

# Igor R Shein

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7253963/publications.pdf>

Version: 2024-02-01

233  
papers

4,756  
citations

136740

32  
h-index

149479

56  
g-index

235  
all docs

235  
docs citations

235  
times ranked

4371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-like titanium carbides and nitrides $Ti_{n+1}C_n$ , $Ti_{n+1}N_n$ ( $n=1, 2$ , and $3$ ) from de-intercalated MAX phases: First-principles probing of their structural, electronic properties and relative stability. Computational Materials Science, 2012, 65, 104-114.	1.4	286
2	Elastic properties of mono- and polycrystalline hexagonal $AlB_2$ -like diborides of s, p and d metals from first-principles calculations. Journal of Physics Condensed Matter, 2008, 20, 415218.	0.7	234
3	Electronic structure, chemical bonding and elastic properties of the first thorium-containing nitride perovskite $TaThN_3$ . Physica Status Solidi - Rapid Research Letters, 2007, 1, 89-91.	1.2	218
4	Electronic and structural properties of cementite-type $M_3X$ ( $M=Fe, Co, Ni$ ; $X=C$ or $B$ ) by first principles calculations. Physica B: Condensed Matter, 2006, 371, 126-132.	1.3	130
5	Structural, electronic and magnetic properties of $\bar{1}$ -carbides ( $Fe_3W_3C$ , $Fe_6W_6C$ , $Co_3W_3C$ and $Co_6W_6C$ ) from first principles calculations. Physica B: Condensed Matter, 2009, 404, 3544-3549.	1.3	96
6	Elastic properties of quaternary oxypnictides $LaOFeAs$ and $LaOFeP$ as basic phases for new $26 \sim 52K$ superconducting materials from first principles. Scripta Materialia, 2008, 59, 1099-1102.	2.6	87
7	Graphene-like nanocarbides and nanonitrides of $d$ metals (MXenes): synthesis, properties and simulation. Micro and Nano Letters, 2013, 8, 59-62.	0.6	84
8	First-principles calculations of the elastic and electronic properties of the cubic perovskites $SrMO_3$ ( $M=Ti, V, Zr$ and $Nb$ ) in comparison with $SrSnO_3$ . Solid State Sciences, 2008, 10, 217-225.	1.5	83
9	Band Structure and the Magnetic and Elastic Properties of $SrFeO_3$ and $LaFeO_3$ Perovskites. Physics of the Solid State, 2005, 47, 2082.	0.2	74
10	Elastic and electronic properties of hexagonal and cubic polymorphs of tungsten monocarbide $WC$ and mononitride $WN$ from first-principles calculations. Physica Status Solidi (B): Basic Research, 2008, 245, 1590-1597.	0.7	73
11	Structural, electronic properties and stability of tungsten mono- and semi-carbides: A first principles investigation. Journal of Physics and Chemistry of Solids, 2009, 70, 64-71.	1.9	73
12	Band structure of $ZrB_2$ , $VB_2$ , $NbB_2$ , and $TaB_2$ hexagonal diborides: Comparison with superconducting $MgB_2$ . Physics of the Solid State, 2002, 44, 1833-1839.	0.2	68
13	Elastic properties of superconducting MAX phases from first-principles calculations. Physica Status Solidi (B): Basic Research, 2011, 248, 228-232. Electronic and structural properties of low-temperature superconductors and ternary pnictides	0.7	68
14			

#	ARTICLE	IF	CITATIONS
19	Elastic and electronic properties and stability of SrThO <sub>3</sub> , SrZrO <sub>3</sub> and ThO <sub>2</sub> from first principles. Journal of Nuclear Materials, 2007, 361, 69-77.	1.3	56
20	Magnetism without magnetic ions in non-magnetic perovskites SrTiO <sub>3</sub> , SrZrO <sub>3</sub> and SrSnO <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 2008, 320, 936-942.	1.0	55
21	First-principle study of B1-like thorium carbide, nitride and oxide. Journal of Nuclear Materials, 2006, 353, 19-26.	1.3	53
22	Electronic structure and magnetism in BeO nanotubes induced by boron, carbon and nitrogen doping, and beryllium and oxygen vacancies inside tube walls. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 164-168.	1.3	53
23	Structural, elastic and electronic properties of superconducting anti-perovskites MgCNi <sub>3</sub> , ZnCNi <sub>3</sub> and CdCNi <sub>3</sub> from first principles. Physica C: Superconductivity and Its Applications, 2008, 468, 1-6.	0.6	50
24	Elastic parameters of single-crystal and polycrystalline wurtzite-like oxides BeO and ZnO: Ab initio calculations. Physics of the Solid State, 2007, 49, 1067-1073.	0.2	49
25	Influence of lattice vacancies on the structural, electronic, and cohesive properties of niobium and molybdenum borides from first-principles calculations. Physical Review B, 2006, 73, .	1.1	47
26	Electronic structure of new oxygen-free 38-K superconductor Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> in comparison with BaFe <sub>2</sub> As <sub>2</sub> from the first principles. JETP Letters, 2008, 88, 107-110.	0.4	44
27	Structural, elastic, electronic properties and Fermi surface for superconducting Mo <sub>2</sub> GaC in comparison with V <sub>2</sub> GaC and Nb <sub>2</sub> GaC from first principles. Physica C: Superconductivity and Its Applications, 2010, 470, 533-537.	0.6	43
28	Elastic and electronic properties of hexagonal rhenium subnitrides Re <sub>3</sub> N and Re <sub>2</sub> N in comparison with hcp Re and wurtzite-like rhenium mononitride ReN. Physica Status Solidi (B): Basic Research, 2011, 248, 1369-1374.	0.7	41
29	Elastic and electronic properties of polymorphs of the 5.2 K iron-free superconductor $SrPtAs_2$ from first-principles calculations. Physical Review B, 2011, 83, .	1.1	40
30	Electronic structure and properties of beryllium oxide. Inorganic Materials, 2009, 45, 223-234.	0.2	36
31	Band structure of superconducting dodecaborides YB <sub>12</sub> and ZrB <sub>12</sub> . Physics of the Solid State, 2003, 45, 1429-1434.	0.2	35
32	Elastic properties and chemical bonding in ternary arsenide SrFe <sub>2</sub> As <sub>2</sub> and quaternary oxyarsenide LaFeAsO. Basic phases for new 38-55K superconductors from first principles. Physica C: Superconductivity and Its Applications, 2009, 469, 15-19.	0.6	35
33	Magnetization of carbon-doped MgO nanotubes. Physical Review B, 2007, 75, .	1.1	34
34	Effect of Co doping on the electronic structure of MgCNi <sub>3</sub> . Physical Review B, 2002, 66, .	1.1	32
35	Band structure of new superconducting AlB <sub>2</sub> -like ternary silicides M(Al <sub>0.5</sub> Si <sub>0.5</sub> ) <sub>2</sub> and M(Ga <sub>0.5</sub> Si <sub>0.5</sub> ) <sub>2</sub> (where M = Ca, Sr and Ba). Journal of Physics Condensed Matter, 2003, 15, L541-L545.	0.7	32
36	Structural and electronic properties of the 17 K superconductor $SrPt_2As_2$ in comparison to $SrPt_2As_2$ . Physical Review B, 2009, 79, .	1.1	32

