

Igor R Shein

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232
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235
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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
232	Graphene-like titanium carbides and nitrides $Ti_{n+1}C_n$, $Ti_{n+1}N_n$ ($n = 1, 2, \text{ and } 3$) from de-intercalated MAX phases: First-principles probing of their structural, electronic properties and relative stability. <i>Computational Materials Science</i> , 2012 , 65, 104-114	3.2	201
231	Elastic properties of mono- and polycrystalline hexagonal AlB_2 -like diborides of s, p and d metals from first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 415218	1.8	190
230	Electronic structure, chemical bonding and elastic properties of the first thorium-containing nitride perovskite $TaThN_3$. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007 , 1, 89-91	2.5	184
229	Electronic and structural properties of cementite-type M_3X ($M=Fe, Co, Ni; X=C \text{ or } B$) by first principles calculations. <i>Physica B: Condensed Matter</i> , 2006 , 371, 126-132	2.8	108
228	Elastic properties of quaternary oxypnictides $LaOFeAs$ and $LaOFeP$ as basic phases for new $26B2K$ superconducting materials from first principles. <i>Scripta Materialia</i> , 2008 , 59, 1099-1102	5.6	80
227	First-principles calculations of the elastic and electronic properties of the cubic perovskites $SrMO_3$ ($M=Ti, V, Zr \text{ and } Nb$) in comparison with $SrSnO_3$. <i>Solid State Sciences</i> , 2008 , 10, 217-225	3.4	74
226	Structural, electronic and magnetic properties of Ta carbides ($Fe_3W_3C, Fe_6W_6C, Co_3W_3C$ and Co_6W_6C) from first principles calculations. <i>Physica B: Condensed Matter</i> , 2009 , 404, 3544-3549	2.8	72
225	Graphene-like nanocarbides and nanonitrides of d metals (MXenes): synthesis, properties and simulation. <i>Micro and Nano Letters</i> , 2013 , 8, 59-62	0.9	66
224	Elastic and electronic properties of hexagonal and cubic polymorphs of tungsten monocarbide WC and mononitride WN from first-principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 1590-1597	1.3	63
223	Structural, electronic properties and stability of tungsten mono- and semi-carbides: A first principles investigation. <i>Journal of Physics and Chemistry of Solids</i> , 2009 , 70, 64-71	3.9	62
222	Band structure of ZrB_2, VB_2, NbB_2 , and TaB_2 hexagonal diborides: Comparison with superconducting MgB_2 . <i>Physics of the Solid State</i> , 2002 , 44, 1833-1839	0.8	62
221	Band structure and the magnetic and elastic properties of $SrFeO_3$ and $LaFeO_3$ perovskites. <i>Physics of the Solid State</i> , 2005 , 47, 2082	0.8	62
220	Electronic and structural properties of low-temperature superconductors and ternary pnictides ANi_2Pn_2 ($A=Sr, Ba \text{ and } Pn=P, As$). <i>Physical Review B</i> , 2009 , 79,	3.3	60
219	Electronic structure and Fermi surface of new K intercalated iron selenide superconductor $KxFe_2Se_2$. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 1028-1031	2.3	57
218	Elastic properties of superconducting MAX phases from first-principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 228-232	1.3	56
217	First principle prediction of vacancy-induced magnetism in non-magnetic perovskite $SrTiO_3$. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 371, 155-159	2.3	51
216	Elastic and electronic properties and stability of $SrThO_3, SrZrO_3$ and ThO_2 from first principles. <i>Journal of Nuclear Materials</i> , 2007 , 361, 69-77	3.3	49

215	Magnetism without magnetic ions in non-magnetic perovskites SrTiO ₃ , SrZrO ₃ and SrSnO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 936-942	2.8	49
