

Igor R Shein

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

232
papers

4,048
citations

32
h-index

52
g-index

235
ext. papers

4,439
ext. citations

1.9
avg, IF

5.81
L-index

#	Paper	IF	Citations
232	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	5.1	0
231	Photocatalytic Properties of BiTiO ($= 0, 0.5$) Pyrochlores: Hybrid DFT Calculations and Experimental Study. <i>Inorganic Chemistry</i> , 2020 , 59, 12385-12396	5.1	11
230	Ab Initio and Experimental Insights on Structural, Electronic, Optical, and Magnetic Properties of Cr-Doped BiTiO. <i>Inorganic Chemistry</i> , 2019 , 58, 9904-9915	5.1	9
229	Thermodynamic properties and lattice dynamics investigation of LuBC: experiment and ab initio calculations. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24684-24694	3.6	1
228	Structural and Electronic Properties and Chemical Bonding in Layered 1111-Oxyarsenides LaRhAsO and LaIrAsO: AB Initio Simulation. <i>Journal of Structural Chemistry</i> , 2019 , 60, 1859-1867	0.9	
227	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
226	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
225	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	0.8	8
224	Structure and Thermodynamic Characteristics of Impurity Centers in Lithium-Doped Cadmium Oxide: an Ab Initio Paw-Study. <i>Journal of Structural Chemistry</i> , 2018 , 59, 253-260	0.9	1
223	Electronic Properties and Fermi Surface for New Layered High-Temperature Superconductors CaAF ₄ As ₄ (A = K, Rb, and Cs): FLAPW-GGA Calculations. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1683-1692	1.5	10
222	Mechanical and Dynamic Stability of Complete and Nonstoichiometric 3C-SixCy from Ab Initio Calculations. <i>Physics of the Solid State</i> , 2018 , 60, 2012-2018	0.8	
221	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. <i>Computational Condensed Matter</i> , 2018 , 16, e00306	1.7	
220	Impurity centers and electronic band structure of lithium-doped cadmium oxide. <i>Ceramics International</i> , 2018 , 44, 17313-17318	5.1	5
219	Metal-metal bond excitation in colloidal solution of Nbs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 179, 46-50	4.4	3
218	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
217	Fe and C doped TiO ₂ with different aggregate architecture: Synthesis, optical, spectral and photocatalytic properties, first-principle calculation. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 111, 473-486	3.9	5
216	Electronic and mechanical properties, phase stability, and formation energies of point defects of niobium boronitride Nb ₂ BN. <i>Physics of the Solid State</i> , 2017 , 59, 1481-1491	0.8	2

215	Structural, elastic and electronic properties of Ir-based carbides-antiperovskites Ir_3M_2C ($M = Ti, Zr, Nb$ and Ta) as predicted from first-principles calculations. <i>Computational Condensed Matter</i> , 2017 , 11, 60-68	1.7	3
214	Electronic structure of non-stoichiometric $ZrCuSiAs$ -like layered $LaZnAsO_{1-x}$ compositions: FLAPW-GGA modeling. <i>Journal of Structural Chemistry</i> , 2016 , 57, 805-807	0.9	
213	Pressure-induced zircon to monazite phase transition in $Y_1-xLa_xPO_4$: First-principles calculations. <i>Journal of Structural Chemistry</i> , 2016 , 57, 1513-1518	0.9	4
212	Electronic structure and formation energies of nonstoichiometric dichalcogenides M_xX_2 ($M = Nb, Mo, W$; $X = Se, Te$). <i>Journal of Structural Chemistry</i> , 2016 , 57, 281-286	0.9	1
211	Molecular dynamics simulations of defect formation in thin graphite films using the density functional tight-binding method. <i>Journal of Structural Chemistry</i> , 2016 , 57, 808-811	0.9	2
210	Synthesis, optical properties, and photocatalytic activity of lanthanide-doped anatase. <i>Russian Journal of Inorganic Chemistry</i> , 2014 , 59, 29-33	1.5	9
209	Electronic band structure, Fermi surface, structural and elastic properties of two polymorphs of $MgFeSeO$ as possible new superconducting systems. <i>JETP Letters</i> , 2014 , 98, 609-613	1.2	
208	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
207	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
206	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
205	Structural, elastic and electronic properties of new layered superconductor $HfCuGe_2$ in comparison with isostructural $HfCuSi_2$, $ZrCuGe_2$, and $ZrCuSi_2$ from first-principles calculations. <i>Intermetallics</i> , 2013 , 42, 130-136	3.5	4
204	Effect of fluorine, nitrogen, and carbon impurities on the electronic and magnetic properties of WO_3 . <i>Semiconductors</i> , 2013 , 47, 740-744	0.7	2
203	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
202	Structural, electronic, mechanical, and magnetic properties and relative stability of polymorphic modifications of ReN_2 from Ab initio calculation data. <i>Physics of the Solid State</i> , 2013 , 55, 1821-1825	0.8	3
201	Localization of vacancies and mobility of lithium ions in Li_2ZrO_3 as obtained by 6,7Li NMR. <i>Journal of Solid State Chemistry</i> , 2013 , 208, 43-49	3.3	28
200	Elastic Properties of New Pt-based Superconductors $CaPt_3P$ and $SrPt_3P$ as Evaluated from First-Principles Calculations. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 3167-3170	1.5	3
199	Correlated band structure of superconducting $NdFeAsO_{0.9}F_{0.1}$: Dynamical mean-field study. <i>JETP Letters</i> , 2013 , 98, 373-377	1.2	1
198	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	0.8	4

