Alyona A Starikova

List of Publications by Citations

111 papers	939 citations	16 h-index	23 g-index
116 ext. papers	1,144 ext. citations	2.3 avg, IF	5.12 L-index

#	Paper	IF	Citations
111	Redox Isomerism in Main-Group Chemistry: Tin Complex with o-Iminoquinone Ligands. *European Journal of Inorganic Chemistry*, **2018**, 2018, 1087-1092	2.3	39
110	Usefulness of the Aromaticity and Antiaromaticity Concepts for Clusters and Solid-State Compounds. *Chemistry - A European Journal*, **2018**, 24, 292-305	4.8	39
109	Computational design of valence tautomeric adducts of Co(II) diketonates with redox-active o-benzoquinone ligands. *Dalton Transactions*, **2013**, 42, 1726-34	4.3	39
108	Molecular design of the valence tautomeric mixed-ligand adducts of CoII diketonates with redox-active ligands. *Mendeleev Communications*, **2015**, 25, 83-92	1.9	38
107	Understanding the Origin of One- or Two-Step Valence Tautomeric Transitions in Bis(dioxolene)-Bridged Dinuclear Cobalt Complexes. *Journal of the American Chemical Society*, **2020**, 142, 10692-10704	16.4	36
106	Adducts of transition metal complexes with redox-active ligands: the structure and spin-state-switching rearrangements. *Russian Chemical Reviews*, **2018**, 87, 1049-1079	6.8	33
105	Valence tautomeric dinuclear adducts of Co(II) diketonates with redox-active diquinones for the design of spin qubits: computational modeling. *Dalton Transactions*, **2015**, 44, 1982-91	4.3	32
104	Valence tautomerism and spin crossover in pyridinophane-cobalt-dioxolene complexes: an experimental and computational study. *Dalton Transactions*, **2019**, 48, 11674-11689	4.3	28
103	Computational insight into magnetic behavior and properties of the transition metal complexes with redox-active ligands: a DFT approach. *Pure and Applied Chemistry*, **2018**, 90, 811-824	2.1	27
102	A DFT computational study of the magnetic behaviour of cobalt dioxolene complexes of tetraazamacrocyclic ligands. *Computational and Theoretical Chemistry*, **2018**, 1124, 15-22	2	25
101	Coordination capabilities of metal ions and steric features of organic ligands affecting formation of mono- or binuclear zinc(II) and cadmium(II) pivalates. *Polyhedron*, **2018**, 152, 61-72	2.7	24
100	Quantum chemical modeling of magnetically bistable metal coordination compounds. Synchronization of spin crossover, valence tautomerism and charge transfer induced spin transition mechanisms. *Dalton Transactions*, **2016**, 45, 12103-13	4.3	22
99	Quantum-chemical study of spin crossover in cobalt complexes with an o-benzoquinone ligand. *Doklady Chemistry*, **2016**, 467, 83-87	0.8	21
98	Theoretical modeling of valence tautomeric dinuclear cobalt complexes. Adducts of Co(II) diketonates with cyclic redox-active tetraone ligands. *Dalton Transactions*, **2015**, 44, 17819-28	4.3	19
97	Computational design of mixed-ligand adducts of Co aminovinyl ketonates with redox-active o-quinones and their derivatives. *Russian Chemical Bulletin*, **2014**, 63, 812-820	1.7	16
96	Cobalt diketonate adducts with redox-active diiminosuccinonitriles. *Mendeleev Communications*, **2014**, 24, 329-331	1.9	16
95	Halogen-free GeO conversion: electrochemical reduction vs. complexation in (DTBC)Ge[Py(CN)] (n = 02) complexes. *Dalton Transactions*, **2018**, 47, 17127-17133	4.3	16