214	Planar nano-block structures Ti _{n+1} Al _{0.5} C _n and Ti _{n+1} C _n (n=1, and 2) from MAX phases: Structural, electronic properties and relative stability from first principles calculations. <i>Superlattices and Microstructures</i> , 2012 , 52, 147-157	2.8	48
213	Elastic properties of antiperovskite-type Ni-rich nitrides MNi ₃ (M=Zn, Cd, Mg, Al, Ga, In, Sn, Sb, Pd, Cu, Ag and Pt) as predicted from first-principles calculations. <i>Physica B: Condensed Matter</i> , 2010 , 405, 4615-4619	2.8	48
212	Electronic structure and magnetism in BeO nanotubes induced by boron, carbon and nitrogen doping, and beryllium and oxygen vacancies inside tube walls. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 41, 164-168	3	47
211	First-principle study of B1-like thorium carbide, nitride and oxide. <i>Journal of Nuclear Materials</i> , 2006 , 353, 19-26	3.3	47
210	Structural, elastic and electronic properties of superconducting anti-perovskites MgCNi ₃ , ZnCNi ₃ and CdCNi ₃ from first principles. <i>Physica C: Superconductivity and Its Applications</i> , 2008 , 468, 1-6	1.3	46
209	Elastic parameters of single-crystal and polycrystalline wurtzite-like oxides BeO and ZnO: Ab initio calculations. <i>Physics of the Solid State</i> , 2007 , 49, 1067-1073	0.8	45
208	Electronic structure of new oxygen-free 38-K superconductor Ba _{1-x} K _x Fe ₂ As ₂ in comparison with BaFe ₂ As ₂ from the first principles. <i>JETP Letters</i> , 2008 , 88, 107-110	1.2	44
207	Electronic band structure, Fermi surface, and elastic properties of polymorphs of the 5.2 K iron-free superconductor SrPt ₂ As ₂ from first-principles calculations. <i>Physical Review B</i> , 2011 , 83,	3.3	39
206	Influence of lattice vacancies on the structural, electronic, and cohesive properties of niobium and molybdenum borides from first-principles calculations. <i>Physical Review B</i> , 2006 , 73,	3.3	39
205	Elastic and electronic properties of hexagonal rhenium sub-nitrides Re ₃ N and Re ₂ N in comparison with hcp-Re and wurtzite-like rhenium mononitride ReN. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 1369-1374	1.3	35
204	Structural, elastic, electronic properties and Fermi surface for superconducting Mo ₂ GaC in comparison with V ₂ GaC and Nb ₂ GaC from first principles. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, 533-537	1.3	35
203	Structural and electronic properties of the 17 K superconductor Sr ₂ ScFePO ₃ in comparison to Sr ₂ ScFeAsO ₃ from first principles calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	32
202	Elastic properties and chemical bonding in ternary arsenide SrFe ₂ As ₂ and quaternary oxyarsenide LaFeAsO [Basic phases for new 38K superconductors from first principles. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 15-19	1.3	32
201	Magnetization of carbon-doped MgO nanotubes. <i>Physical Review B</i> , 2007 , 75,	3.3	32
200	Effect of Co doping on the electronic structure of MgCNi ₃ . <i>Physical Review B</i> , 2002 , 66,	3.3	32
199	Band structure of new superconducting AlB ₂ -like ternary silicides M(Al _{0.5} Si _{0.5}) ₂ and M(Ga _{0.5} Si _{0.5}) ₂ (where M = Ca, Sr and Ba). <i>Journal of Physics Condensed Matter</i> , 2003 , 15, L541-L545	1.8	31
198	Band structure of superconducting dodecaborides YB ₁₂ and ZrB ₁₂ . <i>Physics of the Solid State</i> , 2003 , 45, 1429-1434	0.8	31

197	Electronic structure and properties of beryllium oxide. <i>Inorganic Materials</i> , 2009 , 45, 223-234	0.9	30
196	Localization of vacancies and mobility of lithium ions in Li ₂ ZrO ₃ as obtained by 6,7Li NMR. <i>Journal of Solid State Chemistry</i> , 2013 , 208, 43-49	3.3	28
195	Electronic and Magnetic Properties of Superconducting Sr ₄ V ₂ Fe ₂ As ₂ O ₆ Versus Sr ₄ Sc ₂ Fe ₂ As ₂ O ₆ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 613-617	1.5	28
