Physical Chemistry A, 2008, 82, 1870-1877.	0.1	5
58	Molecular magnetic structures based on high-spin intermediates of low-temperature radiolysis of azido derivatives and possibilities of their use in undulator systems. Russian Chemical Bulletin, 2013, 62, 255-264.	0.4	5
59	Synthesis and structure of 6-azido-2,4-bis(2,2,2-trinitroethylamino)-1,3,5-triazine and its N-nitro derivatives. Russian Chemical Bulletin, 2018, 67, 1891-1898.	0.4	5
60	Steric Heavy Atom Effect on Magnetic Anisotropy of Triplet Tribromophenyl Nitrenes. Journal of Physical Chemistry A, 2018, 122, 8931-8937.	1.1	5
61	EPR spectroscopy of multicomponent, multispin molecular system obtained by the photolysis of 2,4,6-triazido-3-cyano-5-fluoropyridine in solid argon. Magnetic Resonance in Chemistry, 2019, 57, 472-478.	1.1	5
62	Electric Field Control of Spin States in Trigonal Two-Electron Quantum Dot Arrays and Mixed-Valence Molecules: II. Vibronic Problem. Journal of Physical Chemistry C, 2019, 123, 2460-2473.	1.5	5
63	Barium(II)-Chromium(III) Coordination Polymers Based on Dimethylmalonate Anions: Synthesis, Crystal Structure, Magnetic Properties, and EPR Spectra. European Journal of Inorganic Chemistry, 2020, 2020, 4116-4126.	1.0	5
64	Electronic and steric effect manifestations in the structure of 9-Azidoacridine. Russian Journal of Physical Chemistry A, 2006, 80, S49-S54.	0.1	4
65	Magnetic anisotropy parameters of matrix-isolated septet 1,3,5-trinitro-2,4,6-trichlorobenzene. Russian Chemical Bulletin, 2012, 61, 2218-2224.	0.4	4
66	Synthesis, structure, biochemical, and docking studies of a new dinitrosyl iron complex [Fe ₂ (μ ₄ -SC ₄ H ₃ SCH ₂) ₂ (NO) ₄]. Journal of Molecular Structure, 2015, 1092, 137-142.	1.8	4
67	Unexpected effect of substituents on the zero-field splitting of triplet phenyl nitrenes. Chemical Physics Letters, 2016, 659, 234-236.	1.2	4
68	Reaction of enamino pyrrolidide and piperidide of 2,2-dimethyl-1,2,3,4-tetrahydrobenz[f]isoquinoline series with ninhydrin. Chemistry of Heterocyclic Compounds, 2016, 52, 852-854.	0.6	4
69	Reaction of ninhydrin with enamino amides of the 3,3-dimethyl-1,2,3,4-tetrahydroisoquinoline series and drotaverine. Russian Journal of Organic Chemistry, 2016, 52, 1339-1343.	0.3	4
70	Binuclear cyano-bridged complex derived from [Mn III (salpn)] and [Fe III (CN) ₆]: Synthesis, structure and magnetic properties. Inorganic Chemistry Communication, 2016, 64, 27-30.	1.8	4
71	Generation and direct EPR spectroscopic observation of triplet arylphosphinidenes: stabilisation versus internal rearrangements. Physical Chemistry Chemical Physics, 2020, 22, 27626-27631.	1.3	4
72	Synthesis, structure, and the energetic properties of tetraazidopyridine-4-carbonitrile. Chemistry of Heterocyclic Compounds, 2017, 53, 786-790.	0.6	4

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73	Magnetic behavior of the novel pentagonal-bipyramidal erbium(Et_3NH) $[\text{Er}(\text{H}_2\text{DAPS})\text{Cl}_2]$ complex (Et ₃ NH)[Er(H ₂ DAPS)Cl ₂]: high-frequency EPR study and crystal-field analysis. Dalton Transactions, 2021, 50, 18143-18154.	1.6	4
74	Enhanced photostability of CsPbI ₂ Br-based perovskite solar cells through suppression of phase segregation using a zwitterionic additive. Sustainable Energy and Fuels, 0, .	2.5	4
75	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. Russian Chemical Bulletin, 2010, 59, 497-509.	0.4	3
76	Synthesis and structure of 2,6-diazidotrichloropyridine N-oxide. Russian Journal of Organic Chemistry, 2011, 47, 1323-1328.	0.3	3
77	Magnetic anisotropy parameters of matrix-isolated septet 2,4,6-tribromo-1,3,5-trinitrobenzene. Russian Chemical Bulletin, 2015, 64, 87-91.	0.4	3
78	Synthesis and structural study of 4,6-diazido-2-(2,2,2-trinitroethylamino)-1,3,5-triazine. Russian Chemical Bulletin, 2016, 65, 2469-2474.	0.4	3
79	Synthesis and structure of 3,4,5-triazidopyridine-2,6-dicarbonitrile possessing the record positive heat of formation. Mendeleev Communications, 2017, 27, 116-118.	0.6	3
80	Reaction of (Z)-2-[3,3-dimethyl-3,4-dihydroisoquinolin-1(2H)-ylidene]-N-(2,4-dimethylphenyl)acetamides with ninhydrin. Russian Journal of Organic Chemistry, 2017, 53, 790-792.	0.3	3