#	ARTICLE	IF	CITATIONS
37	Electronic and Magnetic Properties of Superconducting Sr <sub>4</sub> V <sub>2</sub> Fe <sub>2</sub> As <sub>2</sub> O <sub>6</sub> Versus Sr <sub>4</sub> Sc <sub>2</sub> Fe <sub>2</sub> As <sub>2</sub> O <sub>6</sub> . Journal of Superconductivity and Novel Magnetism, 2009, 22, 613-617.	0.8	30
38	Localization of vacancies and mobility of lithium ions in Li <sub>2</sub> ZrO <sub>3</sub> as obtained by <sup>6,7</sup> Li NMR. Journal of Solid State Chemistry, 2013, 208, 43-49.	1.4	30
39	Electronic band structure and chemical bonding in the new antiperovskites AsNMg <sub>3</sub> and SbNMg <sub>3</sub> . Journal of Solid State Chemistry, 2004, 177, 61-64.	1.4	29
40	Electronic band structure and Fermi surface for new layered superconductor LaO <sub>0.5</sub> F <sub>0.5</sub> BiS <sub>2</sub> in comparison with parent phase LaOBiS <sub>2</sub> from first principles. JETP Letters, 2013, 96, 769-774.	0.4	29
41	Structural, luminescence, and electronic properties of the alkaline metal-strontium cyclo-tetranavanadates M <sub>2</sub> Sr(VO <sub>3</sub> ) <sub>4</sub> (M=Na, K, Rb, Cs). Physical Review B, 2005, 72, .	1.1	28
42	Electronic band structure of new $\epsilon$ -pnictogen-free superconductor SrPd <sub>2</sub> Ge <sub>2</sub> as compared with SrNi <sub>2</sub> Ge <sub>2</sub> and SrNi <sub>2</sub> As <sub>2</sub> from first principles calculations. Physica B: Condensed Matter, 2010, 405, 3213-3216.	1.3	28
43	Structural, elastic, and electronic properties of new 211 MAX phase Nb <sub>2</sub> GeC from first-principles calculations. Physica B: Condensed Matter, 2013, 410, 42-48.	1.3	28
44	Electronic properties of hexagonal tungsten monocarbide (h-WC) with 3d impurities from first-principles calculations. Physica B: Condensed Matter, 2009, 404, 1887-1891.	1.3	27
45	Structural, electronic properties and inter-atomic bonding in layered chalcogenide oxides LaMChO (where M = Cu, Ag, and Ch = S, Se) from FLAPW-GGA calculations. Solid State Sciences, 2012, 14, 89-93.	1.5	27
46	Electronic properties of the novel 18-K superconducting Y <sub>2</sub> C <sub>3</sub> as compared with 4-K YC <sub>2</sub> from first principles calculations. Solid State Communications, 2004, 131, 223-227.	0.9	26
47	Electronic structure and thermoelectric properties of skutterudite compounds. Journal of Physics Condensed Matter, 2004, 16, 979-987.	0.7	26
48	Structural, elastic and electronic properties and formation energies for hexagonal (W <sub>0.5</sub> Al <sub>0.5</sub> )C in comparison with binary carbides WC and Al <sub>4</sub> C <sub>3</sub> from first-principles calculations. Physica B: Condensed Matter, 2008, 403, 2654-2661.	1.3	26
49	Superconducting $\epsilon$ -anti-perovskites from first principles: $Cd_{1-x}Ni_x$ comparison with magnetite. <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> display="inline" > < mml:mrow > < mml:mi mathvariant="normal" > Cd < /mml:mi > < mml:mi mathvariant="normal" > C < /mml:mi > < mml:msub > < mml:mi mathvariant="normal" > Ni < /mml:mi > < mml:mn > 3 < /mml:mn > < /mml:mrow > < /mml:math > in	1.1	26
50	Structural, elastic, electronic and magnetic properties of perovskite-like Co <sub>3</sub> WC, Rh <sub>3</sub> WC and Ir <sub>3</sub> WC from first principles calculations. Solid State Sciences, 2010, 12, 814-817.	1.5	26
51	Novel magnetic half-metallic materials based on ionic insulators doped with nonmagnetic impurities: MgO + B, C, N Systems. Technical Physics Letters, 2007, 33, 541-544.	0.2	25
52	Thorium compounds with non-metals: Electronic structure, chemical bond, and physicochemical properties. Journal of Structural Chemistry, 2008, 49, 348-370.	0.3	25
53	New superconductor with a layered crystal structure: Nickel oxybismuthide LaO <sub>1-x</sub> NiBi. JETP Letters, 2008, 87, 649-651.	0.4	25
54	Elastic and electronic properties of the new perovskite-like superconductor ZnNi <sub>3</sub> in comparison with MgCNi <sub>3</sub> . Physica Status Solidi (B): Basic Research, 2010, 247, 72-76.	0.7	25

