

Ilya Korolkov

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106
papers

1,137
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18
h-index

28
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110
ext. papers

1,401
ext. citations

2.3
avg, IF

4.52
L-index

#	Paper	IF	Citations
106	Formation of Inert Bi ₂ Se ₃ (0001) Cleaved Surface. <i>Crystal Growth and Design</i> , 2011 , 11, 5507-5514	3.5	97
105	Synthesis of Y ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphor in the Y ₂ O ₃ /Al metal/CeO ₂ ternary system. <i>Journal of Materials Science</i> , 2017 , 52, 13033-13039	4.3	69
104	Preparation of PET track-etched membranes for membrane distillation by photo-induced graft polymerization. <i>Materials Chemistry and Physics</i> , 2018 , 205, 55-63	4.4	44
103	Antimicrobial potential of ZnO, TiO ₂ and SiO ₂ nanoparticles in protecting building materials from biodegradation. <i>International Biodeterioration and Biodegradation</i> , 2020 , 146, 104821	4.8	43
102	Polymeric iodobismuthates {[Bi ₃ I ₁₀]} and {[BiI ₄]} with N-heterocyclic cations: promising perovskite-like photoactive materials for electronic devices. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5957-5966	13	40
101	The effect of oxidation pretreatment of polymer template on the formation and catalytic activity of Au/PET membrane composites. <i>Chemical Papers</i> , 2017 , 71, 2353-2358	1.9	34
100	A Novel Family of Polyiodo-Bromoantimonate(III) Complexes: Cation-Driven Self-Assembly of Photoconductive Metal-Polyhalide Frameworks. <i>Chemistry - A European Journal</i> , 2018 , 24, 14707-14711	4.8	33
99	Unprecedented bistability domain and interplay between spin crossover and polymorphism in a mononuclear iron(II) complex. <i>Dalton Transactions</i> , 2014 , 43, 3906-10	4.3	31
98	Optical Properties of TiO ₂ Films Deposited by Reactive Electron Beam Sputtering. <i>Journal of Electronic Materials</i> , 2017 , 46, 6089-6095	1.9	30
97	Luminescent properties of 4,4'-bipyridinium chlorobismuthate salt: Strong influence of solvation. <i>Inorganic Chemistry Communication</i> , 2015 , 54, 89-91	3.1	29
96	Binuclear Bi(III) halide complexes with 4,4'-ethylenepyridinium cations: luminescence tuning by reversible solvation. <i>New Journal of Chemistry</i> , 2015 , 39, 5529-5533	3.6	29
95	Bromobismuthates: Cation-induced structural diversity and Hirshfeld surface analysis of cation-anion contacts. <i>Polyhedron</i> , 2018 , 139, 282-288	2.7	25
94	Halobismuthates with bis(pyridinium)alkane cations: Correlations in crystal structures and optical properties. <i>Inorganica Chimica Acta</i> , 2018 , 469, 32-37	2.7	24
93	Modification of PET ion track membranes for membrane distillation of low-level liquid radioactive wastes and salt solutions. <i>Separation and Purification Technology</i> , 2019 , 227, 115694	8.3	23
92	Syntheses of [Rh(NH ₃) ₅ Cl][MCl ₆] (M = Re, Os, Ir) and Investigation of Their Thermolysis Products. Crystal Structure of [Rh(NH ₃) ₅ Cl][OsCl ₆]. <i>Journal of Structural Chemistry</i> , 2002 , 43, 488-494	0.9	22
91	Prototypical iron(ii) complex with 4-amino-1,2,4-triazole reinvestigated: an unexpected impact of water on spin transition. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4056-4068	3.6	20
90	Chlorobismuthates Trapping Dibromine: Formation of Two-Dimensional Supramolecular Polyhalide Networks with Br ₂ Linkers. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 4925-4929	2.3	20