194	Electronic band structure and Fermi surface for new layered superconductor LaO _{0.5} F _{0.5} BiS ₂ in comparison with parent phase LaOBiS ₂ from first principles. <i>JETP Letters</i> , 2013 , 96, 769-774	1.2	27
193	Electronic band structure of new 122Dpnictogen-free superconductor SrPd ₂ Ge ₂ as compared with SrNi ₂ Ge ₂ and SrNi ₂ As ₂ from first principles calculations. <i>Physica B: Condensed Matter</i> , 2010 , 405, 3213-3216	2.8	27
192	Electronic and elastic properties of non-oxide anti-perovskites from first principles: Superconducting CdCNi ₃ in comparison with magnetic InCNi ₃ . <i>Physical Review B</i> , 2008 , 77,	3.3	26
191	Structural, elastic and electronic properties and formation energies for hexagonal (W _{0.5} Al _{0.5})C in comparison with binary carbides WC and Al ₄ C ₃ from first-principles calculations. <i>Physica B: Condensed Matter</i> , 2008 , 403, 2654-2661	2.8	26
190	New superconductor with a layered crystal structure: Nickel oxybismuthide LaO _{1-x} NiBi. <i>JETP Letters</i> , 2008 , 87, 649-651	1.2	25
189	Electronic band structure and chemical bonding in the new antiperovskites AsNMg ₃ and SbNMg ₃ . <i>Journal of Solid State Chemistry</i> , 2004 , 177, 61-64	3.3	25
188	Electronic properties of the novel 18-K superconducting Y ₂ C ₃ as compared with 4-K YC ₂ from first principles calculations. <i>Solid State Communications</i> , 2004 , 131, 223-227	1.6	24
187	Electronic structure and thermoelectric properties of skutterudite compounds. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 979-987	1.8	24
186	Electronic properties of hexagonal tungsten monocarbide (h-WC) with 3d impurities from first-principles calculations. <i>Physica B: Condensed Matter</i> , 2009 , 404, 1887-1891	2.8	23
185	Electronic structure and magnetic properties of Fe ₃ C with 3d and 4d impurities. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1971-1981	1.3	23
184	Thorium compounds with non-metals: Electronic structure, chemical bond, and physicochemical properties. <i>Journal of Structural Chemistry</i> , 2008 , 49, 348-370	0.9	23
183	Electronic properties of new Ca(Al _x Si _{1-x}) ₂ and Sr(Ga _x Si _{1-x}) ₂ superconductors in crystalline and nanotubular states. <i>JETP Letters</i> , 2002 , 76, 189-193	1.2	23
182	Electronic band structure and Fermi surface of tetragonal low-temperature superconductor Bi ₂ Pd as predicted from first principles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 1-4	1.5	22
181	Electronic properties of novel 6 K superconductor LiFeP in comparison with LiFeAs from first principles calculations. <i>Solid State Communications</i> , 2010 , 150, 152-156	1.6	22
180	Elastic and electronic properties of the new perovskite-like superconductor ZnNNi ₃ in comparison with MgCNi ₃ . <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 72-76	1.3	22

179	Novel magnetic half-metallic materials based on ionic insulators doped with nonmagnetic impurities: MgO + B, C, N Systems. <i>Technical Physics Letters</i> , 2007 , 33, 541-544	0.7	22
178	Electronic structure and magnetic properties of double perovskites Sr ₂ FeMO ₆ (M = Sc, Ti, ..., Ni, Cu) according to the data of FLAPW-GGA band structure calculations. <i>Journal of Structural Chemistry</i> , 2008 , 49, 781-787	0.9	22
177	Structural, luminescence, and electronic properties of the alkaline metal-strontium cyclotetranavanadates M ₂ Sr(VO ₃) ₄ , (M=Na, K, Rb, Cs). <i>Physical Review B</i> , 2005 , 72,	3.3	22
176	Electronic properties and chemical bonding in quaternary arsenide oxides LaZnAsO and YZnAsO. <i>Materials Chemistry and Physics</i> , 2009 , 116, 129-133	4.4	21
