

# Nikolai T Kuznetsov

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3622659/nikolai-t-kuznetsov-publications-by-citations.pdf>

**Version:** 2024-04-28

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.

245  
papers

3,248  
citations

26  
h-index

39  
g-index

256  
ext. papers

3,824  
ext. citations

2.2  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
245	Derivatives of closo-decaborate anion [B <sub>10</sub> H <sub>10</sub> ] <sup>2-</sup> with exo-polyhedral substituents. <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 2089-2127	1.5	96
244	Promising ultra-high-temperature ceramic materials for aerospace applications. <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 1669-1693	1.5	90
243	Derivatives of the closo-dodecaborate anion and their application in medicine. <i>Russian Chemical Bulletin</i> , <b>2002</b> , 51, 1362-1374	1.7	76
242	Coordination compounds of electron-deficient boron cluster anions B <sub>n</sub> H <sub>2n</sub> <sup>-</sup> (n = 6, 10, 12). <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 2148-2202	1.5	66
241	Specifics of pyrohydrolytic and solid-phase syntheses of solid solutions in the (MgGa <sub>2</sub> O <sub>4</sub> ) <sub>x</sub> (MgFe <sub>2</sub> O <sub>4</sub> ) <sub>1-x</sub> system. <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 427-429	1.5	65
240	Systematical analysis of chemical methods in metal nanoparticles synthesis. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2016</b> , 50, 59-66	0.9	62
239	Silver and Copper Complexes with closo-Polyhedral Borane, Carborane and Metallocarborane Anions: Synthesis and X-ray Structure. <i>Crystals</i> , <b>2016</b> , 6, 60	2.3	57
238	Synthesis of highly dispersed super-refractory tantalum-zirconium carbide Ta <sub>4</sub> ZrC <sub>5</sub> and tantalum-hafnium carbide Ta <sub>4</sub> HfC <sub>5</sub> via sol-gel technology. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 1681-1687	1.5	54
237	Nucleophilicity of Oximes Based upon Addition to a Nitrilium closo-Decaborate Cluster. <i>Organometallics</i> , <b>2016</b> , 35, 3612-3623	3.8	44
236	Mechanism of generation of closo-decaborato amidrazones. Intramolecular non-covalent B⋯N(Ph) interaction determines stabilization of the configuration around the amidrazone CN bond. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 8693-8703	3.6	43
235	Theoretical QTAIM, ELI-D, and Hirshfeld surface analysis of the Cu-(H)B interaction in [Cu <sub>2</sub> (bipy) <sub>2</sub> B <sub>10</sub> H <sub>10</sub> ]. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 13138-50	2.8	38
234	Synthesis, Vaporization and Thermodynamic Properties of Superfine Nd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> and Gd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> . <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 4636-4644	2.3	38
233	The system LaNi <sub>5</sub> H <sub>2</sub> . <i>Journal of the Less Common Metals</i> , <b>1988</b> , 144, 23-30		38
232	Low-temperature synthesis of nanodispersed titanium, zirconium, and hafnium carbides. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 661-672	1.5	35
231	1,3-Dipolar Cycloaddition of Nitrones to a Nitrile Functionality in closo-Decaborate Clusters: A Novel Reactivity Mode for the Borylated C≡N Group. <i>Organometallics</i> , <b>2012</b> , 31, 1716-1724	3.8	33
230	Gas-sensing properties of nanostructured CeO <sub>2</sub> -xZrO <sub>2</sub> thin films obtained by the sol-gel method. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 1023-1032	5.7	33
229	An interaction of the functionalized closo-borates with albumins: The protein fluorescence quenching and calorimetry study. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 51-60	3.8	31

228	Low-temperature synthesis of TaC through transparent tantalum-carbon containing gel. <i>Inorganic Materials</i> , <b>2010</b> , 46, 495-500	0.9	31
227	Synthesis and Composition of Compounds Containing the B <sub>10</sub> H <sub>11</sub> Anion. <i>Inorganic Materials</i> , <b>2004</b> , 40, 144-146	0.9	31
226	Synthesis and reactivity of closo-decaborate anion derivatives with multiple carbon-oxygen bonds. <i>Inorganic Chemistry Communication</i> , <b>2014</b> , 50, 28-30	3.1	30
225	Borylated Tetrazoles from Cycloaddition of Azide Anions to Nitrilium Derivatives of closo-Decaborate Clusters. <i>Organometallics</i> , <b>2013</b> , 32, 6576-6586	3.8	29
224	Properties of Mg(Fe <sub>1-x</sub> Ga <sub>x</sub> ) <sub>2</sub> O <sub>4</sub> + solid solutions in stable and metastable states. <i>Inorganic Materials</i> , <b>2010</b> , 46, 429-433	0.9	29
223	Synthesis, vaporization and thermodynamics of ceramic powders based on the Y <sub>2</sub> O <sub>3</sub> -rO <sub>2</sub> -BiFO <sub>2</sub> system. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 153, 78-87	4.4	28
222	The new approach to formation of exo boron-oxygen bonds from the decahydro-closo-decaborate(2-) anion. <i>Polyhedron</i> , <b>2015</b> , 101, 215-222	2.7	27
221	Reactivity of boron cluster anions [B <sub>10</sub> H <sub>10</sub> ] <sup>2-</sup> , [B <sub>10</sub> Cl <sub>10</sub> ] <sup>2-</sup> and [B <sub>12</sub> H <sub>12</sub> ] <sup>2-</sup> cobalt(II)/cobalt(III) complexation with 1,10-phenanthroline. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 428, 154-162	2.7	27
220	Reactions of nucleophilic addition of primary amines to the nitrilium derivative of the closo-decaborate anion [2-B <sub>10</sub> H <sub>9</sub> (N <sup>+</sup> CCH <sub>3</sub> )] <sup>-</sup> . <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 847-855	1.5	27
219	Behavior of a sample of the ceramic material HfB <sub>2</sub> -SiC (45 vol %) in the flow of dissociated air and the analysis of the emission spectrum of the boundary layer above its surface. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 1360-1373	1.5	26
218	Production of ultrahigh temperature composite materials HfB <sub>2</sub> -SiC and the study of their behavior under the action of a dissociated air flow. <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 1269-1276	1.5	26
217	HfB <sub>2</sub> -SiC (45 vol %) ceramic material: Manufacture and behavior under long-term exposure to dissociated air jet flow. <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 1298-1311	1.5	26
216	Specific interactions in metal salts and complexes with cluster boron anions B <sub>n</sub> H <sub>2n</sub> <sup>-</sup> (n = 6, 10, 12). <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 687-697	1.5	26
215	Copper(I), copper(II), and heterovalent copper(I,II) complexes with 1,10-phenanthroline and the closo-decaborate anion. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 430, 74-81	2.7	25
214	Nucleophilic addition of alcohols to the C-N multiple bonds of the nitrilium substituent in the anion [2-B <sub>10</sub> H <sub>9</sub> (N <sup>+</sup> CMe)] <sup>-</sup> . <i>Russian Chemical Bulletin</i> , <b>2009</b> , 58, 1694-1700	1.7	25
213	HfB <sub>2</sub> -SiC (10-20 vol %) ceramic materials: Manufacture and behavior under long-term exposure to dissociated air streams. <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 1361-1382	1.5	24
212	Coupling of Azomethine Ylides with Nitrilium Derivatives of closo-Decaborate Clusters: A Synthetic and Theoretical Study. <i>ChemPlusChem</i> , <b>2012</b> , 77, 1075-1086	2.8	24
211	Vaporization and thermodynamic properties of lanthanum hafnate. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 2348-2355	5.7	24