94	Assessing the viability of extended nonmetal atom chains in M(n)F(4n+2) (M=S and Se). *Angewandte Chemie - International Edition*, **2015**, 54, 1476-80	16.4	15
93	Valence tautomeric complexes of cobalt diketonates with Diimines: A quantum-chemical study. *Doklady Chemistry*, **2011**, 440, 289-293	0.8	15
92	Valence Tautomerism in Main-Group Complexes? Computational Modeling of Si, Ge, Sn, and Pb Bischelates with o-Iminoquinone Ligands. *European Journal of Inorganic Chemistry*, **2016**, 2016, 252-258	2.3	14
91	Ferromagnetically Coupled Molecular Complexes with a CoII2GdIII Pivalate Core: Synthesis, Structure, Magnetic Properties and Thermal Stability. *ChemistrySelect*, **2019**, 4, 14261-14270	1.8	14
90	Quantum chemical modeling of pyrene-4,5-dione adducts with cobalt diketonates. *Computational and Theoretical Chemistry*, **2016**, 1076, 74-80	2	13
89	Computational Modeling of Spin-Crossover in Mixed-Ligand Binuclear Iron and Cobalt Complexes with 5,6-Bis(salicylideneimino)-1,10-Phenanthroline. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2019**, 45, 105-111	1.6	12
88	Binuclear nickel(II) complexes with 3,5-di-tert-butylbenzoate and 3,5-di-tert-butyl-4-hydroxybenzoate anions and 2,3-lutidine: the synthesis, structure, and magnetic properties. *Russian Chemical Bulletin*, **2016**, 65, 2812-2819	1.7	12
87	Europium and ytterbium complexes with o-iminoquinonato ligands: synthesis, structure, and magnetic behavior. *Dalton Transactions*, **2019**, 48, 3338-3348	4.3	11
86	Tetranuclear Cu(II) and Ni(II) complexes with 1,3,5-triketone ligands: A quantum-chemical simulation of exchange interactions. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2015**, 41, 487-495	1.6	11
85	Mononuclear Cobalt and Iron o-Quinone Complexes with Tetradentate N-Donor Bases: Structures and Properties. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2020**, 46, 193-213	1.6	11
84	The First Series of Heterometallic LnIII-VIV Complexes Based on Substituted Malonic Acid Anions: Synthesis, Structure and Magnetic Properties. *European Journal of Inorganic Chemistry*, **2018**, 2018, 5075-5090	2.3	11
83	Theoretical modeling of photocontrolled spin crossover in Fe(II) phenanthroline complexes. *Doklady Chemistry*, **2015**, 460, 5-9	0.8	10
82	Binuclear Di-o-Quinone Cobalt Complexes with the Acene Linker: Quantum Chemical Study of the Structures and Magnetic Properties. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2019**, 45, 411-419	1.6	10
81	Quantum chemical modeling of valence tautomeric adducts of CoII bischelates with pyrene-4,5-diimines. *Russian Chemical Bulletin*, **2017**, 66, 208-221	1.7	10
80	Molecular Structure and Photoluminescence Behavior of the Zn(II) Carboxylate Complex with Pyrazino[2,3-f][1,10]phenanthroline. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2020**, 46, 260-267	1.6	9
79	Easily electroreducible halogen-free germanium complexes with biologically active pyridines. *Inorganica Chimica Acta*, **2019**, 495, 119007	2.7	9
78	Spin crossover in monoadducts of Co(Salen) with pyridine and imidazole: a quantum chemical study. *Structural Chemistry*, **2014**, 25, 1865-1871	1.8	9
77	DFT Computational Design of a Ligand-Driven Light-Induced Mechanism for Spin-State Switching. *European Journal of Inorganic Chemistry*, **2013**, 2013, 4203-4219	2.3	9