175	Electronic structure and Fermi surface of the superconductors LaNiBiO and LaCuBiO from first principles. <i>Physical Review B</i> , 2008 , 78,	3.3	21
174	Non-stoichiometric s-, p- and d-metal diborides: synthesis, properties and simulation. <i>Russian Chemical Reviews</i> , 2008 , 77, 467-486	6.8	21
173	Structural, electronic, magnetic and elastic properties of tetragonal layered diselenide KCo ₂ Se ₂ from first principles calculations. <i>Physica B: Condensed Matter</i> , 2012 , 407, 271-275	2.8	20
172	Band structure, elastic and magnetic properties, and stability of antiperovskites MCNi ₃ (M = Y, Ag) according to FLAPW-GGA calculations. <i>Physics of the Solid State</i> , 2007 , 49, 1704-1714	0.8	20
171	Electronic band structure of thorium hydrides: ThH ₂ and Th ₄ H ₁₅ . <i>Physica B: Condensed Matter</i> , 2007 , 389, 296-301	2.8	19
170	Ab initio calculations of the electronic properties of new superconducting nanolaminates: Nb ₂ SnC and Nb ₂ SC _{1-x} . <i>Doklady Physical Chemistry</i> , 2006 , 411, 317-321	0.8	19
169	The influence of oxygen vacancies on the electronic and magnetic properties of perovskite-like SrFeO _{3-x} . <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 1436-1439	3.9	19
168	Structural, electronic properties and inter-atomic bonding in layered chalcogenide oxides LaMChO (where M = Cu, Ag, and Ch = S, Se) from FLAPW-GGA calculations. <i>Solid State Sciences</i> , 2012 , 14, 89-93	3.4	18
167	Structural, elastic and electronic properties of new antiperovskite-like ternary nitrides AlNNi ₃ , GaNNi ₃ and InNNi ₃ as predicted from first principles. <i>Computational Materials Science</i> , 2010 , 49, 457-461	3.2	18
166	Electronic band structure and inter-atomic bonding in tetragonal BiOCuS as a parent phase for novel layered superconductors. <i>Solid State Communications</i> , 2010 , 150, 640-643	1.6	18
165	Electronic structure of the new MgCNi ₃ superconductor and related intermetallic compounds. <i>JETP Letters</i> , 2001 , 74, 122-127	1.2	18
164	Structural, electronic properties and intra-atomic bonding in new ThCr ₂ Si ₂ -like arsenides SrRu ₂ As ₂ , BaRu ₂ As ₂ , SrRh ₂ As ₂ and BaRh ₂ As ₂ from first principles calculations. <i>Solid State Communications</i> , 2009 , 149, 1860-1865	1.6	17
163	Elastic properties of single- and polycrystalline LaFeAsO, SrFe ₂ As ₂ , and LiFeAs basic phases for new FeAs superconductors. <i>Technical Physics Letters</i> , 2009 , 35, 961-963	0.7	17
162	Structural, elastic, electronic and magnetic properties of perovskite-like Co ₃ WC, Rh ₃ WC and Ir ₃ WC from first principles calculations. <i>Solid State Sciences</i> , 2010 , 12, 814-817	3.4	17

161	Design of novel magnetic materials based on ZrCuSiAs-like semiconducting pnictide-oxides from first-principles calculations. <i>Solid State Communications</i> , 2010 , 150, 2069-2071	1.6	17
160	Structural, vibrational, electronic, and luminescence properties of the cyclotetranadates $A_2M(VO_3)_4$ ($A=Na,Ag$; $M=Ca,Sr$). <i>Physical Review B</i> , 2008 , 77,	3.3	17
159	First-principles study on the structural, cohesive and electronic properties of rhombohedral Mo_2B_5 as compared with hexagonal MoB_2 . <i>Physica B: Condensed Matter</i> , 2007 , 387, 184-189	2.8	17
158	Energy-band structure of the $A(Sn_{1-x}M_x)O_3$ ($A = Ca, Sr, Ba$; $M = Mn, Fe, Co$) perovskite-type phases: A search for new magnetic semimetals. <i>Semiconductors</i> , 2006 , 40, 1261-1265	0.7	17
157	Magnetization of beryllium oxide in the presence of nonmagnetic impurities: Boron, carbon, and nitrogen. <i>JETP Letters</i> , 2007 , 85, 246-250	1.2	16
156	Band structure and properties of polymorphic modifications of lower tungsten carbide W_2C . <i>Physics of the Solid State</i> , 2008 , 50, 1420-1426	0.8	16