210	Preparation of porous SiC-ceramics by sol-gel and spark plasma sintering. <i>Journal of Sol-Gel Science and Technology</i> , <b>2017</b> , 82, 748-759	2.3	23
209	Behavior of HfB <sub>2</sub> -SiC (10, 15, and 20 vol %) ceramic materials in high-enthalpy air flows. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 1203-1218	1.5	23
208	Secondary interactions in decachloro-closo-decaborates R <sub>2</sub> [B <sub>10</sub> Cl <sub>10</sub> ] (R = Et <sub>3</sub> NH <sup>+</sup> , Ph <sub>4</sub> P <sup>+</sup> , and [Ag(NH <sub>3</sub> ) <sub>2</sub> ] <sup>+</sup> ): 35Cl NQR, PW-DFT, and X-ray studies. <i>Inorganica Chimica Acta</i> , <b>2016</b> , 447, 22-31	2.7	23
207	Isomerism in complexes with the decahydro-closo-decaborate anion. <i>Polyhedron</i> , <b>2016</b> , 105, 205-221	2.7	22
206	Nickel(II) complexes with nitrogen-containing derivatives of the closo-decaborate anion. <i>Russian Chemical Bulletin</i> , <b>2014</b> , 63, 187-193	1.7	22
205	Redox, complexation, and substitution reactions in [Cu <sub>2</sub> B <sub>10</sub> H <sub>10</sub> ]-2,2'-bipyridylamine-CH <sub>3</sub> CN system. <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 657-663	1.5	22
204	First heterovalent copper complex with 2,2'-dipyridyl and closo-decaborate anion B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> . <i>Doklady Chemistry</i> , <b>2011</b> , 437, 79-81	0.8	22
203	exo-Polyhedral substitution in B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> anion induced by redox reactions in the Cu(I)-B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> -L system (L = bipy, bpa). <i>Doklady Chemistry</i> , <b>2011</b> , 440, 253-256	0.8	22
202	Reversible single-crystal-to-single-crystal photoisomerization of a silver(I) macropolyhedral borane. <i>CrystEngComm</i> , <b>2015</b> , 17, 8870-8875	3.3	21
201	Synthesis and structure of disubstituted closo-decaborate anion derivatives Ph <sub>4</sub> P(2,6-B <sub>10</sub> H <sub>8</sub> O <sub>2</sub> CCH <sub>3</sub> ) and 1,2-B <sub>10</sub> H <sub>8</sub> Phen with bifunctional O,O' and N,N' substituents. <i>Doklady Chemistry</i> , <b>2013</b> , 452, 240-244	0.8	21
200	Synthesis of ultrafine yttrium aluminum garnet using sol-gel technology. <i>Russian Journal of Inorganic Chemistry</i> , <b>2012</b> , 57, 1521-1528	1.5	21
199	Synthesis of Finely Dispersed La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> , La <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> , Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> and Gd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> Oxides. <i>Mendeleev Communications</i> , <b>2013</b> , 23, 17-18	1.9	21
198	Ink-jet printing of a TiO <sub>2</sub> /ZrO <sub>2</sub> thin film for oxygen detection using a solution of metal alkoxoacetylacetates. <i>Thin Solid Films</i> , <b>2019</b> , 670, 46-53	2.2	21
197	Pen plotter printing of Co <sub>3</sub> O <sub>4</sub> thin films: features of the microstructure, optical, electrophysical and gas-sensing properties. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 832, 154957	5.7	20
196	Synthesis of amino-containing meso-aryl-substituted porphyrins and their conjugates with the closo-decaborate anion. <i>Russian Chemical Bulletin</i> , <b>2014</b> , 63, 194-200	1.7	20
195	Synthesis of ultrafine refractory oxides zirconia-hafnia-yttria by sol-gel technology. <i>Russian Journal of Inorganic Chemistry</i> , <b>2012</b> , 57, 307-312	1.5	20
194	Synthesis of nanocrystalline silicon carbide using the sol-gel technique. <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 1143-1151	1.5	20
193	Interaction between a Decahydro-closo-Decaborate(2-) Anion and Aliphatic Carboxylic Acids. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2001</b> , 27, 613-619	1.6	20

192	Microstructural, electrophysical and gas-sensing properties of CeO <sub>2</sub> /ZrO <sub>2</sub> thin films obtained by the sol-gel process. <i>Ceramics International</i> , <b>2020</b> , 46, 121-131	5.1	20
191	Production of 8%Y <sub>2</sub> O <sub>3</sub> -92%ZrO <sub>2</sub> (8YSZ) thin films by sol-gel technology. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 795-803	1.5	19
190	Oxygen detection using nanostructured TiO <sub>2</sub> thin films obtained by the molecular layering method. <i>Applied Surface Science</i> , <b>2019</b> , 463, 197-202	6.7	19
189	Pen plotter printing of ITO thin film as a highly CO sensitive component of a resistive gas sensor. <i>Talanta</i> , <b>2021</b> , 221, 121455	6.2	19
188	Solid-State Reactions of Eicosaborate [B <sub>10</sub> H <sub>10</sub> ] Salts and Complexes. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16819-16828	4.8	19
187	Tetranuclear hydroxo-bridged copper(II) cluster of the Z type: Preparation and structural and magnetic characterization of [(Cu <sub>4</sub> bipy <sub>4</sub> (OH) <sub>4</sub> (B <sub>10</sub> H <sub>10</sub> ) <sub>2</sub> (DMSO) <sub>2</sub> ]. <i>Doklady Chemistry</i> , <b>2012</b> , 442, 1-3	0.8	18
186	Experimental and theoretical determination of the saturation vapor pressure of silicon in a wide range of temperatures. <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 2073-2088	1.5	18
185	Anionic silver(I) complexes with closo-dodecaborate anion. <i>Russian Journal of Inorganic Chemistry</i> , <b>2008</b> , 53, 1024-1033	1.5	18
184	Boron Cluster Anions [B <sub>n</sub> H <sub>n</sub> ] <sub>2</sub> (n = 10, 12) in Reactions of Iron(II) and Iron(III) Complexation with 2,2'-Bipyridyl and 1,10-Phenanthroline. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2014</b> , 640, 2149-2160	1.3	17
183	anti-syn and anti-anti coordination of the bridging CO <sub>2</sub> group in [Cu <sub>2</sub> (Phen) <sub>4</sub> (CO <sub>3</sub> )]B <sub>10</sub> H <sub>10</sub> binuclear complexes: Synthesis, structure, and magnetic properties. <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 1527-1535	1.5	17
182	Cleavage of the cyclic substituent in the [B <sub>10</sub> H <sub>9</sub> O <sub>2</sub> C <sub>4</sub> H <sub>8</sub> ] <sup>2-</sup> , [B <sub>10</sub> H <sub>9</sub> OC <sub>4</sub> H <sub>8</sub> ] <sup>-</sup> and [B <sub>10</sub> H <sub>9</sub> OC <sub>5</sub> H <sub>10</sub> ] <sup>-</sup> anions upon the interaction with negatively charged N-nucleophiles. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 1549-1554	1.5	17
181	Nickel(II) complexes with boron cluster anions [B <sub>n</sub> H <sub>n</sub> ] <sub>2</sub> (n = 10, 12) and azaheterocyclic ligands L (L = Bipy, Phen, BPA, and DAB). <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 302-313	1.5	17
180	closo-Dodecaborate Intercalated Yttrium Hydroxide as a First Example of Boron Cluster Anion-Containing Layered Inorganic Substances. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 3421-3428	5.1	16
179	Complexation and exopolyhedral substitution of the terminal hydrogen atoms in the decahydro-closo-decaborate anion in the presence of cobalt(II). <i>Polyhedron</i> , <b>2019</b> , 162, 65-70	2.7	16
178	Synthesis, vaporization, and thermodynamics of ultrafine Nd <sub>2</sub> Hf <sub>2</sub> O <sub>7</sub> powders. <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 1-8	1.5	16
177	Cobalt(II) and nickel(II) complexes with 1-methyl-2-pyridin-2-yl-1H- and 1-methyl-2-phenyliminomethyl-1H-benzimidazoles and the closo-decaborate anion. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 817-822	1.5	15
176	Reactions of the [B <sub>10</sub> H <sub>10</sub> ] <sub>2</sub> <sup>2-</sup> anion with nucleophiles in the presence of halides of group IIIA and IVB elements. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 776-785	1.5	15
175	Synthesis and magnetic properties of iron(II) closo-borate complexes with tris(3,5-dimethylpyrazol-1-yl)methane. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 786-789	1.5	15