89	Electronic Structure of Noncentrosymmetric β -GeO ₂ with Oxygen Vacancy: Ab Initio Calculations and Comparison with Experiment. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3644-3650	3.8	20
88	A mononuclear iron(II) complex: cooperativity, kinetics and activation energy of the solvent-dependent spin transition. <i>Dalton Transactions</i> , 2016 , 45, 107-20	4.3	18
87	Binuclear and polymeric bromobismuthate complexes: Crystal structures and thermal stability. <i>Polyhedron</i> , 2019 , 159, 318-322	2.7	18
86	Formation of SnO and SnO ₂ phases during the annealing of SnO(x) films obtained by molecular beam epitaxy. <i>Applied Surface Science</i> , 2020 , 512, 145735	6.7	17
85	1D and 2D Polybromotellurates(IV): Structural Studies and Thermal Stability. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 3264-3269	2.3	17
84	Terbium oxide films grown by chemical vapor deposition from terbium(III) dipivaloylmethanate. <i>Inorganic Materials</i> , 2014 , 50, 379-386	0.9	17
83	Copper nanotube composite membrane as a catalyst in Mannich reaction. <i>Chemical Papers</i> , 2018 , 72, 3189-3194	1.9	16
82	Growth and microstructure of heterogeneous crystal GaSe:InS. <i>CrystEngComm</i> , 2013 , 15, 1365	3.3	16
81	Metal solid solutions obtained by thermolysis of Pt and Re salts. Crystal structure of [Pt(NH ₃) ₄](ReO ₄) ₂ . <i>Journal of Structural Chemistry</i> , 2006 , 47, 489-498	0.9	16
80	MOCVD Synthesis of Terbium Oxide Films and their Optical Properties. <i>Chemical Vapor Deposition</i> , 2015 , 21, 150-155		14
79	Volatile Heterobimetallic Complexes from Pd and Cu β -diketonates: Structure, Magnetic Anisotropy, and Thermal Properties Related to the Chemical Vapor Deposition of Cu ₂ Pd Thin Films. <i>ChemPlusChem</i> , 2015 , 80, 1457-1464	2.8	13
78	Synthesis and crystal structure of mer-nitroaquatriamminenitrosylruthenium(II) nitrate [RuNO(NH ₃) ₃ (NO ₂)(H ₂ O)](NO ₃) ₂ . <i>Inorganic Chemistry Communication</i> , 2016 , 68, 1-3	3.1	13
77	Composition-sensitive growth kinetics and dispersive optical properties of thin Hf _x Ti _{1-x} O ₂ (0 \leq x \leq 1) films prepared by the ALD method. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 812-823	2.1	13
76	Volatile heterometallics: structural diversity of Pd-Pb β -diketonates and correlation with thermal properties. <i>Dalton Transactions</i> , 2017 , 46, 12245-12256	4.3	12
75	Volatile Pd β and Cu β heterometallic complexes: structure, properties, and trans-to-cis isomerization under cocrystallization of Pd and Cu β -diketonates with Pb hexafluoroacetylacetonate. <i>Journal of Coordination Chemistry</i> , 2015 , 68, 1890-1902	1.6	12
74	Synthesis, crystal structure, and properties of [Rh(NH ₃) ₅ Cl][ReBr ₆]. <i>Journal of Structural Chemistry</i> , 2005 , 46, 109-115	0.9	11
73	Isomerization as a tool to design volatile heterometallic complexes with methoxy-substituted β -diketonates. <i>Journal of Coordination Chemistry</i> , 2018 , 71, 2194-2208	1.6	11
72	Polyoxomolybdate-supported bismuth trihalides [Mo ₈ O ₂₆ (BiX ₃) ₂](4-) (X = Cl, Br, I): syntheses and study of polymorphism. <i>Inorganic Chemistry</i> , 2014 , 53, 6886-92	5.1	10