155	The band structures of superconducting MgB_2 and the isostructural compounds $CaGa_2$, AgB_2 , AuB_2 , $ZrBe_2$, and $HfBe_2$. <i>Physics of the Solid State</i> , 2001 , 43, 2213-2218	0.8	16
154	Structural, elastic, and electronic properties of new 211 MAX phase Nb_2GeC from first-principles calculations. <i>Physica B: Condensed Matter</i> , 2013 , 410, 42-48	2.8	15
153	Structural and electronic properties and the fermi surface of the new non-centrosymmetric superconductors: 3.6 K $CaIrSi_3$ and 2.3 K $CaPtSi_3$. <i>JETP Letters</i> , 2010 , 92, 343-347	1.2	15
152	Electronic and elastic properties of perovskite-like W_3NiC , W_3NiN and Co_3WC from first-principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1646-1651	1.3	15
151	Trends in stability, elastic and electronic properties of cubic Rh, Ir, Pd and Pt carbides depending on carbon content: MC versus M_4C from first-principles calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 803-809	3.9	15
150	Effect of metal vacancies on the band structure of Nb, Zr, and Y diborides. <i>Physics of the Solid State</i> , 2003 , 45, 1617-1621	0.8	15
149	Stability, structural, elastic, and electronic properties of polymorphs of the superconducting disilicide YIr_2Si_2 . <i>Physica B: Condensed Matter</i> , 2011 , 406, 3525-3530	2.8	14
148	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	1.2	14
147	Elastic, electronic properties and intra-atomic bonding in orthorhombic and tetragonal polymorphs of $BaZn_2As_2$ from first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 100-105	5.7	13
146	Electronic structure of cubic tungsten subnitride W_2N in comparison to hexagonal and cubic tungsten mononitrides WN . <i>Journal of Structural Chemistry</i> , 2010 , 51, 199-203	0.9	13
145	Electronic and magnetic properties of beryllium oxide with 3d impurities from first-principles calculations. <i>Physica B: Condensed Matter</i> , 2007 , 400, 47-52	2.8	13
144	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	1.6	13

143	Electronic band structure, optical absorption, and photocatalytic activity of iron-doped anatase. <i>Physics of the Solid State</i> , 2013 , 55, 1903-1912	0.8	12
142	Structural, electronic properties and chemical bonding in protonated lithium metallates $\text{Li}_2\text{H} \times \text{MO}_3$ (M = Ti, Zr, Sn). <i>Journal of Structural Chemistry</i> , 2011 , 52, 1043-1050	0.9	12
141	Structural, Electronic Properties and Fermi Surface of ThCr ₂ Si ₂ -Type Tetragonal KFe ₂ S ₂ , KFe ₂ Se ₂ , and KFe ₂ Te ₂ Phases as Parent Systems of New Ternary Iron-Chalcogenide Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 2215-2221	1.5	12
140	Ab initio calculation of the electronic structure, Fermi surface, and elastic properties of the new 7.5-K superconductor Nb ₂ InC. <i>JETP Letters</i> , 2010 , 91, 410-414	1.2	12
139	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	2.8	12
138	Electronic and elastic properties of the superconducting nanolaminate Ti ₂ InC. <i>Physics of the Solid State</i> , 2009 , 51, 1608-1612	0.8	12
137	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	6.8	12
136	MAGNETIZATION OF BERYLLIUM MONOXIDE (BeO) WITHOUT MAGNETIC IMPURITIES: A FIRST-PRINCIPLES STUDY. <i>International Journal of Modern Physics B</i> , 2008 , 22, 4987-4992	1.1	12
135	Electronic structure and stability of thorium carbonitrides. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 3198-3205	1.3	12
134	Elastic properties of thorium ceramics ThX (X = C, N, O, P, As, Sb, S, Se). <i>Technical Physics Letters</i> , 2007 , 33, 128-131	0.7	12
133	Magnetic properties and electronic structure of the LaGaO ₃ perovskite doped with nickel. <i>Physics of the Solid State</i> , 2008 , 50, 2121-2126	0.8	12
132	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	1.2	12