76	Electronic structure and magnetic properties of the triangular nanographenes with radical substituents: a DFT study. *Physical Chemistry Chemical Physics*, **2020**, 22, 1288-1298	3.6	9
75	The structurally variable network of spin couplings and migrating paramagnetic centers in binuclear o-quinone Co complexes with biradical acene linkers: a computational DFT study. *Dalton Transactions*, **2018**, 47, 15948-15956	4.3	9
74	Valence-tautomeric adducts of Co(II) diketonates based on annelated di-o-quinones: Computer simulation. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2017**, 43, 197-205	1.6	8
73	Rational design of potential spin qubits manipulated by the valence tautomerism mechanism: quantum-chemical modeling of the trinuclear transition metal complexes with bischelate linkers. *New Journal of Chemistry*, **2017**, 41, 6497-6503	3.6	8
72	Light-controlled spin-state-switching rearrangements of transition metal complexes with photochromic ligands. *Pure and Applied Chemistry*, **2017**, 89, 985-1005	2.1	8
71	Dispersion interactions in oligomerization of metal diketonates: a DFT evaluation. *Chemical Papers*, **2018**, 72, 829-839	1.9	8
70	Quantum chemical study of binuclear adducts of cobalt azomethine complexes with pyrene-4,5,9,10-tetraimine. *Russian Chemical Bulletin*, **2017**, 66, 1543-1549	1.7	8
69	Computational design of magnetically active trinuclear heterometallic complexes on the basis of 1,3,5-triazapentadiene ligands. *Chemical Papers*, **2018**, 72, 821-828	1.9	7
68	Dual magnetic behavior of Co(II) and Fe(II) bis(chelate) adducts with Di-o-diiminobenzoquinone: Quantum chemical modeling. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2017**, 43, 718-726	1.6	7
67	Quantum-chemical modeling of metal coordination compounds with photoswitchable magnetic properties controlled by ligand rearrangements. *Theoretical and Experimental Chemistry*, **2011**, 46, 363-370	1.2	7
66	Computational modeling of spin crossover phenomenon in adducts of iron bis-chelates with o-diiminobenzoquinones. *Russian Chemical Bulletin*, **2016**, 65, 1464-1472	1.7	7
65	Structure and magnetic properties of di-o-semiquinone complexes of alkali metals with a bischelate linker: a quantum chemical study. *Mendeleev Communications*, **2016**, 26, 423-425	1.9	7
64	Computational insight into magnetic behaviour of cobalt tris(2-pyridylmethyl)amine complexes with dioxolenes incorporating stable radicals. *Chemical Physics Letters*, **2021**, 762, 138128	2.5	7
63	Bimetallic coordination compounds with 5,6-bis(salicylideneimino)-1,10-phenanthroline: quantum chemical study of spin transitions. *Russian Chemical Bulletin*, **2019**, 68, 725-731	1.7	6
62	Computational modeling of LD LISC and LIESST rearrangements of a Fe(II) complex with phenanthroline modified by photochromic chromene. *Doklady Chemistry*, **2016**, 468, 152-155	0.8	6
61	Reaction of 1-(oxiran-2-ylmethyl)-1H-indole-3-carboxaldehyde with amines. *Mendeleev Communications*, **2011**, 21, 231-233	1.9	6
60	o-Quinone phenalenyl derivatives as expedient ligands for the design of magnetically active metal complexes: A computational study. *Chemical Physics Letters*, **2020**, 740, 137073	2.5	6
59	Ambidentate and redox-properties of 4,7-phenanthroline-5,6-dione in cobalt complexes: a quantum chemical study. *Russian Chemical Bulletin*, **2018**, 67, 1182-1189	1.7	6

58	Electronic Structure and Magnetic Properties of o-Benzoquinone Iron Complexes with Tetraazamacrocyclic Ligands. *Journal of Structural Chemistry*, **2019**, 60, 1219-1225	0.9	5
57	Rational Design of Electronically Labile Dinuclear Fe and Co complexes with 1,10-Phenanthroline-5,6-Diimine: A DFT study. *Journal of Computational Chemistry*, **2019**, 40, 2284-2292	3.5	5
56	Computer Simulation of the Structure and Magnetic Properties of Cobalt Complexes with N-Substituted Pyridinophanes and Radical-Functionalized o-Benzoquinones. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2020**, 46, 371-378	1.6	5
55	Magnetic Properties of the Dicationic Iron o-Quinone Complexes with the Pyridinophane Ligands: A Quantum Chemical Study. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2019**, 45, 675-679	1.6	5
54	Computational modeling of chelating properties of quinoline spiropyrans. *Doklady Chemistry*, **2013**, 453, 263-267	0.8	5
53	Adducts of tetracoordinate cobalt(II) complexes and 1-(pyridin-2-yl)methanimine: Computational search for valence tautomeric systems. *Russian Journal of General Chemistry*, **2016**, 86, 859-864	0.7	5
52	Magnetic Properties of Adducts of Trinuclear Heterometallic Complexes with Acetonitrile: Quantum Chemical Study. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2018**, 44, 483-488	1.6	5
51	Trinuclear adducts of cobalt diketonates based on di-o-quinone with a bis(chelate) linker: Computational search for spin qubits. *Doklady Chemistry*, **2017**, 473, 57-62	0.8	4
50	Quantum chemical study of the adducts of azomethine cobalt complexes with acenaphthene-1,2-diimines. *Russian Journal of General Chemistry*, **2017**, 87, 98-106	0.7	4
49	Quantum chemical study of photomagnetic properties of Ni(II) monochelates with chromenes. *Doklady Chemistry*, **2015**, 462, 118-122	0.8	4
48	Computational modeling of structure and magnetic properties of dinuclear di-o-benzoquinone iron complexes with linear polycyclic linkers. *Russian Chemical Bulletin*, **2020**, 69, 203-211	1.7	4
47	Reactions of [(dpp-Bian)Ln(dme) 2] (Ln = Eu, Yb) with some oxidants. *Inorganic Chemistry Communication*, **2018**, 92, 40-45	3.1	4
46	Computational modeling of the dinuclear metal complexes with di-o-quinones comprising paramagnetic acene linker groups. *Computational and Theoretical Chemistry*, **2018**, 1138, 163-167	2	4
45	Heterospin magnetically active bimetallic Fe and Co complexes of aldiminato-functionalized catechol: a DFT study. *Structural Chemistry*, **2020**, 31, 37-46	1.8	4
44	Electronic Lability of Quinonoid-Bridged Dinuclear 3 d-Metal Complexes with Tetradentate N-Donor Bases. *European Journal of Inorganic Chemistry*, **2021**, 2021, 2684-2695	2.3	4
43	Computational modeling of cobalt diketonate adducts with o-benzoquinones incorporating organosilicon radicals. *Russian Chemical Bulletin*, **2021**, 70, 309-315	1.7	4
42	Assessing the Viability of Extended Nonmetal Atom Chains in MnF4n+2 (M=S and Se). *Angewandte Chemie*, **2015**, 127, 1496-1500	3.6	3
41	Adducts of manganese diketonates with redox-active ligands: Computational modeling of valence tautomeric systems. *Computational and Theoretical Chemistry*, **2015**, 1070, 132-142	2	3