81	Field-induced SIM behaviour of a Co(Co) complex with a 1,1'-diacetylferrocene-derived ligand. Dalton Transactions, 2020, 49, 15592-15596.	1.6	3
82	Synthesis, Structure and Magnetic Properties of Mn ₂ Tb ₂ Tetranuclear Complex with β -Butylthiacalix[4]arene. Israel Journal of Chemistry, 2020, 60, 600-606.	1.0	3
83	3,6-bis(2,2,2-trinitroethylnitramino)-1,2,4,5-tetrazine. Structure and energy abilities as a component of solid composite propellants. Defence Technology, 2022, 18, 1148-1155.	2.1	3
84	Anionic dinitrosyl iron complexes – new nitric oxide donors with selective toxicity to human glioblastoma cells. Journal of Molecular Structure, 2022, 1266, 133506.	1.8	3
85	Investigation of the molecular and crystalline structure of 2,4,6-triazido-3-chloro-5-trifluoromethylpyridine and rotation barrier of the N^3 -azidogroup around a C-N bond. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 1185-1187.	0.1	2
86	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. Russian Chemical Bulletin, 2011, 60, 2180-2187.	0.4	2
87	Single crystal X-ray diffraction study of 2,4,6-triazidopyridine and its 3,5-dibromosubstituted derivative. Journal of Structural Chemistry, 2016, 57, 1195-1202.	0.3	2
88	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. Chemistry of Heterocyclic Compounds, 2017, 53, 791-796.	0.6	2
89	The Annelation for Enaminoureaides of 3,3-Dimethyl-1,2,3,4-tetrahydroisoquinoline Series by Action of Oxalyl Chloride and Ninhydrin. Russian Journal of Organic Chemistry, 2018, 54, 713-718.	0.3	2
90	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. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 377, 207-213.	2.0	2

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91	Structural Data and Luminescence Properties of Cu _{2-x} MnSnS ₄ (0 < x ≤ 0.10) Copper-Deficient Solid Solutions Based on the Cu ₂ MnSnS ₄ Quaternary Compound. <i>Inorganic Materials</i> , 2021, 57, 987-991.	0.2	2
92	The powder X-ray band electron paramagnetic resonance spectroscopy of septet pyridyl-2,4,6-trinitrene. <i>Magnetic Resonance in Chemistry</i> , 2022, 60, 829-835.	1.1	2
93	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> , 2009, 43, 289-293.	0.2	1
94	Crystal structure of Na ₄ [Na ₂ Cr ₂ (C ₂ O ₄) ₆] · 10H ₂ O. <i>Russian Journal of Inorganic Chemistry</i> , 2009, 54, 226-231.	0.3	1
95	SQUID and ESR study of triplet paramagnetic centers in polyaniline. <i>Russian Chemical Bulletin</i> , 2012, 61, 549-554.	0.4	1
96	Photochemical cyclocondensation of 1-arylthio-2-azidoanthraquinones with phenols. <i>Russian Chemical Bulletin</i> , 2016, 65, 1814-1819.	0.4	1
97	Molecular and crystal structure of 2,4,6-triazidopyrimidine and its chloro-substituted derivative. <i>Journal of Structural Chemistry</i> , 2017, 58, 618-623.	0.3	1
98	Synthesis, structure and properties of 2,4,6-triazidopyrimidine-5-carbonitrile. <i>Arkivoc</i> , 2018, 2018, 39-50.	0.3	1
99	Insight Into The Spin-Vibronic Problem of a Mixed Valence Magnetic Molecular Cell for Quantum Cellular Automata. <i>ChemPhysChem</i> , 2021, 22, 1754-1768.	1.0	1
100	Influence of Gamma Irradiation on the IR Spectra and Acute Toxicity of Polyvinyl Alcohol. <i>High Energy Chemistry</i> , 2021, 55, 40-46.	0.2	1
101	Unsymmetrical Structure of the Co(III) Complex with Bisheteroarylhydrazone as Hydrazone and Quinolone Tautomers Stabilized by Hydrogen Bond. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2022, 48, 362-370.	0.3	1
102	Synthesis and structure of 3,5-dinitro-N-(3,5-dinitrobenzoyl)benzamide. <i>Mendeleev Communications</i> , 2016, 26, 386-387.	0.6	0
103	The EPR Spectrum of Triplet Mesitylphosphinidene: Reassignment and New Assignment. <i>Angewandte Chemie</i> , 2017, 129, 8052-8055.	1.6	0
104	Unusual regioselectivity of C ₁ C ₇₀ (CF ₃) ₁₀ in the Diels-Alder reaction. <i>Journal of Fluorine Chemistry</i> , 2017, 196, 81-87.	0.9	0
105	Influence of peripheral substituents on the stability of sandwich-type complexes of crown ether-containing anthraquinoneimines. <i>Supramolecular Chemistry</i> , 2018, 30, 918-928.	1.5	0