71	Thermolysis of [Pt(NH ₃) ₄][ReHlg ₆] (Hlg = Cl, Br). Structure refinement for [Pt(NH ₃) ₄][ReCl ₆]. <i>Journal of Structural Chemistry</i> , 2005 , 46, 479-487	0.9	10
70	Functionalization of PET Track-Etched Membranes by UV-Induced Graft (co)Polymerization for Detection of Heavy Metal Ions in Water. <i>Polymers</i> , 2019 , 11,	4.5	10
69	Synthesis of Octafluorobiphenyl-4,4'-dicarboxylic acid and photoluminescent compounds based thereon. <i>Russian Journal of General Chemistry</i> , 2015 , 85, 1617-1622	0.7	9
68	Structure and paramagnetic properties of tris -pivaloyltrifluoroacetate thulium(III) complexes with 18-crown-6 by X-ray analysis and NMR. <i>Polyhedron</i> , 2016 , 105, 178-185	2.7	9
67	Hydrophobization of PET track-etched membranes for direct contact membrane distillation. <i>Materials Research Express</i> , 2018 , 5, 065317	1.7	9
66	Structure and thermal properties of Pb(II) complex with functionalized Ediketonate. <i>Journal of Organometallic Chemistry</i> , 2016 , 819, 115-119	2.3	9
65	Magnetic properties and vapo-chromism of a composite on the base of an iron(II) spin crossover complex. <i>Inorganic Chemistry Communication</i> , 2019 , 105, 82-85	3.1	8
64	Oxalato complexes of Pd(II) with Co(II) and Ni(II) as single-source precursors for bimetallic nanoalloys. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 111-121	4.1	8
63	Complex salts of Pd(II) and Pt(II) with Co(II) and Ni(II) aqua-cations as single-source precursors for bimetallic nanoalloys and mixed oxides. <i>New Journal of Chemistry</i> , 2018 , 42, 8843-8850	3.6	8
62	Synthesis and crystal structure of nitrosoruthenium complexes cis-[Ru(NO)Py ₂ Cl ₂ (OH)] and cis-[Ru(NO)Py ₂ Cl ₂ (H ₂ O)]Cl. Photoinduced transformations of cis-[Ru(NO)Py ₂ Cl ₂ (OH)]. <i>New Journal of Chemistry</i> , 2016 , 40, 10267-10273	3.6	8
61	Crystal structure of [Ir(NH ₃) ₅ Cl] ₂ [OsCl ₆]Cl ₂ . Crystal-chemical analysis of the iridium-osmium system. <i>Journal of Structural Chemistry</i> , 2005 , 46, 1052-1059	0.9	8
60	Complexes of non-lacunary Keggin- and Dawson-type polyoxometalates with Pb(II): formation of 1D coordination polymers with different bonding modes. <i>New Journal of Chemistry</i> , 2016 , 40, 9981-9985	3.6	8
59	Kinetics of phase formation in the Ln ₂ O ₃ (Ln=La, Gd, Y) systems during oxide sulfidation in ammonium thiocyanate vapor. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1320-1329	3.8	7
58	A HPLC-ICP-AES technique for the screening of [XW ₁₁ NbO ₄₀] _n aqueous solutions. <i>New Journal of Chemistry</i> , 2018 , 42, 7940-7948	3.6	7
57	Features of the sol-gel process of formation of nanostructured gadolinium oxide. <i>Russian Journal of General Chemistry</i> , 2013 , 83, 1808-1814	0.7	7
56	Unexpected Polymorphism in Bromoantimonate(III) Complexes and Its Effect on Optical Properties. <i>Inorganic Chemistry</i> , 2021 , 60, 2797-2804	5.1	7
55	Structure and thermal properties of heterometallic complexes for chemical vapor deposition of Cu ₂ S films. <i>Journal of Structural Chemistry</i> , 2017 , 58, 1522-1529	0.9	6
54	Binuclear bromide complex of Bi(III): Thermally induced changes in optical properties. <i>Journal of Molecular Structure</i> , 2016 , 1112, 21-24	3.4	6