#	ARTICLE	IF	CITATIONS
55	Electronic properties of new $\text{Ca}(\text{Al}_x\text{Si}_{1-x})_2$ and $\text{Sr}(\text{Ga}_x\text{Si}_{1-x})_2$ superconductors in crystalline and nanotubular states. JETP Letters, 2002, 76, 189-193.	0.4	24
56	Electronic structure and magnetic properties of double perovskites $\text{Sr}_2\text{FeMO}_6$ ( $M = \text{Sc, Ti, \dots, Ni, Cu}$ ) according to the data of FLAPW-GGA band structure calculations. Journal of Structural Chemistry, 2008, 49, 781-787.	0.3	24
57	Non-stoichiometric s-, p- and d-metal diborides: synthesis, properties and simulation. Russian Chemical Reviews, 2008, 77, 467-486.	2.5	24
58	Elastic properties of single- and polycrystalline $\text{LaFeAsO}$ , $\text{SrFe}_2\text{As}_2$ , and $\text{LiFeAs}$ basic phases for new $\text{FeAs}$ superconductors. Technical Physics Letters, 2009, 35, 961-963.	0.2	24
59	Electronic properties of novel 6 K superconductor $\text{LiFeP}$ in comparison with $\text{LiFeAs}$ from first principles calculations. Solid State Communications, 2010, 150, 152-156.	0.9	24
60	The influence of oxygen vacancies on the electronic and magnetic properties of perovskite-like $\text{SrFeO}_{3-x}$ . Journal of Physics and Chemistry of Solids, 2006, 67, 1436-1439.	1.9	23
61	Electronic structure and magnetic properties of $\text{Fe}_3\text{C}$ with 3d and 4d impurities. Physica Status Solidi (B): Basic Research, 2007, 244, 1971-1981.	0.7	23
62	Electronic band structure and Fermi surface of tetragonal low-temperature superconductor $\text{Bi}_2\text{Pd}$ as predicted from first principles. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1-4.	0.8	23
63	The band structures of superconducting $\text{MgB}_2$ and the isostructural compounds $\text{CaGa}_2$ , $\text{AgB}_2$ , $\text{AuB}_2$ , $\text{ZrBe}_2$ , and $\text{HfBe}_2$ . Physics of the Solid State, 2001, 43, 2213-2218.	0.2	22
64	Band structure, elastic and magnetic properties, and stability of antiperovskites $\text{MCNi}_3$ ( $M = \text{Y, Ag}$ ) according to FLAPW-GGA calculations. Physics of the Solid State, 2007, 49, 1704-1714.	0.2	22
65	Electronic band structure of thorium hydrides: $\text{ThH}_2$ and $\text{Th}_4\text{H}_{15}$ . Physica B: Condensed Matter, 2007, 389, 296-301.	1.3	22
66	Electronic properties and chemical bonding in quaternary arsenide oxides $\text{LaZnAsO}$ and $\text{YZnAsO}$ . Materials Chemistry and Physics, 2009, 116, 129-133.	2.0	22
67	Structural, electronic, magnetic and elastic properties of tetragonal layered diselenide $\text{KCo}_2\text{Se}_2$ from first principles calculations. Physica B: Condensed Matter, 2012, 407, 271-275.	1.3	22
68	Ab initio calculations of the electronic properties of new superconducting nanolaminates: $\text{Nb}_2\text{SnC}$ and $\text{Nb}_2\text{SC}_{1-x}$ . Doklady Physical Chemistry, 2006, 411, 317-321.	0.2	21
69	Band structure and properties of polymorphic modifications of lower tungsten carbide $\text{W}_2\text{C}$ . Physics of the Solid State, 2008, 50, 1420-1426.	0.2	21
70	Electronic structure and Fermi surface of the superconductors $\text{LaNiBiO}$ and $\text{LaCuBiO}$ from first principles. Physical Review B, 2008, 78, .	1.1	21
71	Structural, vibrational, electronic, and luminescence properties of the cyclotetranadates $\text{A}_2\text{M}(\text{VO}_3)_4$ ( $A = \text{Na, Ag; M} = \text{Ca, Sr}$ ). Physical Review B, 2008, 77, .	1.1	21
72	Stability, structural, elastic, and electronic properties of polymorphs of the superconducting disilicide $\text{YIr}_2\text{Si}_2$ . Physica B: Condensed Matter, 2011, 406, 3525-3530.	1.3	21

#	ARTICLE	IF	CITATIONS
73	Structural, elastic and electronic properties of new antiperovskite-like ternary nitrides AlNNi <sub>3</sub> , GaNNi <sub>3</sub> and InNNi <sub>3</sub> as predicted from first principles. Computational Materials Science, 2010, 49, 457-461.	1.4	20
74	Electronic structure of the new MgCNi <sub>3</sub> superconductor and related intermetallic compounds. JETP Letters, 2001, 74, 122-127.	0.4	19
75	Electronic band structure and inter-atomic bonding in tetragonal BiOCuS as a parent phase for novel layered superconductors. Solid State Communications, 2010, 150, 640-643.	0.9	19
76	Effect of metal vacancies on the band structure of Nb, Zr, and Y diborides. Physics of the Solid State, 2003, 45, 1617-1621.	0.2	18
77	First-principles study on the structural, cohesive and electronic properties of rhombohedral Mo <sub>2</sub> B <sub>5</sub> as compared with hexagonal MoB <sub>2</sub> . Physica B: Condensed Matter, 2007, 387, 184-189.	1.3	18
78	Structural, electronic properties and intra-atomic bonding in new ThCr <sub>2</sub> Si <sub>2</sub> -like arsenides SrRu <sub>2</sub> As <sub>2</sub> , BaRu <sub>2</sub> As <sub>2</sub> , SrRh <sub>2</sub> As <sub>2</sub> and BaRh <sub>2</sub> As <sub>2</sub> from first principles calculations. Solid State Communications, 2009, 149, 1860-1865.	0.9	18
79	Trends in stability, elastic and electronic properties of cubic Rh, Ir, Pd and Pt carbides depending on carbon content: MC versus M <sub>4</sub> C from first-principles calculations. Journal of Physics and Chemistry of Solids, 2010, 71, 803-809.	1.9	18
80	Design of novel magnetic materials based on ZrCuSiAs-like semiconducting pnictide-oxides from first-principles calculations. Solid State Communications, 2010, 150, 2069-2071.	0.9	18
81	Electronic Structure, Mechanical and Dynamical Stability of Hexagonal Subcarbides M <sub>2</sub> C (M = Tc, Ru.) Tj ETQq1 1 0,784314 rgBT /Ove	0.2	18
82	Ab Initio and Experimental Insights on Structural, Electronic, Optical, and Magnetic Properties of Cr-Doped Bi <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> . Inorganic Chemistry, 2019, 58, 9904-9915.	1.9	18
83	Photocatalytic Properties of Bi <sub>2-x</sub> Ti <sub>2</sub> O <sub>7</sub> (x = 0, 0.5) Pyrochlores: Hybrid DFT Calculations and Experimental Study. Inorganic Chemistry, 2020, 59, 12385-12396.	1.9	18
84	Energy-band structure of the A(Sn <sub>1-x</sub> M <sub>x</sub> )O <sub>3</sub> (A = Ca, Sr, Ba; M = Mn, Fe, Co) perovskite-type phases: A search for new magnetic semimetals. Semiconductors, 2006, 40, 1261-1265.	0.2	17
85	Bismuth titanate pyrochlores doped by alkaline earth elements: First-principles calculations and experimental study. Solid State Ionics, 2018, 317, 183-189.	1.3	17
86	Magnetization of beryllium oxide in the presence of nonmagnetic impurities: Boron, carbon, and nitrogen. JETP Letters, 2007, 85, 246-250.	0.4	16
87	Electronic and elastic properties of perovskite-like W <sub>3</sub> NiC, W <sub>3</sub> NiN and Co <sub>3</sub> WC from first-principles calculations. Physica Status Solidi (B): Basic Research, 2009, 246, 1646-1651.	0.7	16
88	Electronic and elastic properties of the superconducting nanolaminate Ti <sub>2</sub> InC. Physics of the Solid State, 2009, 51, 1608-1612.	0.2	16
89	Structural and electronic properties and the fermi surface of the new non-centrosymmetric superconductors: 3.6 K CaIrSi <sub>3</sub> and 2.3 K CaPtSi <sub>3</sub> . JETP Letters, 2010, 92, 343-347.	0.4	16
90	Elastic, electronic properties and intra-atomic bonding in orthorhombic and tetragonal polymorphs of BaZn <sub>2</sub> As <sub>2</sub> from first-principles calculations. Journal of Alloys and Compounds, 2014, 583, 100-105.	2.8	16