174	Glycolate synthesis of ultrafine lanthanum zirconate. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 1452-1458	1.5	15
173	The chemistry of the octahydrotriborate anion [B <sub>3</sub> H <sub>8</sub> ] <sup>-</sup> . <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 1539-1555	1.5	15
172	Selectivity problem of SnO <sub>2</sub> based materials in the presence of water vapors. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 170, 51-59	8.5	15
171	Secondary interactions in decachloro-closo-decaborates of alkali metals M <sub>2</sub> [B <sub>10</sub> Cl <sub>10</sub> ] (M = K <sup>+</sup> and Cs <sup>+</sup> ): 35Cl NQR and X-ray studies. <i>Polyhedron</i> , <b>2016</b> , 117, 561-568	2.7	15
170	[Co(solv) <sub>6</sub> ][B <sub>10</sub> H <sub>10</sub> ] (solv = DMF and DMSO) for low-temperature synthesis of borides. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 1125-1134	1.5	15
169	Behavior of HfB <sub>2</sub> /0 vol% SiC UHTC obtained by sol-gel approach in the supersonic airflow. <i>Journal of Sol-Gel Science and Technology</i> , <b>2019</b> , 92, 386-397	2.3	14
168	Preparation of high-porous SiC ceramics from polymeric composites based on diatomite powder. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 733-744	4.3	14
167	Sol-gel made titanium dioxide nanostructured thin films as gas-sensing materials for the detection of oxygen. <i>Mendeleev Communications</i> , <b>2018</b> , 28, 164-166	1.9	14
166	Coordination compounds with the general formula trans-[M(18-crown-6)(C <sub>5</sub> H <sub>9</sub> O <sub>2</sub> F <sub>6</sub> ) <sub>2</sub> ] as structural-thermochemical analogs. The complexes trans-[Pb(18-crown-6)(C <sub>5</sub> H <sub>9</sub> O <sub>2</sub> F <sub>6</sub> ) <sub>2</sub> ] and trans-[Ba(18-crown-6)(C <sub>5</sub> H <sub>9</sub> O <sub>2</sub> F <sub>6</sub> ) <sub>2</sub> ]. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2006</b> , 32, 693-700	1.6	14
165	Copper(I) coordination compounds with closo-dodecaborate anion. <i>Russian Journal of Inorganic Chemistry</i> , <b>2006</b> , 51, 1723-1727	1.5	14
164	Preparation of nanostructured thin films of yttrium aluminum garnet (Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> ) by Sol-Gel technology. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 667-673	1.5	13
163	[2,6(9)-B <sub>10</sub> H <sub>8</sub> (O) <sub>2</sub> CCH <sub>3</sub> ] <sup>-</sup> and [2,7(8)-B <sub>10</sub> H <sub>8</sub> (OC(O)CH <sub>3</sub> ) <sub>2</sub> ] <sup>-</sup> derivatives in synthesis of position isomers of the [B <sub>10</sub> H <sub>8</sub> (OC(O)CH <sub>3</sub> )(OH)] <sub>2</sub> <sup>-</sup> anion with the 2,6(9)- and 2,7(8)-arrangement of functional groups. <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 1247-1258	1.5	13
162	Study of the synthesis of nanocrystalline mixed tantalum-zirconium carbide. <i>Physics of Atomic Nuclei</i> , <b>2015</b> , 78, 1357-1365	0.4	13
161	Vaporization of molecular titanium coordination compounds— structural-thermochemical approach. <i>Thermochimica Acta</i> , <b>2002</b> , 381, 173-180	2.9	13
160	Calculation model for the enthalpy of formation of multicomponent hydrides. <i>Journal of the Less Common Metals</i> , <b>1985</b> , 105, 221-230		13
159	Push-pull alkenes bearing closo-decaborate cluster generated via nucleophilic addition of carbanions to borylated nitrilium salts. <i>Inorganica Chimica Acta</i> , <b>2018</b> , 471, 372-376	2.7	13
158	Liquid-phase synthesis and physicochemical properties of xerogels, nanopowders and thin films of the CeO <sub>2</sub> /ZrO <sub>3</sub> system. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 1061-1069	1.5	13
157	Synthesis and structure of [NiL <sub>6</sub> ][B <sub>10</sub> H <sub>10</sub> ] (L = DMF or DMSO) as precursors for solid-phase synthesis of nickel(II) coordination compounds. <i>Inorganica Chimica Acta</i> , <b>2016</b> , 451, 129-134	2.7	13