53	Crystal Structures of $[\text{Dy}(\text{dpm})_3]_2$ and $\text{Dy}(\text{dpm})_3$, Luminescent and X-Ray Fluorescent Study of Lanthanide(III) Tris-Divaloylmethanates. <i>Journal of Structural Chemistry</i> , 2018 , 59, 676-683	0.9	6
52	X-ray diffraction study of $[\text{Ru}(\text{NH}_3)_5\text{Cl}][\text{ReCl}_6]$ and $[\text{Ru}(\text{NH}_3)_5\text{Cl}]_2[\text{ReCl}_6]\text{Cl}_2$ and their thermolysis products. Crystal-chemical analysis of the Ru-Re system. <i>Journal of Structural Chemistry</i> , 2009 , 50, 120-126	0.9	6
51	Structure and Properties of $(\text{C}_4\text{N}_2\text{H}_{12})[\text{Pt}(\text{NO}_3)_6]$ Salt. <i>Journal of Structural Chemistry</i> , 2019 , 60, 1327-1334	1.3	5
50	Crystal structure of $[\text{Rh}(\text{H}_2\text{O})_5\text{Cl}](\text{C}_7\text{H}_7\text{O}_3\text{S})_2$ and $\text{Cs}[\text{Rh}(\text{H}_2\text{O})_5\text{NO}_3](\text{C}_7\text{H}_7\text{O}_3\text{S})_3\text{H}_2\text{O}$. <i>Journal of Structural Chemistry</i> , 2015 , 56, 1606-1612	0.9	5
49	Synthesis, structure, and properties of the thermolysis products of $[\text{Os}(\text{NH}_3)_5\text{Cl}][\text{ReCl}_6]$. <i>Journal of Structural Chemistry</i> , 2007 , 48, 379-382	0.9	5
48	Mononuclear Sb(V) Bromide Complexes with 3-Halopyridinium Cations: Synthesis, Structures, and Thermal Stability. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2019 , 45, 128-132	1.6	4
47	Membrane distillation of pesticide solutions using hydrophobic track-etched membranes. <i>Chemical Papers</i> , 2020 , 74, 3445-3453	1.9	4
46	Synthesis of the Ruthenium Nitrosyl Complex with Coordinated Ammonia and Pyridine at Room Temperature. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020 , 646, 58-64	1.3	4
45	Crystal Structure and Properties of Two Samarium β -diketonates. <i>Journal of Structural Chemistry</i> , 2018 , 59, 433-438	0.9	4
44	Crystal Structure and Properties of $[\text{Rh}_2(\text{H}_2\text{O})_8(\text{OH})_2](\text{NO}_3)_4\text{H}_2\text{O}$. <i>Journal of Structural Chemistry</i> , 2018 , 59, 664-668	0.9	4
43	Synthesis and characterization of polycrystalline CdSiP_2 . <i>Materials Research Express</i> , 2018 , 5, 056204	1.7	4
42	Methoxy-Substituted Transition Metal β -diketonates: Synthesis and Properties. <i>Journal of Structural Chemistry</i> , 2019 , 60, 1635-1647	0.9	4
41	Spin crossover in iron(II) hexafluorophosphate complexes with 2-(pyridin-2-yl)-4-(3,5-di-R-1H-pyrazol-1-yl)-6-methylpyrimidines. <i>Inorganica Chimica Acta</i> , 2017 , 467, 238-243	2.7	4
40	New praseodymium polyselenide $\text{PrSe}_{1.95}$: Synthesis and X-ray diffraction study of crystals. <i>Journal of Structural Chemistry</i> , 2015 , 56, 673-679	0.9	4
39	Phase transformations of the $\text{Re}_{0.3}\text{Ir}_{0.7}$ solid solution. <i>Journal of Structural Chemistry</i> , 2005 , 46, 474-478	0.9	4
38	Five new Sb(V) bromide complexes and their polybromide derivatives with pyridinium-type cations: Structures, thermal stability and features of halogen-halogen contacts in solid state. <i>Inorganica Chimica Acta</i> , 2020 , 502, 119278	2.7	4
37	Volatile zirconium complexes with sterically hindered β -diketonates: Structure and thermal properties. <i>Journal of Structural Chemistry</i> , 2017 , 58, 1530-1537	0.9	3
36	Volatile trinuclear heterometallic beta-diketonates: Structure and thermal properties related to the chemical vapor deposition of composite thin films. <i>Polyhedron</i> , 2020 , 191, 114806	2.7	3