#	ARTICLE	IF	CITATIONS
91	Thorite versus huttonite: stability, electronic properties and X-ray emission spectra from first-principle calculations. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 545-552.	0.3	15
92	Electronic structure of cubic tungsten subnitride W <sub>2</sub> N in comparison to hexagonal and cubic tungsten mononitrides WN. <i>Journal of Structural Chemistry</i> , 2010, 51, 199-203.	0.3	15
93	Electronic band structure, optical absorption, and photocatalytic activity of iron-doped anatase. <i>Physics of the Solid State</i> , 2013, 55, 1903-1912.	0.2	15
94	Effects of atomic relaxation and the electronic structure of niobium (100) and (110) surfaces. <i>Physics of Metals and Metallography</i> , 2006, 102, 604-610.	0.3	14
95	Bending of MgO tubes: Mechanically induced hexagonal phase of magnesium oxide. <i>Physical Review B</i> , 2007, 75, .	1.1	14
96	Band structure of SrFeAsF and CaFeAsF—the base phases of a new group of oxygen-free FeAs superconductors. <i>JETP Letters</i> , 2008, 88, 683-687.	0.4	14
97	MAGNETIZATION OF BERYLLIUM MONOXIDE (BeO) WITHOUT MAGNETIC IMPURITIES: A FIRST-PRINCIPLES STUDY. <i>International Journal of Modern Physics B</i> , 2008, 22, 4987-4992.	1.0	14
98	Tungsten carbides and nitrides and ternary systems based on them: the electronic structure, chemical bonding and properties. <i>Russian Chemical Reviews</i> , 2010, 79, 611-634.	2.5	14
99	Ab initio study of elastic and electronic properties of cubic thorium pnictides ThPn and Th <sub>3</sub> Pn <sub>4</sub> (Pn = As, Sb, Bi, Po). <i>Journal of Nuclear Materials</i> , 2011, 41, 1-14.	0.7843	14
100	Structural, Electronic Properties and Fermi Surface of ThCr <sub>2</sub> Si <sub>2</sub> -Type Tetragonal KFe <sub>2</sub> S <sub>2</sub> , KFe <sub>2</sub> Se <sub>2</sub> , and KFe <sub>2</sub> Te <sub>2</sub> Phases as Parent Systems of New Ternary Iron-Chalcogenide Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011, 24, 2215-2221.	0.8	14
101	Ab initio thermodynamic characteristics of the formation of oxygen vacancies, and boron, carbon, and nitrogen impurity centers in anatase. <i>Physics of the Solid State</i> , 2018, 60, 37-48.	0.2	14
102	Electronic and magnetic properties of beryllium oxide with 3d impurities from first-principles calculations. <i>Physica B: Condensed Matter</i> , 2007, 400, 47-52.	1.3	13
103	Electronic structure and stability of thorium carbonitrides. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3198-3205.	0.7	13
104	Elastic properties of thorium ceramics ThX (X = C, N, O, P, As, Sb, S, Se). <i>Technical Physics Letters</i> , 2007, 33, 128-131.	0.2	13
105	First-principles study of structural, elastic and electronic properties of thorium dicarbide (ThC <sub>2</sub> ) polymorphs. <i>Journal of Nuclear Materials</i> , 2009, 393, 192-196.	1.3	13
106	Ab initio calculation of the electronic structure, Fermi surface, and elastic properties of the new 7.5-K superconductor Nb <sub>2</sub> InC. <i>JETP Letters</i> , 2010, 91, 410-414.	0.4	13
107	Structural, electronic properties and chemical bonding in protonated lithium metallates Li <sub>2-x</sub> H <sub>x</sub> MO <sub>3</sub> (M = Ti, Zr, Sn). <i>Journal of Structural Chemistry</i> , 2011, 52, 1043-1050.	0.3	13
108	Structural, elastic, electronic properties and stability trends of 1111-like silicide arsenides and germanide arsenides M <sub>2</sub> CuXAs (M=Ti, Zr, Hf; X=Si, Ge) from first principles. <i>Journal of Alloys and Compounds</i> , 2012, 533, 71-78.	2.8	13