156	Influence of the composition of $[Ti(OC_4H_9)_4]_x [O_2C_5H_7]_x$ complexes and hydrolysis conditions on the synthesis of titania by sol-gel technology. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 929-939	1.5	12
155	Electrophilicity of aliphatic nitrilium closo-decaborate clusters: Hyperconjugation provides an unexpected inverse reactivity order. <i>Journal of Organometallic Chemistry</i> , <b>2018</b> , 870, 97-103	2.3	12
154	Structure and magnetic properties of trinuclear copper(II) complex $[Cu_3(bipy)_6(\beta-CO_3)]_2[B_{12}H_{12}]_2 \cdot 4.5DMF \cdot 2H_2O$ . <i>Inorganica Chimica Acta</i> , <b>2018</b> , 479, 249-253	2.7	12
153	A new method of synthesis of the $B_3H_8^-$ anion. <i>Russian Journal of Inorganic Chemistry</i> , <b>2012</b> , 57, 471-473	1.5	12
152	New positional isomer of the $[Ag_2(Ph_3P)_4B_{10}H_{10}]$ complex: Coordination of the closo-decaborate anion through the $1\alpha$ and $5\beta$ ( $3\alpha$ ) edges. <i>Doklady Chemistry</i> , <b>2011</b> , 437, 63-65	0.8	12
151	The Mechanism of Acid-Catalyzed Nucleophilic Substitution in Decahydro-closo-Decaborate(2-) Anions. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2001</b> , 27, 619-621	1.6	12
150	Fused 1,2-Diboraoxazoles Based on $-Decaborate$ Anion-Novel Members of Diboroheterocycle Class. <i>Molecules</i> , <b>2021</b> , 26,	4.8	12
149	Gas-sensing properties of nanostructured $TiO_2-ZrO_2$ thin films obtained by the sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , <b>2019</b> , 92, 415-426	2.3	11
148	New method for preparation of sulfanyl derivative of closo-decaborate anion $[B_{10}H_9SH]^{2-}$ <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 198-202	1.5	11
147	Glycol-citrate synthesis of fine-grained oxides $La_2-xGdxZr_2O_7$ and preparation of corresponding ceramics using FAST/SPS process. <i>Ceramics International</i> , <b>2018</b> , 44, 7647-7655	5.1	11
146	Theoretical study of molecular hydrogen elimination from the undecahydrodecaborate monoanion $[B_{10}H_{11}]^-$ Exopolyhedral substitution intermediates: $[B_{10}H_9]^-$ monoanion and neutral $[B_{10}H_{10}]$ cluster. <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 706-712	1.5	11
145	Determination of the saturation vapor pressure of silicon by Knudsen cell mass spectrometry. <i>Russian Journal of Inorganic Chemistry</i> , <b>2012</b> , 57, 219-225	1.5	11
144	New methods of preparation of hydroxy-closo-decaborates $[B_{10}H_{10}(\text{OH})_n]^{2-}$ ( $n = 1, 2$ ). <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 1395-1399	1.5	11
143	Gel formation during sol-gel synthesis of silicon dioxide. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 1444-1451	1.5	11
142	Hydride compounds of zinc. <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 1665-1678	1.5	11
141	First example of the ribbed-functionalized iron(ii) clathrochelate with six pendant closo-borate substituents. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 2518-2521	1.7	11
140	The isomorphous substitution of $2H^+$ for the $Cu^{2+}$ cation in the complex of bis(aminoguanidine)copper(II): Crystal structures of $(Cu_{0.61}H_{0.78}Ag_{0.2})B_{12}H_{12}$ and $(HAg)_2B_{12}H_{12}$ . <i>Crystallography Reports</i> , <b>2009</b> , 54, 831-836	0.6	11
139	Silicon carbide transport during carbothermic reduction of $SiO_2$ : Thermodynamic evaluation and experimental study. <i>Inorganic Materials</i> , <b>2007</b> , 43, 700-703	0.9	11

138	Compounds of Undecahydrodecaborate Anion B <sub>10</sub> H <sub>11</sub> <sup>-</sup> <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2001</b> , 27, 622-624	1.6	11
137	The effects of subsonic and supersonic dissociated air flow on the surface of ultra-high-temperature HfB <sub>2</sub> -30 vol% SiC ceramics obtained using the sol-gel method. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 1093-1102	6	11
136	Microplotter-Printed On-Chip Combinatorial Library of Ink-Derived Multiple Metal Oxides as an "Electronic Olfaction" Unit. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 56135-56150	9.5	11
135	Chemoresistive gas-sensitive ZnO/Pt nanocomposites films applied by microplotter printing with increased sensitivity to benzene and hydrogen. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2021</b> , 271, 115233	3.1	11
134	Effective binding of perhalogenated closo-borates to serum albumins revealed by spectroscopic and ITC studies. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1141, 75-80	3.4	10
133	Ligand metathesis in copper(I) complex [Cu <sub>2</sub> (CH <sub>3</sub> CN) <sub>4</sub> [B <sub>10</sub> H <sub>10</sub> ]] to form [Cu <sub>2</sub> L <sub>4</sub> [B <sub>10</sub> H <sub>10</sub> ]] (L = Ph <sub>3</sub> P, 5Nphen). <i>Polyhedron</i> , <b>2019</b> , 169, 144-150	2.7	10
132	Redox processes in the Cu/(phen)/[B <sub>12</sub> H <sub>12</sub> ] <sup>2-</sup> /solv system: Selective preparation of copper(I), copper(II), and heterovalent copper(I/II) compounds. <i>Inorganica Chimica Acta</i> , <b>2018</b> , 477, 284-291	2.7	10
131	Nucleophilic addition of hydrazine and benzophenone hydrazone to 2-acetonitrilium closo-decaborate cluster: Structural and photophysical study. <i>Inorganica Chimica Acta</i> , <b>2018</b> , 482, 838-845	2.7	10
130	Interactions of sodium liquid glass with triethylammonium decahydro-closo-decaborate (Et <sub>3</sub> NH) <sub>2</sub> B <sub>10</sub> H <sub>10</sub> . <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 107-110	1.5	10
129	Theoretical study of dodecahydro-closo-decaborane B <sub>10</sub> H <sub>12</sub> , the diprotonated boron cluster B <sub>10</sub> H <sub>2</sub> <sup>+</sup> . <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 793-799	1.5	10
128	Complexes of gold clusters with the closo-borate anions B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> and B <sub>12</sub> H <sub>12</sub> <sup>2-</sup> . <i>Doklady Chemistry</i> , <b>2007</b> , 414, 137-139	0.8	10
127	Reaction of the closo-decaborate anion B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> with dichloroethane in the presence of hydrogen halides. <i>Russian Journal of Inorganic Chemistry</i> , <b>2007</b> , 52, 996-1001	1.5	10
126	Crystal structures of cesium and dimethylammonium cupradecaborates, Cs[CuB <sub>10</sub> H <sub>10</sub> ] and (CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> [CuB <sub>10</sub> H <sub>10</sub> ]. <i>Crystallography Reports</i> , <b>2003</b> , 48, 84-91	0.6	10
125	A sol-gel synthesis and gas-sensing properties of finely dispersed ZrTiO <sub>4</sub> . <i>Materials Chemistry and Physics</i> , <b>2019</b> , 225, 347-357	4.4	10
124	Thermal and thermo-oxidative properties of the decahydro-closo-decaborate anion B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> in a silicate matrix. <i>Inorganic Materials</i> , <b>2015</b> , 51, 736-740	0.9	9
123	Theoretical study of monocarbonyl derivatives of closo-borate anions [B <sub>n</sub> H <sub>n</sub> CO] <sup>-</sup> (n = 6, 10, 12): bonding and reactivity analysis. <i>Mendeleev Communications</i> , <b>2020</b> , 30, 88-90	1.9	9
122	Theoretical study of H <sub>2</sub> elimination from [B <sub>n</sub> H <sub>n+1</sub> ] <sup>-</sup> monoanions (n = 6, 11). <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 1268-1275	1.5	9
121	Behavior of dodecahydro-closo-dodecaborate anion B <sub>12</sub> H <sub>12</sub> <sup>2-</sup> in reaction with Au(Ph <sub>3</sub> P)Cl. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 524-529	1.5	9