35	New polymorphic modification of Y, Ho, Tm and Lu tris-2,2,6,6-tetramethyl-heptane-2,4-dionates: Structure, volatility and luminescence. <i>Polyhedron</i> , 2021 , 198, 115077	2.7	3
34	Cu ₂ ZnSnS ₄ crystal growth using an SnCl ₂ based flux. <i>CrystEngComm</i> , 2021 , 23, 1025-1032	3.3	3
33	Synthesis, thermal properties and photoisomerization of trans-[Ru(NO)Py ₂ Cl ₂ (H ₂ O)]H ₂ PO ₄ ·H ₂ O. <i>Journal of Chemical Sciences</i> , 2017 , 129, 441-448	1.8	2
32	Double complex salts containing [Pt(NO ₃) ₆] ²⁻ anion and Rh(III) complex cations: Synthesis, structure and utilisation for preparing (RhBt)/CeO ₂ catalysts. <i>Journal of Molecular Structure</i> , 2020 , 1211, 128108	3.4	2
31	Features of the Thermolysis of Fe(II), Co(II), Ni(II), and Cu(II) Salts of Maleic and Phthalic Acids with the Formation of Metal Nanoparticles. <i>Russian Journal of Physical Chemistry A</i> , 2019 , 93, 1327-1332	0.7	2
30	High-throughput powder X-ray diffraction, IR-spectroscopy and ion chromatography analysis of urinary stones: A comparative study. <i>Open Chemistry</i> , 2013 , 11, 2107-2119	1.6	2
29	New volatile zirconium(IV) complex with methoxy substituted βdiketonate. <i>Journal of Structural Chemistry</i> , 2017 , 58, 831-834	0.9	2
28	Films of (Gd _{1-x} Tbx) ₂ O _{2.5} Solid Solutions Produced by Oxide Sulfidation in NH ₄ SCN Vapor and Their Optical Properties. <i>Inorganic Materials</i> , 2020 , 56, 836-846	0.9	2
27	Secondary Coordination in the Structures of Zinc(II) and Manganese(II) Oxalatopalladates(II). <i>Journal of Structural Chemistry</i> , 2020 , 61, 719-726	0.9	2
26	MOCVD of Noble Metal Film Materials for Medical Implants: Microstructure and Biocompatibility of Ir and Au/Ir Coatings on TiNi. <i>Coatings</i> , 2021 , 11, 638	2.9	2
25	Crystal structure of [Pb ₃ (OH) ₄ Co(NO ₂) ₃](NO ₃)(NO ₂) ₂ ·2H ₂ O. <i>Journal of Structural Chemistry</i> , 2016 , 57, 625-627	0.9	2
24	Special Features of Localization of Eu ³⁺ Ion in the Matrix of (Gd _x Y _{1-x}) ₂ O ₃ : Eu ³⁺ Solutions During Sol-Gel Synthesis of the Luminophor. <i>Russian Journal of General Chemistry</i> , 2018 , 88, 992-999	0.7	2
23	Homo- and heterometallic iodobismuthates(III) with 1,3,5-trimethylpyridinium cation: Preparation and features of optical behavior. <i>Polyhedron</i> , 2022 , 216, 115720	2.7	2
22	Obtaining and Characterizing Silver-Borbitan Monooleate Nanocomposite and Conducting Films Based on It. <i>Russian Journal of Physical Chemistry A</i> , 2019 , 93, 717-722	0.7	1
21	Structure and Properties of the Cs ₂ Mo ₂ W _x O ₇ Solid Solution. <i>Journal of Structural Chemistry</i> , 2019 , 60, 952-960	0.9	1
20	Synthesis and Crystal Structure of Chloride complexes of Rh(III) Diammino- and Monoammino Series. <i>Journal of Structural Chemistry</i> , 2019 , 60, 1482-1488	0.9	1
19	Structure, Volatility, and Luminescence of Phenanthroline Adducts with Lanthanide Tris-Dipivaloylmethanates. <i>Journal of Structural Chemistry</i> , 2020 , 61, 101-108	0.9	1
18	Platinum(IV) Nitrate Complexes with 1,10-Phenanthroline. <i>Russian Journal of Inorganic Chemistry</i> , 2020 , 65, 1552-1557	1.5	1