40	Erbium Mixed-Ligand Diketiminato-Diamido Complex: Unusual Structure of Diamide Ligand. *ChemistrySelect*, **2018**, 3, 1262-1267	1.8	3
39	Computer simulation of the isomerization mechanism and spectral characteristics of spiro[1,3,4]oxadiazines. *Russian Chemical Bulletin*, **2016**, 65, 40-46	1.7	3
38	Features of the Molecular Structure and Luminescence of Rare-Earth Metal Complexes with Perfluorinated (Benzothiazolyl)phenolate Ligands. *Molecules*, **2019**, 24,	4.8	3
37	Compounds of potassium and tin(II) with diiminopyridine ligands: EPR spectroscopy and theoretical study. *Russian Journal of General Chemistry*, **2017**, 87, 2582-2588	0.7	3
36	Quantum chemical study of pyridine addition to Ni(II) diketonate complexes. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2010**, 36, 597-604	1.6	3
35	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	2.3	3
34	Supramolecular D?A-layered structures based on germanium complexes with 2,3-dihydroxynaphthalene and ,Sbidentate ligands.. *RSC Advances*, **2021**, 11, 21527-21536	3.7	3
33	Quantum-chemical study of spiro[indoline-2,2?-[2H]-chromenes] and their complexes with a silver cluster. *Doklady Chemistry*, **2017**, 474, 121-125	0.8	2
32	Dinuclear adducts of di-o-iminoquinone ligands with Co diketonates: computational insights into two-step valence tautomeric rearrangements. *Journal of Molecular Modeling*, **2017**, 23, 307	2	2
31	Quantum-chemical study of (Z)-6,8-di-tert-butyl-N-(4-methoxyphenyl)-3-((4-methoxyphenyl)imino)-3H-phenoxazine-2-amine complexation with cobalt bis(chelate)s. *Doklady Chemistry*, **2017**, 476, 215-218	0.8	2
30	Rare example of structurally characterized mononuclear N-heterocyclic carbene containing zinc carboxylate. *Mendeleev Communications*, **2020**, 30, 293-295	1.9	2
29	Computational Assessment of an Elusive Aromatic NP Molecule. *ACS Omega*, **2018**, 3, 286-291	3.9	2
28	Magnetic Properties of Acenes and Their o-Quinone Derivatives: Computer Simulation. *Doklady Chemistry*, **2018**, 478, 21-25	0.8	2
27	Quantum-chemical study of manganese(II) diketonate adducts with diimine. *Doklady Chemistry*, **2015**, 463, 211-214	0.8	2
26	Electronic structure and magnetic properties of pyridinophane complexes of iron with radical-bearing catecholates: a quantum chemical study. *Russian Chemical Bulletin*, **2021**, 70, 811-817	1.7	2
25	Acene-Linked Zethrenes and Bisphenalenyls: A DFT Search for Organic Tetraradicals. *Journal of Physical Chemistry A*, **2021**, 125, 6562-6570	2.8	2
24	Quantum-Chemical Study of Spin Transitions in Bimetallic FeM Complexes (M = Co, Ni, Cu, Zn) with the 1,10-Phenanthroline Linker. *Doklady Chemistry*, **2018**, 482, 181-184	0.8	2
23	Theoretical Modeling of the Structure of N-[2-[(Hydroxyalkylimino)Methyl]Phenyl]-4-Methylbenzene-Sulfamides and Their Mono- and Binuclear Copper(II) Complexes. *Journal of Structural Chemistry*, **2019**, 60, 365-372	0.9	1