120	Synthesis, structure and thermochemical behavior of bis-(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato)-(1,4,7,10,13,16-hexaoxa-cyclooctadecane)-strontium in comparison with its structural and thermochemical analogous. <i>Inorganica Chimica Acta</i> , <b>2009</b> , 362, 5133-5138	2.7	9
119	Studies of thermal stability of nanocrystalline SnO <sub>2</sub> , ZrO <sub>2</sub> , and SiC for semiconductor and thermocatalytic gas sensors. <i>Russian Journal of Electrochemistry</i> , <b>2009</b> , 45, 470-475	1.2	9
118	Selectivity problem of metal oxide based sensors in the presence of water vapors. <i>Procedia Engineering</i> , <b>2010</b> , 5, 111-114		9
117	A new preparative method for the synthesis of oxonium derivatives of the decahydro-closo-decaborate anion. <i>Russian Chemical Bulletin</i> , <b>2010</b> , 59, 371-373	1.7	9
116	Cage complexes as a molecular scaffold for polyfunctional and polytopic systems: Synthesis of the first closo-borate iron(II) clathrochelate. <i>Russian Chemical Bulletin</i> , <b>2006</b> , 55, 22-25	1.7	9
115	Vaporization of Molecular Strontium and Barium Diketonates [Sr(15C5)(C5O2F6H)2] and [Ba(18C6)(C5O2F6H)2]. Structure-Thermochemical Approach. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2004</b> , 30, 755-758	1.6	9
114	Energy of Chemical Bonds in Lanthanide Hydrides. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2000</b> , 26, 887-890	1.6	9
113	The peculiarities of the behaviour of hydride systems related to mechanisms of phase transitions. <i>Journal of the Less Common Metals</i> , <b>1989</b> , 152, 275-285		9
112	Synthesis and properties of meso-aryporphyrin closo-decaborate anion conjugates. <i>Macroheterocycles</i> , <b>2014</b> , 7, 394-400	2.2	9
111	Theoretical Study of closo-Borate Anions [B <sub>n</sub> H <sub>n</sub> ] <sup>2-</sup> (n = 5-12): Bonding, Atomic Charges, and Reactivity Analysis. <i>Symmetry</i> , <b>2021</b> , 13, 464	2.7	9
110	Preparation of nanostructured thin films of yttrium iron garnet (Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> ) by sol-gel technology. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 805-810	1.5	9
109	Mixed-ligand polymeric and binuclear silver(I) complexes with the decahydro-closo-decaborate anion and azaheterocyclic ligands L (L = bipy, phen, bpa). <i>Inorganica Chimica Acta</i> , <b>2019</b> , 493, 38-42	2.7	8
108	Silver(I) and Copper(I) Complexation with Decachloro-Closo-Decaborate Anion. <i>Crystals</i> , <b>2020</b> , 10, 389	2.3	8
107	How xerogel carbonization conditions affect the reactivity of highly disperse SiO <sub>2</sub> composites in the sol-gel synthesis of nanocrystalline silicon carbide. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 1347-1360	1.5	8
106	Intentional selection of coordination compounds with the required thermochemical properties on the basis of the cambridge bank of structural data. <i>Russian Journal of Physical Chemistry A</i> , <b>2012</b> , 86, 1340-1351	0.7	8
105	Reactions of sodium tetrahydroborate with alkyl and aryl halides: A new approach to the synthesis of B <sub>3</sub> H <sub>8</sub> <sup>-</sup> and B <sub>12</sub> H <sub>12</sub> <sup>2-</sup> anions. <i>Russian Journal of Inorganic Chemistry</i> , <b>2013</b> , 58, 1321-1323	1.5	8
104	Mechanochemical synthesis of complex hydrides. <i>Russian Journal of Inorganic Chemistry</i> , <b>2012</b> , 57, 1631-1652	1.5	8
103	The undeca-hydrodecaborate anion B <sub>10</sub> H <sub>11</sub> <sup>-</sup> as the starting reagent in exopolyhedral substitution and complexation: Theoretical and experimental prerequisites. <i>Russian Journal of Inorganic Chemistry</i> , <b>2012</b> , 57, 331-336	1.5	8

102	Boron cluster anions B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> and B <sub>10</sub> H <sub>11</sub> <sup>-</sup> in complexation reactions of copper(I). Positional isomers of the complex [Cu <sub>2</sub> (9Nphen) <sub>4</sub> B <sub>10</sub> H <sub>10</sub> ]. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 1608-1611	1.7	8
101	Interaction of closo-decaborate anion B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> with iminium salts. <i>Russian Journal of Inorganic Chemistry</i> , <b>2006</b> , 51, 1552-1560	1.5	8
100	Heats of formation of hydrides of intermetallic compounds: Quantitative predictions. <i>Journal of the Less Common Metals</i> , <b>1987</b> , 128, 1-6		8
99	Theoretical study of closo-borate derivatives of general type [B <sub>n</sub> H <sub>n-1</sub> COR] <sub>2</sub> (n = 6, 10, 12; R = H, CH <sub>3</sub> , NH <sub>2</sub> , OH, OCH <sub>3</sub> ) Borylated analogue of organic carbonyl compounds. <i>Polyhedron</i> , <b>2020</b> , 187, 114682	2.7	8
98	Nucleophilic addition of amino acid esters to nitrilium derivatives of closo-decaborate anion. <i>Mendeleev Communications</i> , <b>2021</b> , 31, 201-203	1.9	8
97	Synthesis of Perchlorinated Sulfonium Derivatives of -Decaborate Anion [2-BClSR] (R = -CH <sub>3</sub> , -CH <sub>2</sub> , -CH <sub>2</sub> -CH <sub>2</sub> , -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> , CHPh, and -S(CH <sub>3</sub> )). <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 8592-8604	5.1	8
96	Zinc(II) and cadmium(II) complexes with the decahydro-closo-decaborate anion and phenyl-containing benzimidazole derivatives with linker NN or CN group. <i>Polyhedron</i> , <b>2021</b> , 194, 114902	2.7	8
95	Synthesis, structures, DFT calculations, and Hirshfeld surface analysis of sulfonium derivatives of the closo-decaborate anion [B <sub>10</sub> X <sub>9</sub> -cyclo-S(CH <sub>2</sub> ) <sub>4</sub> ] <sup>2-</sup> and [B <sub>10</sub> X <sub>9</sub> -cyclo-S(CH <sub>2</sub> CH <sub>2</sub> ) <sub>2</sub> O] <sup>2-</sup> (X = H, Cl, Br). <i>Journal of Molecular Structure</i> , <b>2021</b> , 1241, 130591	3.4	8
94	Iron(II) Complexes with Boron Cluster Anion [B <sub>10</sub> Cl <sub>10</sub> ] <sup>2-</sup> Intermolecular Interactions according to 35Cl NQR Spectroscopy and X-ray Diffraction. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2017</b> , 643, 1939-1947	1.3	7
93	Thermal oxidation of the decahydro-closo-decaborate anion B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> in a silicate matrix. <i>Inorganic Materials</i> , <b>2015</b> , 51, 498-502	0.9	7
92	Solvent-Induced Encapsulation of Cobalt(II) Ion by a Boron-Capped tris-Pyrazoloximate. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 5845-5853	5.1	7
91	Multicenter interactions in lead(II) coordination compounds with B <sub>n</sub> H <sub>n</sub> <sup>2-</sup> (n = 6, 10, 12) cluster anions and their derivatives. <i>Russian Journal of Inorganic Chemistry</i> , <b>2009</b> , 54, 417-424	1.5	7
90	Synthesis and structure of the polymeric complex [Ag <sub>2</sub> (Ph <sub>3</sub> P) <sub>2</sub> B <sub>10</sub> H <sub>10</sub> ] <sub>n</sub> . <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 34-39	1.5	7
89	Perchlorosilanes and perchlorocarborasilanes as precursors for SiC synthesis. <i>Inorganic Materials</i> , <b>2007</b> , 43, 369-372	0.9	7
88	Crystal structure of tetraphenylphosphonium 2-[(Z)-Hydroxy(phenyl)methylene]ammonio}nonahydro-closo-Decaborate: The intramolecular O-H...B <sub>3</sub> hydrogen bond in the [B <sub>10</sub> H <sub>9</sub> NHC(OH)Ph] <sup>2-</sup> anion. <i>Crystallography Reports</i> , <b>2007</b> , 52, 271-274	0.6	7
87	Structure of the undeca-hydrodecaborate anion B <sub>10</sub> H <sub>11</sub> <sup>-</sup> . Crystal structures of [Ph <sub>3</sub> PCH <sub>2</sub> Naph] <sup>-</sup> B <sub>10</sub> H <sub>11</sub> and [Ph <sub>3</sub> PET] <sup>-</sup> B <sub>10</sub> H <sub>10</sub> . <i>Crystallography Reports</i> , <b>2004</b> , 49, 767-771	0.6	7
86	Theoretical study of protonation of the B <sub>12</sub> H <sub>12</sub> <sup>2-</sup> anion and subsequent hydrogen loss from the B <sub>12</sub> H <sub>13</sub> <sup>-</sup> . Effect of the medium. <i>Computational and Theoretical Chemistry</i> , <b>2014</b> , 1042, 16-22	2	6
85	Tin(II) Hexafluoroacetylacetonate as a Precursor in Atmospheric Pressure Chemical Vapour Deposition: Synthesis, Structure and Properties. <i>Mendeleev Communications</i> , <b>2012</b> , 22, 239-241	1.9	6