#	ARTICLE	IF	CITATIONS
109	Ab initio calculations of the stability and structural defects of the B2 $Cu_xFe_{1-x}$ Al phases. <i>Physics of the Solid State</i> , 2007, 49, 1253-1258.	0.2	12
110	Effect of chromium on the electronic structure and magnetic properties of cementite. <i>Physics of Metals and Metallography</i> , 2008, 105, 568-573.	0.3	12
111	Magnetic properties and electronic structure of the $LaGaO_3$ perovskite doped with nickel. <i>Physics of the Solid State</i> , 2008, 50, 2121-2126.	0.2	12
112	Electronic structure and magnetic properties of $Fe_3C$ with 2p and 3p impurities. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2167-2171.	0.7	12
113	The influence of nitrogen vacancies on the magnetic and electronic properties of ruthenium mononitride: First-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 3624-3629.	1.0	12
114	Composition of beryllium oxide ceramics. <i>Refractories and Industrial Ceramics</i> , 2011, 51, 377-381.	0.2	12
115	Electronic, optical properties and chemical bonding in six novel 1111-like chalcogenide fluorides $AMChF$ ( $A=Sr, Ba$ ; $M=Cu, Ag$ ; and $Ch=S, Se, Te$ ) from first principles calculations. <i>Journal of Solid State Chemistry</i> , 2012, 196, 601-606.	1.4	12
116	Structural, electronic, elastic properties and chemical bonding in $LaNi_2P_2$ and $LaNi_2Ge_2$ from first principles. <i>Intermetallics</i> , 2012, 26, 1-7.	1.8	12
117	Synthesis and characterisation of new $MO(OH)_2$ ( $M = Zr, Hf$ ) oxyhydroxides and related $Li_2MO_3$ salts. <i>Dalton Transactions</i> , 2014, 43, 2755-2763.	1.6	12
118	Quinate:NAP(P) <sup>+</sup> -oxidoreductase from <i>Larix sibirica</i> : purification, characterization and function. <i>Trees - Structure and Function</i> , 1995, 10, 46.	0.9	11
119	Short-range atomic order in Fe <sub>2</sub> B powders. <i>Physics of Metals and Metallography</i> , 2007, 103, 470-480.	0.3	11
120	Influence of carbon, nitrogen and oxygen impurities on the ductility and electronic properties of fcc iridium: First-principles study. <i>Solid State Communications</i> , 2009, 149, 1807-1809.	0.9	11
121	Effect of spin-orbit coupling on structural, electronic, and mechanical properties of cubic thorium monocarbide ThC. <i>Physics of the Solid State</i> , 2010, 52, 2039-2043.	0.2	11
122	Origin of incompressibility and hardness from electronic and mechanical properties of hard material ruthenium diboride. <i>Solid State Communications</i> , 2010, 150, 1095-1098.	0.9	11
123	Electronic bands, Fermi surface, and elastic properties of new 4.2K superconductor $SrPtAs$ with a honeycomb structure from first principles calculations. <i>Physica C: Superconductivity and Its Applications</i> , 2011, 471, 594-596.	0.6	11
124	Elastic properties and inter-atomic bonding in new superconductor from first principles calculations. <i>Solid State Communications</i> , 2011, 151, 671-673.	0.9	11
125	Charge distribution and mobility of lithium ions in $Li_2TiO_3$ from $^6,7Li$ NMR data. <i>Journal of Structural Chemistry</i> , 2013, 54, 111-118.	0.3	11
126	Synthesis, optical properties, and photocatalytic activity of lanthanide-doped anatase. <i>Russian Journal of Inorganic Chemistry</i> , 2014, 59, 29-33.	0.3	11



#	ARTICLE	IF	CITATIONS
127	Electronic Properties and Fermi Surface for New Layered High-Temperature Superconductors CaAF <sub>4</sub> As <sub>4</sub> (A = K, Rb, and Cs): FLAPW-GGA Calculations. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1683-1692.	0.8	11
128	Electronic and magnetic properties of new quaternary oxybismuthides LaOMBi (where M=V, Cr, Ni, Tj) Tj ETQq0 0 0 rgBT /Overlock 100 5838-5840.	0.9	10
129	Structural, elastic, electronic and magnetic properties of ThCr <sub>2</sub> Si <sub>2</sub> from first-principles calculations. Solid State Communications, 2011, 151, 1165-1168.	0.9	10
130	Elastic and Electronic Properties of Superconducting CaPd <sub>2</sub> As <sub>2</sub> and SrPd <sub>2</sub> As <sub>2</sub> vs. Non-superconducting BaPd <sub>2</sub> As <sub>2</sub> . Journal of Superconductivity and Novel Magnetism, 2014, 27, 155-161.	0.8	10
131	Experimental investigation and ab initio calculation of the properties of Sc-, in-doped bismuth titanates with the pyrochlore type structure. Physics of the Solid State, 2017, 59, 495-503.	0.2	10
132	Cesium adsorption on the $\sqrt{2}\times\sqrt{2}$ -GaAs(001) surface. Journal of Experimental and Theoretical Physics, 2007, 104, 590-601.	0.2	9
133	Atomic models of non-stoichiometric layered diborides M <sub>1-x</sub> B <sub>2</sub> (M=Mg, Al, Zr and Nb) from first principles. Physica C: Superconductivity and Its Applications, 2008, 468, 2224-2228.	0.6	9
134	Elastic properties of carbide, nitride, and boride ceramics with WC-type structures. Technical Physics Letters, 2008, 34, 841-844.	0.2	9
135	Hydrogen-induced enhancement of ductility of fcc iridium: A first-principles study. Materials Letters, 2009, 63, 2413-2415.	1.3	9
136	Ab initio predictions of stability and electronic properties of cubic rhodium carbides RhC <sub>x</sub> as dependent on carbon content. Physica Status Solidi - Rapid Research Letters, 2009, 3, 218-220.	1.2	9
137	Electronic band structure, optical absorption and photocatalytic activity of anatase doped with bismuth or carbon. Journal of Alloys and Compounds, 2013, 548, 46-51.	2.8	9
138	New half-metallic ferromagnets: Double perovskites SR(FeM)O <sub>3</sub> (M = Sn, Ti, Zr). JETP Letters, 2005, 82, 220-223.	0.4	8
139	Electronic structure of tungsten aluminum carbides W <sub>2</sub> AlC and WAlC <sub>2</sub> . Russian Journal of Inorganic Chemistry, 2009, 54, 1433-1439.	0.3	8
140	Fe and C doped TiO <sub>2</sub> with different aggregate architecture: Synthesis, optical, spectral and photocatalytic properties, first-principle calculation. Journal of Physics and Chemistry of Solids, 2017, 111, 473-486.	1.9	8
141	Elastic properties and chemical bonding in fluoritelike Be <sub>2</sub> B, AlBeB, MgBeB, and NaBeB. Journal of Structural Chemistry, 2005, 46, 535-537.	0.3	7
142	Electronic structure of cubic thorium monocarbide and hexaboride. Doklady Physical Chemistry, 2006, 407, 106-109.	0.2	7
143	First-principle quantum-chemical calculations of several thermomechanical parameters of beryllium ceramics. Refractories and Industrial Ceramics, 2006, 47, 310-313.	0.2	7
144	Band structure of a new (16 $\pm$ 18 K) superconductor LiFeAs compared to Li <sub>0.5</sub> FeAs and LiCoAs. JETP Letters, 2008, 88, 329-333.	0.4	7