17	MICROSTRUCTURE OF IRIIDIUM ENRICHED Pt _x Ir(1-x) FILMS PREPARED BY CHEMICAL VAPOR DEPOSITION. <i>Journal of Structural Chemistry</i> , 2021 , 62, 1447-1456	0.9	1
16	Study of structural and optical properties of a dual-band material based on tin oxides and GeSiSn compounds. <i>Applied Surface Science</i> , 2022 , 573, 151615	6.7	1
15	The influence of the solutions pH on the microstructure of hydrogels of yttrium and europium oxohydrates prepared via the sol-gel method. <i>Russian Journal of General Chemistry</i> , 2016 , 86, 224-230	0.7	1
14	One-Dimensional Supramolecular Hybrid Iodobismuthate (1-EtPy) ₃ {[Bi ₂ I ₉](I ₂) _{0.75} }: Structural Features and Theoretical Studies of I ₂ Non-Covalent Interactions. <i>Journal of Cluster Science</i> , 2021 , 32, 787-791	3	1
13	Mixed-Ligand Iridium(III) Nitro Complexes with Phenantroline. <i>Journal of Structural Chemistry</i> , 2019 , 60, 640-646	0.9	0
12	ADDUCTS OF PLATINUM(IV) NITRATE COMPLEXES WITH 15-CROWN-5 ETHER. <i>Journal of Structural Chemistry</i> , 2020 , 61, 1422-1431	0.9	0
11	Preparation of a rhodium(III) cis-diaquacomplex by protic acid induced oxalate-release from mer-[Rh(C ₂ O ₄)Cl(py) ₃]. <i>New Journal of Chemistry</i> , 2018 , 42, 19637-19643	3.6	0
10	Gold-Induced Crystallization of Thin Films of Amorphous Silicon Suboxide. <i>Technical Physics Letters</i> , 2021 , 47, 726-729	0.7	0
9	Halogen-rich halorhenates(IV): (Me ₄ N) ₂ {[ReX ₆](X ₂)} (X = Cl, Br). <i>Polyhedron</i> , 2022 , 221, 115876	2.7	0
8	New gadolinium polyselenide GdSe _{1.89(6)} in the PbFCl matlockite structure type. <i>Journal of Structural Chemistry</i> , 2016 , 57, 1150-1157	0.9	
7	A study of the structure and properties of mixed-ligand Cu(II) complexes with hexafluoroacetylacetone and methyl-, phenyl-ketoimines. <i>Journal of Structural Chemistry</i> , 2013 , 54, 123-128	0.9	0
6	MONITORING COMPOSITION AND STRUCTURE OF MOCVD ZrO ₂ -BASED MULTICOMPONENT FILMS BY INNOVATIVE MIXED METAL-ORGANIC PRECURSORS. <i>Journal of Structural Chemistry</i> , 2020 , 61, 1729-1739	0.9	
5	Structural and Optical Properties of a Hybrid Material Based on Tin Oxides and Multilayer Periodic Structures with Pseudomorphic GeSiSn Layers. <i>Russian Physics Journal</i> , 1	0.7	
4	Thermal properties of indium tris-dipivaloylmethanate as a volatile precursor for indium oxide materials. <i>Vacuum</i> , 2022 , 197, 110856	3.7	
3	NEW SUBSTITUTED DIKETONATES OF Al(III), Fe(III), AND Cu(II). <i>Journal of Structural Chemistry</i> , 2020 , 61, 1615-1623	0.9	
2	STRUCTURE OF COMPOUNDS DERIVED FROM [Au(Dien)Cl]Cl ₂ AND PLATINUM CHLORIDE COMPLEXES. <i>Journal of Structural Chemistry</i> , 2021 , 62, 1270-1278	0.9	
1	CRYSTAL TEXTURE AND MECHANICAL STRESSES IN VO ₂ FILMS OBTAINED BY MOCVD. <i>Journal of Structural Chemistry</i> , 2022 , 63, 235-241	0.9	