84	Finely dispersed refractory compounds for high-temperature ceramic matrix composite applications. <i>Russian Journal of General Chemistry</i> , <b>2010</b> , 80, 658-665	0.7	6
83	Synthesis, Spectroscopic Characterization, and Structure of closo-1,10-B10H8F22- and Related Fluorinated Derivatives of B10H102-. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1997</b> , 62, 1310-1324		6
82	Reactions of the closo-dodecaborate anion B <sub>12</sub> H <sub>12</sub> <sup>2-</sup> with hydrogen halides in dichloroethane. <i>Russian Journal of Inorganic Chemistry</i> , <b>2007</b> , 52, 52-57	1.5	6
81	Synthesis and structure of the cadmium(II) complex [Cd <sub>2</sub> (Ph(NH <sub>2</sub> ) <sub>2</sub> ) <sub>5</sub> (DMFA) <sub>4</sub> ](B <sub>10</sub> H <sub>10</sub> ) <sub>2</sub> . <i>Russian Journal of Inorganic Chemistry</i> , <b>2007</b> , 52, 854-858	1.5	6
80	Synthesis and structures of compounds [ML <sub>6</sub> ][B <sub>10</sub> Cl <sub>10</sub> ] (M = Co, Ni; L = CH <sub>3</sub> CN, DMF, DMSO) as precursors for synthesis of cobalt(II) and nickel(II) complexes with organic L ligands. <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 296, 121989	3.3	6
79	Features of the formation of zinc(II) and cadmium(II) complexes with the inner-sphere and outer-sphere position of the decahydro-closo-decaborate anion in the presence of azaheterocyclic ligands. <i>Inorganica Chimica Acta</i> , <b>2021</b> , 520, 120315	2.7	6
78	Microstructure, phase composition, and gas-sensing properties of nanostructured ZrO <sub>2</sub> -xY <sub>2</sub> O <sub>3</sub> thin films and powders obtained by the sol-gel method. <i>Ionics</i> , <b>2019</b> , 25, 1259-1270	2.7	6
77	Chemoresistive gas-sensing properties of highly dispersed Nb <sub>2</sub> O <sub>5</sub> obtained by programmable precipitation. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 868, 159090	5.7	6
76	Primary Amine Nucleophilic Addition to Nitrilium -Dodecaborate [BHNCCH]: A Simple and Effective Route to the New BNCT Drug Design.. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
75	Synthesis of carbocation salts of boron cluster anions [B <sub>10</sub> H <sub>10</sub> ] <sup>2-</sup> and [B <sub>12</sub> H <sub>12</sub> ] <sup>2-</sup> . <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 771-775	1.5	5
74	Preparation of highly porous Nb x Ta <sub>1-x</sub> C ceramics from polymer-matrix composite materials based on a phenol-formaldehyde binder and low hydrated hydroxide of niobium and tantalum. <i>Inorganic Materials</i> , <b>2015</b> , 51, 1066-1072	0.9	5
73	Synthesis and structures of mono- and binuclear silver(I) complexes with triphenylphosphine and the dodecahydro-closo-dodecaborate anion. <i>Polyhedron</i> , <b>2020</b> , 184, 114566	2.7	5
72	Theoretical study of protonation of the B <sub>10</sub> H <sub>10</sub> <sup>2-</sup> anion and subsequent hydrogen removal due to substitution reaction in acidic medium. <i>Computational and Theoretical Chemistry</i> , <b>2016</b> , 1075, 77-81	2	5
71	Synthesis, vaporization and thermodynamic properties of superfine yttrium aluminum garnet. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 764, 397-405	5.7	5
70	Dihydrogen Bonds in Salts of Boron Cluster Anions [B <sub>n</sub> H <sub>n</sub> ] <sup>2-</sup> with Protonated Heterocyclic Organic Bases. <i>Crystals</i> , <b>2019</b> , 9, 330	2.3	5
69	Synthesis and crystal structure of Poly(tetraphenylphosphonium (2-closo-decaborato)copper(I)). <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2013</b> , 228,	1	5
68	Isothermal diagrams of the Li <sub>2</sub> O-MnO-MnO <sub>2</sub> system. <i>Doklady Chemistry</i> , <b>2015</b> , 465, 268-271	0.8	5
67	Vaporization of Molecular Coordination Organotitanium Compounds: Development of the Structure-Thermochemical Approach with Programmed Use of the Cambridge Structural Database. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2004</b> , 30, 679-684	1.6	5