#	ARTICLE	IF	CITATIONS
145	Band structure of new layered superconductors BaRh <sub>2</sub> P <sub>2</sub> and BaIr <sub>2</sub> P <sub>2</sub> . JETP Letters, 2009, 89, 357-361.	0.4	7
146	The influence of carbon non-stoichiometry on the electronic properties of thorium monocarbide ThC. Solid State Sciences, 2010, 12, 1580-1584.	1.5	7
147	Electronic band structure and inter-atomic bonding in layered 1111-like Th-based pnictide oxides ThCuPO, ThCuAsO, ThAgPO, and ThAgAsO from first principles calculations. Computational Materials Science, 2011, 50, 2736-2740.	1.4	7
148	Ab initio study of the nature of the chemical bond and electronic structure of the layered phase Ca <sub>10</sub> (Pt <sub>4</sub> As <sub>8</sub> )(Fe <sub>2</sub> As <sub>2</sub> ) <sub>5</sub> as a parent system in the search for new superconducting iron-containing materials. Theoretical and Experimental Chemistry, 2011, 47, 292-295.	0.2	7
149	Structural, elastic and electronic properties of Ir-based carbides-antiperovskites Ir <sub>3</sub> M <sub>2</sub> C (M = Ti, Zr). JETP Letters, 2011, 93, 60-68.	0.784314	7
150	Electronic Band Structure of the Fluorite-like Borides AlBeB, MgBeB, and NaBeB. Inorganic Materials, 2003, 39, 694-695.	0.2	6
151	Electronic Structure and Chemical Bonding in Crystalline and Nanosized Forms of Magnesium Diboride. Doklady Physical Chemistry, 2003, 388, 43-47.	0.2	6
152	Effect of Lattice Vacancies on the Band Structure of the Ag <sub>5</sub> Pb <sub>2</sub> O <sub>6</sub> Ternary Oxide. Physics of the Solid State, 2005, 47, 599.	0.2	6
153	Ultrasound velocity and absorption in BeO, Al <sub>2</sub> O <sub>3</sub> , ZrO <sub>2</sub> , and SiO <sub>2</sub> ceramics. Inorganic Materials, 2007, 43, 1361-1364.	0.2	6
154	Band structure of (Sr <sub>3</sub> Sc <sub>2</sub> O <sub>5</sub> )Fe <sub>2</sub> As <sub>2</sub> as a possible basis phase of new FeAs superconductors. JETP Letters, 2009, 89, 41-45.	0.4	6
155	Electronic structure of Ti-doped Sr <sub>4</sub> Sc <sub>2</sub> Fe <sub>2</sub> As <sub>2</sub> O <sub>6</sub> as a possible parent phase for the new FeAs superconductors. Open Physics, 2010, 8, .	0.8	6
156	Structural, electronic, and magnetic properties of CaCNi <sub>3</sub> , SrCNi <sub>3</sub> , and BaCNi <sub>3</sub> antiperovskites in comparison to superconducting MgCNi <sub>3</sub> . Journal of Structural Chemistry, 2010, 51, 170-172.	0.3	6
157	Stability, structural, elastic and electronic properties of RuN polymorphs from first-principles calculations. Solid State Communications, 2010, 150, 953-956.	0.9	6
158	Structural, electronic, and magnetic properties of tungsten oxycarbides WC <sub>x</sub> O <sub>x</sub> and WO <sub>3-x</sub> C <sub>x</sub> from first principles calculations. Physica Status Solidi (B): Basic Research, 2011, 248, 2884-2892.	0.7	6
159	Electronic band structure and Fermi surface of new 3.7K superconductor LiCu <sub>2</sub> P <sub>2</sub> from first-principles calculations. Physica C: Superconductivity and Its Applications, 2011, 471, 226-228.	0.6	6
160	Ab initio probing of the electronic band structure and Fermi surface of fluorine-doped WO <sub>3</sub> as a novel low-T C superconductor. JETP Letters, 2012, 95, 66-69.	0.4	6
161	Structural, elastic and electronic properties of new layered superconductor HfCuGe <sub>2</sub> in comparison with isostructural HfCuSi <sub>2</sub> , ZrCuGe <sub>2</sub> , and ZrCuSi <sub>2</sub> from first-principles calculations. Intermetallics, 2013, 42, 130-136.	1.8	6
162	Impurity centers and electronic band structure of lithium-doped cadmium oxide. Ceramics International, 2018, 44, 17313-17318.	2.3	6

#	ARTICLE	IF	CITATIONS
163	Effect of Li and Li-RE co-doping on structure, stability, optical and electrical properties of bismuth magnesium niobate pyrochlore. <i>Materials Research Bulletin</i> , 2022, 145, 111520.	2.7	6
164	Electronic properties of superconducting ternary alloys $(\text{Ca,Sr,Ba})(\text{Ga}_{1-x}\text{Six})_2$ with AlB <sub>2</sub> -like structure. <i>Computational Materials Science</i> , 2006, 36, 203-206.	1.4	5
165	Effect of metal vacancies on the energy parameters of s-, p-, and d-metal diborides. <i>Russian Journal of Inorganic Chemistry</i> , 2007, 52, 238-241.	0.3	5
166	Simulation of the structural, electronic, and magnetic properties of $\text{Fe}_3\text{Cl}_{1-x}\text{B}_x$ borocementites. <i>Physics of the Solid State</i> , 2007, 49, 2298-2302.	0.2	5
167	Energy band structure and X-ray spectra of phenakite $\text{Be}_2\text{SiO}_4$ . <i>Physics of the Solid State</i> , 2008, 50, 615-620.	0.2	5
168	Electronic structure of tungsten carbonitrides $\text{WC}_{1-x}\text{N}_x$ . <i>Journal of Structural Chemistry</i> , 2009, 50, 1-9.	0.3	5
169	Band structure of new layered arsenides $\text{SrRu}_2\text{As}_2$ and $\text{BaRu}_2\text{As}_2$ . <i>Physics of the Solid State</i> , 2010, 52, 6-11.	0.2	5
170	Single crystals and light-transmitting BeO-ceramic for electronic technology. <i>Refractories and Industrial Ceramics</i> , 2010, 51, 167-171.	0.2	5
171	Magnetic and Electronic Properties of Nitrogen-Doped Lanthanum Sesquioxide $\text{La}_2\text{O}_3$ as Predicted from First Principles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011, 24, 1693-1696.	0.8	5
172	Impurity-Induced Magnetization of Layered Semiconductor $\text{LaCuSeO}$ as Predicted from First-Principles Calculations. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 1509-1513.	0.8	5
173	Pressure-induced zircon to monazite phase transition in $\text{Y}_1\text{La}_{\tilde{N}}\text{PO}_4$ : First-principles calculations. <i>Journal of Structural Chemistry</i> , 2016, 57, 1513-1518.	0.3	5
174	Energy Bands and Chemical Binding in $\text{MgCNi}_3$ Superconductor. <i>Journal of Structural Chemistry</i> , 2002, 43, 168-171.	0.3	4
175	Electronic structure of $\text{Al}_2\text{O}_3$ in the bulk and on the surface. <i>Russian Physics Journal</i> , 2005, 48, 1127-1133.	0.2	4
176	Electronic properties of $\text{ThSiO}_4$ polymorphs (thorite and huttonite) from first principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, R44-R46.	0.7	4
177	Effect of high doses on the Si L <sub>2,3</sub> x-ray emission spectra of silicon implanted with iron ions under steady-state conditions. <i>Physics of the Solid State</i> , 2007, 49, 75-81.	0.2	4
178	Vacancy-induced magnetism of beryllium monoxide. <i>Journal of Structural Chemistry</i> , 2007, 48, 1145-1147.	0.3	4
179	Chemical bonding in $\text{LaFeAsO}$ , $\text{SrFe}_2\text{As}_2$ , and $\text{LiFeAs}$ : Basic phases of new 18-56 K superconductors. <i>Journal of Structural Chemistry</i> , 2009, 50, 552-555.	0.3	4
180	Band structure of a new layered $\text{La}_3\text{Ni}_4\text{P}_4\text{O}_2$ superconductor. <i>JETP Letters</i> , 2009, 89, 285-289.	0.4	4