131	Bismuth titanate pyrochlores doped by alkaline earth elements: First-principles calculations and experimental study. <i>Solid State Ionics</i> , 2018 , 317, 183-189	3.3	11
130	Electronic Structure, Mechanical and Dynamical Stability of Hexagonal Subcarbides M ₂ C (M = Tc, Ru, Rh, Pd, Re, Os, Ir, and Pt): Ab Initio Calculations. <i>Physics of the Solid State</i> , 2018 , 60, 213-224	0.8	11
129	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	1.3	11
128	Composition of beryllium oxide ceramics. <i>Refractories and Industrial Ceramics</i> , 2011 , 51, 377-381	1.1	11
127	Electronic structure and magnetic properties of Fe ₃ C with 2p and 3p impurities. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2167-2171	1.3	11
126	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	1.6	11

125	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	0.8	11
124	Bending of MgO tubes: Mechanically induced hexagonal phase of magnesium oxide. <i>Physical Review B</i> , 2007 , 75,	3.3	11
123	Photocatalytic Properties of $BiTiO_{3-x}$ ($x = 0, 0.5$) Pyrochlores: Hybrid DFT Calculations and Experimental Study. <i>Inorganic Chemistry</i> , 2020 , 59, 12385-12396	5.1	11
122	Experimental investigation and ab initio calculation of the properties of Sc-, In-doped bismuth titanates with the pyrochlore type structure. <i>Physics of the Solid State</i> , 2017 , 59, 495-503	0.8	10
121	Synthesis and characterisation of new $MO(OH)_2$ ($M = Zr, Hf$) oxyhydroxides and related Li_2MO_3 salts. <i>Dalton Transactions</i> , 2014 , 43, 2755-63	4.3	10
120	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	0.9	10
119	Structural, elastic, electronic properties and stability trends of 1111-like silicide arsenides and germanide arsenides $MCuXAs$ ($M=Ti, Zr, Hf; X=Si, Ge$) from first principles. <i>Journal of Alloys and Compounds</i> , 2012 , 533, 71-78	5.7	10
118	First-principles study of structural, elastic and electronic properties of thorium dicarbide (ThC_2) polymorphs. <i>Journal of Nuclear Materials</i> , 2009 , 393, 192-196	3.3	10
117	Elastic properties and inter-atomic bonding in new superconductor KFe_2Se_2 from first principles calculations. <i>Solid State Communications</i> , 2011 , 151, 671-673	1.6	10
116	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	0.8	10
115	Electronic and magnetic properties of new quaternary oxybismuthides $LaOMBi$ (where $M = V, Cr, \square Ni, Cu$) from first principles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 5838-5840	2.3	10
114	Electronic Properties and Fermi Surface for New Layered High-Temperature Superconductors $CaAFe_4As_4$ ($A = K, Rb, \text{ and } Cs$): FLAPW-GGA Calculations. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1683-1692	1.5	10
113	Ab Initio and Experimental Insights on Structural, Electronic, Optical, and Magnetic Properties of Cr-Doped $BiTiO_3$. <i>Inorganic Chemistry</i> , 2019 , 58, 9904-9915	5.1	9
112	Synthesis, optical properties, and photocatalytic activity of lanthanide-doped anatase. <i>Russian Journal of Inorganic Chemistry</i> , 2014 , 59, 29-33	1.5	9
111	Electronic band structure, optical absorption and photocatalytic activity of anatase doped with bismuth or carbon. <i>Journal of Alloys and Compounds</i> , 2013 , 548, 46-51	5.7	9
110	Elastic and Electronic Properties of Superconducting $CaPd_2As_2$ and $SrPd_2As_2$ vs. Non-superconducting $BaPd_2As_2$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 155-161	1.5	9
109	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	3.5	9
108	Hydrogen-induced enhancement of ductility of fcc iridium: A first-principles study. <i>Materials Letters</i> , 2009 , 63, 2413-2415	3.3	9

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