66	Reversible and irreversible transformations in intermetallic compound-hydrogen systems. <i>Journal of the Less Common Metals</i> , <b>1989</b> , 147, 185-193		5
65	Thermal reactions of alkaline metal borohydrides: Synthesis of borides. <i>Journal of the Less Common Metals</i> , <b>1986</b> , 117, 41-44		5
64	Formation of oxidopolyborates in destruction of the [B <sub>11</sub> H <sub>14</sub> ] <sup>-</sup> anion promoted by transition metals. <i>Inorganica Chimica Acta</i> , <b>2020</b> , 509, 119693	2.7	5
63	Gas-sensitive nanostructured ZnO films praseodymium and europium doped: Electrical conductivity, selectivity, influence of UV irradiation and humidity. <i>Applied Surface Science</i> , <b>2022</b> , 589, 152974	6.7	5
62	Theoretical study of exopolyhedral substitution in the hexahydro-closo-hexaborate anion. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 1110-1116	1.5	4
61	Structures, magnetic properties, and EPR studies of tetranuclear copper(II) complexes [Cu <sub>4</sub> (OH) <sub>4</sub> L <sub>4</sub> ] <sup>4+</sup> (L = bpa, bipy) stabilized by anions containing decahydro-closo-decaborate anion. <i>Polyhedron</i> , <b>2020</b> , 183, 114540	2.7	4
60	Calcium hydroxyapatite in hydroxyapatite/graphene oxide/collagen nanohybrids. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 1467-1480	1.5	4
59	Potentiometric sensors with membranes based on ionic liquid tetradecylammonium triethylammonio-closo-dodecaborate. <i>Journal of Analytical Chemistry</i> , <b>2012</b> , 67, 168-171	1.1	4
58	Polydentate ligands based on closo-decaborate anion for the synthesis of gadolinium(III) complexes. <i>Russian Chemical Bulletin</i> , <b>2013</b> , 62, 1417-1421	1.7	4
57	Synthesis and structure of tin tetrachloride adducts with crown ether: Crystal structure of [Sn(H <sub>2</sub> O) <sub>2</sub> Cl <sub>4</sub> ] <sup>-</sup> ·18C <sub>6</sub> and [Sn(H <sub>2</sub> O) <sub>2</sub> Cl <sub>4</sub> ] <sup>-</sup> ·18C <sub>6</sub> ·2H <sub>2</sub> O. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 530-538	1.5	4
56	DMS solutions Mg(Fe <sub>1-x</sub> Ga <sub>x</sub> ) <sub>2</sub> O <sub>4</sub> . <i>Doklady Physical Chemistry</i> , <b>2010</b> , 430, 39-42	0.8	4
55	Reaction of closo-dodecaborate anion B <sub>12</sub> H <sub>12</sub> <sup>2-</sup> with iminium salts. <i>Russian Journal of Inorganic Chemistry</i> , <b>2006</b> , 51, 1716-1722	1.5	4
54	Thermodynamics of Coordination Bonds in Metal closo-Heteroclusters of the Endofullerene Type M@nB <sub>r</sub> C <sub>s</sub> n <sup>-</sup> (m = k + r + s = 12, 24, or 28; n = 0), Where M = Li, Mg, Al, Ti, Zr, Hf, V, Nb, Mo, Ru, Rh, Ir, Ta, Pt, Pd, and Au. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2003</b> , 29, 766-772	1.6	4
53	Catalytic Synthesis of Basic Petrochemical Products from C <sub>1</sub> -C <sub>4</sub> Alkanes. <i>Chemistry and Technology of Fuels and Oils</i> , <b>2005</b> , 41, 131-140	0.4	4
52	Nitrosation of Dodecahydro-closo-Dodecaborate Anions in Aqueous and Nonaqueous Solutions. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2001</b> , 27, 625-627	1.6	4
51	Microextrusion printing of gas-sensitive planar anisotropic NiO nanostructures and their surface modification in an H <sub>2</sub> S atmosphere. <i>Applied Surface Science</i> , <b>2022</b> , 578, 151984	6.7	4
50	Oxidation of HfB <sub>2</sub> -SiC-Ta <sub>4</sub> HfC <sub>5</sub> ceramic material by a supersonic flow of dissociated air. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 1088-1098	6	4
49	Theoretical study of the structures of [M(18C <sub>6</sub> )](HFA) <sub>2</sub> complexes (M = Ba, Sr, Pb, Cd, Mn; 18C <sub>6</sub> = 18-crown-6; HFA = hexafluoroacetylacetonate anion). <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 713-720	1.5	3

48	Isomerization [trans-B <sub>20</sub> H <sub>18</sub> ] <sup>2-</sup> → [iso-B <sub>20</sub> H <sub>18</sub> ] <sup>2-</sup> during silver(I) complexation with triphenylphosphine. <i>Doklady Chemistry</i> , <b>2015</b> , 465, 291-294	0.8	3
47	Thermodynamic and experimental study of the interaction of silicon and carbon monoxide: Synthesis of silicon carbide nanofibers. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 1517-1524	1.5	3
46	Ion-selective electrodes for the determination of closoborate anions. <i>Journal of Analytical Chemistry</i> , <b>2011</b> , 66, 666-669	1.1	3
45	Materials science perspectives for oxide ferromagnetic semiconductors. <i>Inorganic Materials</i> , <b>2010</b> , 46, 1437-1458	0.9	3
44	Method for the preparation of aluminum hydride. <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 1830-1832	1.3	3
43	Modern aspects of the chemistry of complex boron and aluminum hydrides. <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 2128-2147	1.5	3
42	Conditions for the synthesis of Sb(III) fluoride complexes. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2005</b> , 31, 77-85	1.6	3
41	B-F bonding and reactivity analysis of mono- and perfluoro-substituted derivatives of closo-borate anions (6, 10, 12): a computational study. <i>Polyhedron</i> , <b>2021</b> , 115559	2.7	3
40	Metal-Promoted Exopolyhedral Substitution of Terminal Hydrogen Atoms in the Closo-Decaborate Anion [B <sub>10</sub> H <sub>10</sub> ] <sup>2-</sup> in the Presence of Copper(II): Formation of the Substituted Derivative [2-B <sub>10</sub> H <sub>9</sub> OH] <sup>2-</sup> . <i>Journal of Cluster Science</i> , <b>2021</b> , 32, 755-763	3	3
39	Crystal structures, luminescence, and DFT study of mixed-ligand Zn(II) and Cd(II) complexes with phenyl-containing benzimidazole derivatives with linker C N or N N group. <i>Journal of Luminescence</i> , <b>2021</b> , 237, 118156	3.8	3
38	Reactivity of the dodecahydro-closo-dodecaborate anion in zinc(II) and cadmium(II) complexation at the presence of azaheterocyclic ligands. <i>Inorganica Chimica Acta</i> , <b>2021</b> , 527, 120587	2.7	3
37	Tin trifluoroacetylacetonate [Sn(C <sub>5</sub> H <sub>4</sub> O <sub>2</sub> F <sub>3</sub> ) <sub>2</sub> ] as a precursor of tin dioxide in APCVD process. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 545-553	1.5	2
36	Scanning probe microscope-quartz crystal microbalances integrated system for in-situ study of sensor properties of microamounts of nanomaterials. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2014</b> , 48, 518-523	0.9	2
35	MgAl <sub>0.4</sub> Fe <sub>1.6</sub> O <sub>4</sub> powders prepared via gel combustion. <i>Russian Journal of Inorganic Chemistry</i> , <b>2012</b> , 57, 794-796	1.5	2
34	Boron cluster anions [B <sub>n</sub> H <sub>n</sub> ] <sup>2-</sup> (n = 10, 12) in the formation of binuclear iron(II) complexes with bridging CO <sub>3</sub> group and azaheterocyclic ligands L (L = Bipy, Phen). <i>Doklady Chemistry</i> , <b>2015</b> , 461, 96-99	0.8	2
33	Boron nanoparticles: Reactivity and properties. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 1589-1593	1.7	2
32	Molecular structure of C(SiCl <sub>3</sub> ) <sub>4</sub> tetrakis-(trichlorosilyl)methane. <i>Journal of Structural Chemistry</i> , <b>2009</b> , 50, 153-157	0.9	2
31	Europium phosphonates. <i>Russian Journal of Inorganic Chemistry</i> , <b>2009</b> , 54, 1396-1400	1.5	2