#	ARTICLE	IF	CITATIONS
181	Ab initio prediction of new 3D-like phases ThCuSiAs, ThCuGeAs and their structural, mechanical, and electronic properties. <i>Journal of Materials Science</i> , 2012, 47, 6741-6747.	1.7	4
182	Structural, electronic, mechanical, and magnetic properties and relative stability of polymorphic modifications of ReN <sub>2</sub> from Ab initio calculation data. <i>Physics of the Solid State</i> , 2013, 55, 1821-1825.	0.2	4
183	Electronic band structure and optical absorption of nanotubular zinc oxide doped with Iron, Cobalt, or Copper. <i>Physics of the Solid State</i> , 2013, 55, 2450-2458.	0.2	4
184	First-principles calculations of elastic and electronic properties of tetragonal Th <sub>2</sub> NiC <sub>2</sub> as a parent phase for new superconductors. <i>Journal of Alloys and Compounds</i> , 2013, 551, 338-342.	2.8	4
185	Metal-metal bond excitation in colloidal solution of NbS <sub>3</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 179, 46-50.	2.0	4
186	Electronic and mechanical properties, phase stability, and formation energies of point defects of niobium boronitride Nb <sub>2</sub> BN. <i>Physics of the Solid State</i> , 2017, 59, 1481-1491.	0.2	4
187	Interatomic interactions and electronic structure of NbSe <sub>2</sub> and Nb <sub>1.25</sub> Se <sub>2</sub> nanotubes. <i>Journal of Structural Chemistry</i> , 2004, 45, 547-556.	0.3	3
188	Electronic properties of the novel 18-K superconducting Y <sub>2</sub> C <sub>3</sub> as compared with 4-K YC <sub>2</sub> from first principles calculations. <i>Solid State Communications</i> , 2004, 131, 223-223.	0.9	3
189	Electronic structure of tetragonal thorium silicate in comparison with thorium dioxide. <i>Doklady Physical Chemistry</i> , 2006, 409, 198-201.	0.2	3
190	Structural, elastic and electronic properties of metastable diamond-like Ti, Fe and Zn monocarbides: Density functional-based tight binding calculations. <i>Diamond and Related Materials</i> , 2007, 16, 243-247.	1.8	3
191	Synthesis, crystal structure, and electronic properties of double orthovanadate Sr <sub>2</sub> Bi <sub>2/3</sub> (VO <sub>4</sub> ) <sub>2</sub> . <i>Doklady Physical Chemistry</i> , 2007, 415, 186-189.	0.2	3
192	Influence of carbon vacancies on the electronic properties of solid solutions in the W-Al-C system from first principles calculations. <i>Doklady Physical Chemistry</i> , 2009, 424, 14-16.	0.2	3
193	Electronic structure and magnetic properties of RhH <sub>x</sub> (x = 0.25, 1.00, 1.33) rhodium hydrides according to the FLAPW-GGA band calculation data. <i>Journal of Structural Chemistry</i> , 2010, 51, 956-959.	0.3	3
194	Nanotubes of layered iron-based superconductors: Simulations of atomic structure and electronic properties. <i>Computational Materials Science</i> , 2011, 50, 824-827.	1.4	3
195	Electronic band structure and Fermi surface of new low-temperature Ni-based superconductors: 3.3K (Ni <sub>2</sub> P <sub>2</sub> )(Sr <sub>4</sub> Sc <sub>2</sub> O <sub>6</sub> ) and 2.7K (Ni <sub>2</sub> As <sub>2</sub> )(Sr <sub>4</sub> Sc <sub>2</sub> O <sub>6</sub> ) from first principles. <i>Physica B: Condensed Matter</i> , 2011, 406, 676-682.	1.3	3
196	Ab Initio Probing of the Magnetic and Electronic Properties of ThCr <sub>2</sub> Si <sub>2</sub> -Like Charge-Balanced KFeAgTe <sub>2</sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 151-154.	0.8	3
197	Mechanical properties and electronic structure of zircon: Ab initio FLAPW-GGA calculations. <i>Inorganic Materials: Applied Research</i> , 2012, 3, 7-10.	0.1	3
198	Effect of fluorine, nitrogen, and carbon impurities on the electronic and magnetic properties of WO <sub>3</sub> . <i>Semiconductors</i> , 2013, 47, 740-744.	0.2	3