22	Tetrahalocatecholate Rare Earth Complexes: Dinuclear Motifs with Intramolecular RE□□XC(Ar) Interactions. *Crystal Growth and Design*, **2020**, 20, 3396-3405	3.5	1
21	Frontispiece: Usefulness of the □Aromaticity and □Antiaromaticity Concepts for Clusters and Solid-State Compounds. *Chemistry - A European Journal*, **2018**, 24,	4.8	1
20	Dinuclear Cobalt and Iron Complexes with an Azomethine Derivative of 1,10-Phenanthroline: A Quantum-Chemical Study. *Doklady Chemistry*, **2019**, 487, 168-172	0.8	1
19	Computational modeling of mixed-ligand cobalt diketonate complexes with pyrene-4,5,9,10-tetraimine. *Doklady Chemistry*, **2017**, 475, 168-172	0.8	1
18	Quantum-Chemical Study of Cobalt Complexes with o-Quinones Modified with Silicon Triangulene Derivatives. *Doklady Chemistry*, **2020**, 494, 149-154	0.8	1
17	Electronic Structure and Magnetic Properties of Mixed-Ligand Cobalt Complexes Containing Organogermanium Triangulenes. *Russian Journal of General Chemistry*, **2020**, 90, 2312-2322	0.7	1
16	Quantum Chemical Study of the Structures and Stability of Copper(II) Bis(diketonate) Dimers. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2021**, 47, 174-179	1.6	1
15	Small anion-assisted electrochemical potential splitting in a new series of bistriarylamine derivatives: organic mixed valency across a urea bridge and zwitterionization. *Beilstein Journal of Organic Chemistry*, **2019**, 15, 2277-2286	2.5	1
14	Polynuclear architectures with cadmium and lithium ions based on the {Li2Cd2(O2CCMe3)6} fragment. *Journal of Solid State Chemistry*, **2021**, 294, 121842	3.3	1
13	Computational modeling of mixed-ligand cobalt complexes with o-quinone derivative of corannulene. *Russian Chemical Bulletin*, **2018**, 67, 1978-1984	1.7	1
12	DFT study of Raman scattering spectra of complexes of spiropyrans with the silver cluster. *Russian Chemical Bulletin*, **2018**, 67, 972-979	1.7	1
11	Quantum Chemical Study of Spin Transitions in the Bimetallic Fe/Co Complexes with the Bis(catecholate) Bridging Ligand. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2021**, 47, 601-609	1.6	1
10	O,N-Heterocyclic germylenes as efficient catalysts for hydroboration and cyanosilylation of benzaldehyde. *New Journal of Chemistry*,	3.6	1
9	Photochromic Properties and Surface Enhanced Raman Scattering Spectra of Indoline Spiropyran in Silver-Based Nanocomposite Films. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2018**, 124, 814-820	0.7	0
8	DFT computational insight into the mechanism of the monomer□trimer isomerism of Ni(II) bis-acetylacetonate. *Inorganica Chimica Acta*, **2021**, 517, 120183	2.7	0
7	Heterospin iron complexes with dioxolenes functionalized with stable radicals: quantum chemical study. *Russian Chemical Bulletin*, **2021**, 70, 2315-2323	1.7	0
6	o-Benzoquinone Cobalt Complexes Bearing Organosilicon Radicals: Quantum-Chemical Study. *Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya*, **2022**, 48, 233-241	1.6	0
5	Computer Design of Fe-M-Fe (M = Co, Ni, Cu, Zn) Complexes with Bis-Salicylaldiminate Linker Functionalized with 1,10-Phenanthroline. *Russian Journal of General Chemistry*, **2019**, 89, 451-458	0.7	

4	Quantum-Chemical Modeling of B32 Complexes with Nitrogen: Endo or Exo?. *Russian Journal of Inorganic Chemistry*, **2018**, 63, 902-905	1.5
3	Spin-State-Switching Rearrangements of Bis(dioxolene)-Bridged CrCo Complexes: A DFT Study. *European Journal of Inorganic Chemistry*, **2021**, 2021, 4113	2.3
2	Computational search for redox isomerism in Ge and Sn bis-chelates with □-diimine ligands. *Mendeleev Communications*, **2022**, 32, 49-51	1.9
1	A computational search for spin-crossover in bis(catecholate) diiron complexes. *Computational and Theoretical Chemistry*, **2022**, 1211, 113693	2