30	Isomerism of metal complexes with the boron cluster anions B <sub>10</sub> H <sub>2</sub> <sup>10-</sup> and B <sub>12</sub> H <sub>2</sub> <sup>12-</sup> . <i>Russian Journal of Inorganic Chemistry</i> , <b>2009</b> , 54, 1947-1951	1.5	2
29	Nikolai Semenovich Kurnakov (to the 150th Anniversary of His Birthday). <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 1668-1679	1.5	2
28	Alternating Nonlinearity of the Joint Activating Effect of Binary Mixtures of pElement Oxides on the Chemically Activated Thermal GaAs Oxidation. <i>Doklady Chemistry</i> , <b>2001</b> , 378, 165-167	0.8	2
27	Solid-phase synthesis of protonated nitrogen-containing heterocyclic compounds with the boron cluster anions starting from [Eu(H <sub>2</sub> O) <sub>9</sub> ] <sub>2</sub> [B <sub>10</sub> Cl <sub>10</sub> ] <sub>3</sub> : Synthesis, structure, and thermal properties of (E) <sub>2</sub> [B <sub>10</sub> Cl <sub>10</sub> ] (L = 7-amino-4-methylcoumarin or 1-ethyl-2-(4-methoxyphenyl)azobenzimidazole). <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 302, 122413	3.3	2
26	Protonation of Borylated Carboxonium Derivative [2,6-BHOCCH]: Theoretical and Experimental Investigation.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	2
25	Electronic structure of oxygen-containing bismuth compounds. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 970-974	1.5	1
24	Theoretical study of the structure and water affinity of [M(18C6)(HFA) <sub>2</sub> ] complexes for M = Zn, Cu, Hg, Co, Ni, and Pt. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 846-857	1.5	1
23	The 80th anniversary of the Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences. <i>Russian Journal of Inorganic Chemistry</i> , <b>2014</b> , 59, 643-646	1.5	1
22	General electronegativity profile of a hydrogen molecule. <i>Russian Journal of Inorganic Chemistry</i> , <b>2015</b> , 60, 875-878	1.5	1
21	Properties of B n nanoparticles: Electron affinity. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 1105-1107	1.5	1
20	Effect of ultrafine carbon precursors on the morphology of silicon carbide nanoparticles. <i>Theoretical Foundations of Chemical Engineering</i> , <b>2007</b> , 41, 644-648	0.9	1
19	A possibility of using mechanical alloying for developing metal matrix composites with light-weight reinforcements. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 434-435, 451-454	5.7	1
18	Selectivity of Complexation in Extractive Separation of Isotopes. Structural Thermodynamic Model. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2004</b> , 30, 605-610	1.6	1
17	Microstructure and local electrophysical properties of sol-gel derived (In <sub>2</sub> O <sub>3</sub> -10%SnO <sub>2</sub> )/V <sub>2</sub> O <sub>5</sub> films. <i>Colloids and Interface Science Communications</i> , <b>2021</b> , 43, 100452	5.4	1
16	New type of RNA virus replication inhibitor based on decahydro-closo-decaborate anion containing amino acid ester pendant group.. <i>Journal of Biological Inorganic Chemistry</i> , <b>2022</b> , 1	3.7	1
15	Metal alloys and carbon nanomaterials as potential hydrogen storage materials. <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 1192-1196	1.5	0
14	Oxidation of graphene-modified HfB <sub>2</sub> -SiC ceramics by supersonic dissociated air flow. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 42, 30-30	6	0
13	Iron(II), cobalt(II), and nickel(II) complexes with 1,10-phenanthroline and 2,2'-bipyridyl and the macropolyhedral borane cluster [trans-B <sub>20</sub> H <sub>18</sub> ] <sub>2</sub> <sup>-</sup> as counterion. <i>Polyhedron</i> , <b>2022</b> , 217, 115740	2.7	0

12	Polymeric anionic silver(I) complexes {Cat[Ag[B10H10]]} (Cat = Pr <sup>4+</sup> , Ph <sub>4</sub> P <sup>+</sup> , Ph <sub>4</sub> As <sup>+</sup> ) with facial and edge-facial coordination of the boron cluster. <i>Polyhedron</i> , <b>2022</b> , 223, 115932	2.7	0
11	Chemical stability of 1-substituted 2-aldimine- and 2-azobenzimidazoles under copper-promoted autoxidation. <i>Inorganica Chimica Acta</i> , <b>2022</b> , 539, 121038	2.7	0
10	Theoretical study of the redox reactivity of complex boron hydrides K <sub>2</sub> [B <sub>12</sub> H <sub>12</sub> ], Cs <sub>2</sub> [B <sub>12</sub> H <sub>12</sub> ], and Tl <sub>2</sub> [B <sub>10</sub> H <sub>10</sub> ] and their mixed salts K <sub>2</sub> [B <sub>12</sub> H <sub>12</sub> ] [KCl], Cs <sub>2</sub> [B <sub>12</sub> H <sub>12</sub> ] [CsCl], and Tl <sub>2</sub> [B <sub>10</sub> H <sub>10</sub> ] [KNO <sub>3</sub> ]. <i>Russian Journal of Inorganic Chemistry</i> , <b>2016</b> , 61, 979-984	1.5	
9	Influence of chemical structure on acute toxicity of S-containing derivatives of boron clusters intended for neutron-capture therapy of malignant neoplasms. <i>Pharmaceutical Chemistry Journal</i> , <b>2012</b> , 46, 536-539	0.9	
8	Reactivity of boron fullerenes. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 1108-1110	1.5	
7	Properties of boron, boride, and indium nanomaterials: The melting temperatures of spherical nanoparticles, nanowires, and nanofilms. <i>Russian Journal of Inorganic Chemistry</i> , <b>2011</b> , 56, 1416-1420	1.5	
6	N. S. Kurnakov's contribution to coordination chemistry. <i>Russian Journal of Inorganic Chemistry</i> , <b>2010</b> , 55, 1680-1685	1.5	
5	On the analog of benzene B <sub>6</sub> H <sub>6</sub> <sup>n-</sup> , 2 <sup>nd</sup> part: Geometry of B <sub>6</sub> H <sub>6</sub> <sup>n-</sup> anions. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2007</b> , 33, 725-728	1.6	
4	Crystal structure of aminoguanidinium hexahydro-closo-hexaborate dihydrate, (CN <sub>4</sub> H <sub>7</sub> ) <sub>2</sub> B <sub>6</sub> H <sub>6</sub> · 2H <sub>2</sub> O. <i>Crystallography Reports</i> , <b>2002</b> , 47, 47-50	0.6	
3	Preparation of New Derivatives of the closo-Dodecaborate Anion [B <sub>12</sub> H <sub>10</sub> (OC(O)CH <sub>3</sub> ){OC(O)(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> }] <sub>2</sub> <sup>-</sup> [B <sub>12</sub> H <sub>10</sub> (OH){OC(O)(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> }] <sub>2</sub> <sup>-</sup> [B <sub>12</sub> H <sub>10</sub> (SCN){OC(O)(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> }] <sub>2</sub> <sup>-</sup> and [B <sub>12</sub> H <sub>10</sub> (I){OC(O)(CH <sub>2</sub> ) <sub>3</sub> CH <sub>3</sub> }] <sub>2</sub> <sup>-</sup> <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , <b>2002</b> , 28, 451-453	1.6	
2	Solvent Effect in the Technology of Receptor Materials of Chemical Sensors. <i>Doklady Chemistry</i> , <b>2001</b> , 376, 49-51	0.8	
1	Nickel(II) and Iron(II) coordination compounds with octahydrotriborate(1 <sup>-</sup> ) anion [ML <sub>3</sub> ]{B <sub>3</sub> H <sub>8</sub> } <sub>2</sub> (M = Fe <sup>2+</sup> , Ni <sup>2+</sup> ; L = bipy, phen). <i>Doklady Chemistry</i> , <b>2016</b> , 467, 64-68	0.8	