#	ARTICLE	IF	CITATIONS
199	Elastic Properties of New Pt-based Superconductors CaPt <sub>3</sub> P and SrPt <sub>3</sub> P as Evaluated from First-Principles Calculations. Journal of Superconductivity and Novel Magnetism, 2013, 26, 3167-3170.	0.8	3
200	Effect of 4d metal impurities on the structure, electronic properties, and stability of hexagonal WC from data of FLAPW-GGA calculations. Physics of the Solid State, 2010, 52, 2450-2457.	0.2	2
201	Magnetization of zircon induced by 3d impurities: Ab initio calculations. Doklady Physical Chemistry, 2011, 438, 90-93.	0.2	2
202	Structural, electronic properties and inter-atomic bonding in layered iron pnictide oxides (Fe <sub>2</sub> As <sub>2</sub> )(Sr <sub>4</sub> O <sub>6</sub> ), where M are Mg and Ti. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2075-2078.	0.9	2
203	Electronic properties of ThCr <sub>2</sub> Si <sub>2</sub> -type charge-balanced KFe <sub>2</sub> Si <sub>2</sub> phases. Computational Materials Science, 2012, 60, 1-6.	1.1	2
204	Trends in structural, electronic properties and Fermi surface topology of 15 tetragonal ThCr <sub>2</sub> Si <sub>2</sub> -type phases AFe <sub>2</sub> Ch <sub>2</sub> , where A=Li, Na, K, Rb, and Cs; Ch=S, Se, and Te, as parent systems of new ternary iron chalcogenide superconductors. Computational Materials Science, 2012, 60, 1-6.	1.4	2
205	Electronic, magnetic properties and correlation effects in the layered quaternary iron oxyselenide Na <sub>2</sub> Fe <sub>2</sub> Se <sub>2</sub> O from first principles. Solid State Communications, 2012, 152, 1969-1972.	0.9	2
206	The influence of oxygen deficiency on structural and electronic properties of layered superconductor (Fe <sub>2</sub> As <sub>2</sub> )(Sr <sub>4</sub> V <sub>2</sub> O <sub>6</sub> ) <sub>1-x</sub> . Journal of Materials Science, 2012, 47, 3663-3668.	1.7	2
207	The effect of arsenic vacancies on the electronic and magnetic properties of LaFeAs <sub>1-x</sub> O. Journal of Magnetism and Magnetic Materials, 2013, 335, 21-27.	1.0	2
208	Electronic structure and formation energies of nonstoichiometric dichalcogenides M <sub>x</sub> X <sub>2</sub> (M = Nb, Tj ETQq0,0,0 rgBT / Overlock 10,3 2	0.3	2
209	Molecular dynamics simulations of defect formation in thin graphite films using the density functional tight-binding method. Journal of Structural Chemistry, 2016, 57, 808-811.	0.3	2
210	Structure and Thermodynamic Characteristics of Impurity Centers in Lithium-Doped Cadmium Oxide: an Ab Initio Paw-Study. Journal of Structural Chemistry, 2018, 59, 253-260.	0.3	2
211	Thermodynamic properties and lattice dynamics investigation of LuB <sub>2</sub> C: experiment and ab initio calculations. Physical Chemistry Chemical Physics, 2019, 21, 24684-24694.	1.3	2
212	Lattice vacancies and electronic properties of zirconium hydrides. Journal of the Less Common Metals, 1990, 167, 1-9.	0.9	1
213	Electronic band structure and stability of fluorite-like phases in the Mg-Sn-B system. Inorganic Materials, 2006, 42, 7-13.	0.2	1
214	Velocity and absorption of ultrasound in beryllium oxide ceramic. Glass and Ceramics (English) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 142 0,2 1	0.2	1
215	Effect of Li and Na impurities on the electronic and magnetic properties of beryllium oxide. Journal of Structural Chemistry, 2010, 51, 960-963.	0.3	1
216	Structural, electronic, and magnetic properties of layered cobalt pnictide oxides (Co <sub>2</sub> As <sub>2</sub> )(Sr <sub>4</sub> Sc <sub>2</sub> O <sub>6</sub> ) and (Co <sub>2</sub> P <sub>2</sub> )(Sr <sub>4</sub> Sc <sub>2</sub> O <sub>6</sub> ) from first principles. Solid State Sciences, 2011, 13, 837-842.	1.5	1

#	ARTICLE	IF	CITATIONS
217	23Na NMR in binary lithium-sodium cobaltite. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 1157-1159.	0.1	1
218	Electronic band structure of pseudo-binary AlB <sub>2</sub> -like hexagonal silicides SrNixSi <sub>2</sub> <sup>x</sup> as novel low-TC superconductors. Physica B: Condensed Matter, 2012, 407, 4592-4594.	1.3	1
219	Correlated band structure of superconducting NdFeAsO <sub>0.9</sub> F <sub>0.1</sub> : Dynamical mean-field study. JETP Letters, 2013, 98, 373-377.	0.4	1
220	Ab initio Probing of Magnetic and Electronic Properties of Monoclinic μ-WO <sub>3</sub> Doped with 3d Transition Metals Within GGA and GGA+U. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2343-2346.	0.8	1
221	Electronic Structure of Fluorite-Like TiF <sub>2</sub> . Physica Status Solidi (B): Basic Research, 1990, 157, K29.	0.7	0
222	Estimate of the solubility of titanium in beryllium oxide based on quantum-chemical calculations. Glass and Ceramics (English Translation of Steklo I Keramika), 2007, 64, 439-441.	0.2	0
223	Specific features of steady-state implantation of crystalline silicon with a molecular oxygen-nitrogen beam: Si L <sub>2,3</sub> x-ray emission spectra. Physics of the Solid State, 2008, 50, 146-151.	0.2	0
224	First principles calculations of structural states of nonstoichiometric (B/Mg > 2) magnesium diboride. Doklady Physical Chemistry, 2008, 420, 140-143.	0.2	0
225	Structure-induced semiconductor → metal transition in lead monosulfide PbS: Ab initio calculations. Doklady Physical Chemistry, 2011, 437, 50-53.	0.2	0
226	Elastic properties and interatomic bonding in layered Fe <sub>2</sub> CuAs <sub>2</sub> O <sub>2</sub> . Physica Status Solidi (B): Basic Research, 2011, 248, 2165-2169.	0.7	0
227	Electronic structure, Fermi surface, and chemical bonding in new layered oxyselenide: HgCuSeO. Journal of Structural Chemistry, 2012, 53, 634-638.	0.3	0
228	Electronic band structure, Fermi surface, structural and elastic properties of two polymorphs of MgFeSeO as possible new superconducting systems. JETP Letters, 2014, 98, 609-613.	0.4	0
229	Electronic structure of non-stoichiometric ZrCuSiAs-like layered LaZnAsO <sub>1-x</sub> compositions: FLAPW-GGA modeling. Journal of Structural Chemistry, 2016, 57, 805-807.	0.3	0
230	Mechanical and Dynamic Stability of Complete and Nonstoichiometric 3C-SixCy from Ab Initio Calculations. Physics of the Solid State, 2018, 60, 2012-2018.	0.2	0
231	On the effect of non-stoichiometry on electronic and magnetic properties of BiOCuS layered oxysulfide: A preliminary consideration based on ab initio band structure simulations. Computational Condensed Matter, 2018, 16, e00306.	0.9	0
232	Structural and Electronic Properties and Chemical Bonding in Layered 1111-Oxyarsenides LaRhAsO and LaIrAsO: Ab Initio Simulation. Journal of Structural Chemistry, 2019, 60, 1859-1867.	0.3	0
233	10.1007/s11451-008-1026-z. , 2010, 50, 146.		0