197	Charge distribution and mobility of lithium ions in Li ₂ TiO ₃ from ^{6,7} Li NMR data. <i>Journal of Structural Chemistry</i> , 2013 , 54, 111-118	0.9	10
196	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
195	Structural, elastic, and electronic properties of new 211 MAX phase Nb ₂ GeC from first-principles calculations. <i>Physica B: Condensed Matter</i> , 2013 , 410, 42-48	2.8	15
194	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
193	The effect of arsenic vacancies on the electronic and magnetic properties of LaFeAs _{1-x} O. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 335, 21-27	2.8	2
192	First-principles calculations of elastic and electronic properties of tetragonal Th ₂ NiC ₂ as a parent phase for new superconductors. <i>Journal of Alloys and Compounds</i> , 2013 , 551, 338-342	5.7	3
191	Ab initio Probing of Magnetic and Electronic Properties of Monoclinic EW_3O_3 Doped with 3d Transition Metals Within GGA and GGA+U. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 2343-2346	1.5	1
190	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
189	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
188	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
187	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
186	Ab initio probing of the electronic band structure and Fermi surface of fluorine-doped WO ₃ as a novel low-T _c superconductor. <i>JETP Letters</i> , 2012 , 95, 66-69	1.2	6
185	Mechanical properties and electronic structure of zircon: Ab initio FLAPW-GGA calculations. <i>Inorganic Materials: Applied Research</i> , 2012 , 3, 7-10	0.6	2
184	The influence of oxygen deficiency on structural and electronic properties of layered superconductor (Fe ₂ As ₂)(Sr ₄ V ₂ O _{6-x}). <i>Journal of Materials Science</i> , 2012 , 47, 3663-3668	4.3	2
183	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	3.3	8
182	Electronic band structure of pseudo-binary AlB ₂ -like hexagonal silicides SrNixSi _{2-x} as novel low-TC superconductors. <i>Physica B: Condensed Matter</i> , 2012 , 407, 4592-4594	2.8	0
181	Planar nano-block structures Tin+1Al _{0.5} C _n and Tin+1C _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
180	Structural, electronic, elastic properties and chemical bonding in LaNi ₂ P ₂ and LaNi ₂ Ge ₂ from first principles. <i>Intermetallics</i> , 2012 , 26, 1-7	3.5	9

179	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
178	Trends in structural, electronic properties and Fermi surface topology of 15 tetragonal $ThCr_2Si_2$ -type phases AFe_2Ch_2 , where $A = Li, Na, K, Rb$, and Cs ; $Ch = S, Se$, and Te , as parent systems of new ternary iron-halcoenide superconductors. <i>Computational Materials Science</i> , 2012 , 60, 1-6	3.2	2
177	Electronic structure, Fermi surface, and chemical bonding in new layered oxyselenide: $HgCuSeO$. <i>Journal of Structural Chemistry</i> , 2012 , 53, 634-638	0.9	
176	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. <i>Computational Materials Science</i> , 2012 , 65, 104-114	3.2	201
175	Electronic, magnetic properties and correlation effects in the layered quaternary iron oxyselenide $Na_2Fe_2Se_2O$ from first principles. <i>Solid State Communications</i> , 2012 , 152, 1969-1972	1.6	2
174	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	4.3	4
173	Ab Initio Probing of the Magnetic and Electronic Properties of $ThCr_2Si_2$ -Like Charge-Balanced $KFeAgTe_2$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 151-154	1.5	1
172	Impurity-Induced Magnetization of Layered Semiconductor $LaCuSeO$ as Predicted from First-Principles Calculations. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012 , 25, 1509-1513	1.5	2
171	Nanotubes of layered iron-based superconductors: Simulations of atomic structure and electronic properties. <i>Computational Materials Science</i> , 2011 , 50, 824-827	3.2	3
170	Electronic band structure and inter-atomic bonding in layered 1111-like Th-based pnictide oxides $ThCuPO$, $ThCuAsO$, $ThAgPO$, and $ThAgAsO$ from first principles calculations. <i>Computational Materials Science</i> , 2011 , 50, 2736-2740	3.2	6
169	Structure-induced semiconductor \rightarrow metal transition in lead monosulfide PbS : Ab initio calculations. <i>Doklady Physical Chemistry</i> , 2011 , 437, 50-53	0.8	
168	Magnetization of zircon induced by 3d impurities: Ab initio calculations. <i>Doklady Physical Chemistry</i> , 2011 , 438, 90-93	0.8	2
167	Structural, electronic, and magnetic properties of layered cobalt pnictide oxides $(Co_2As_2)(Sr_4Sc_2O_6)$ and $(Co_2P_2)(Sr_4Sc_2O_6)$ from first principles. <i>Solid State Sciences</i> , 2011 , 13, 837-842	3.4	1
166	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
165	Structural, electronic properties and chemical bonding in protonated lithium metallates $Li_2H_xMO_3$ ($M = Ti, Zr, Sn$). <i>Journal of Structural Chemistry</i> , 2011 , 52, 1043-1050	0.9	12
164	Ab initio study of the nature of the chemical bond and electronic structure of the layered phase $Ca_{10}(Pt_4As_8)(Fe_2As_2)_5$ as a parent system in the search for new superconducting iron-containing materials. <i>Theoretical and Experimental Chemistry</i> , 2011 , 47, 292-295	1.3	5
163	^{23}Na NMR in binary lithium-sodium cobaltite. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 1157-1159	0.4	1
162	Magnetic and Electronic Properties of Nitrogen-Doped Lanthanum Sesquioxide La_2O_3 as Predicted from First Principles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 1693-1696	1.5	4

161	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
160	Composition of beryllium oxide ceramics. <i>Refractories and Industrial Ceramics</i> , 2011 , 51, 377-381	1.1	11
159	Electronic structure and Fermi surface of new K intercalated iron selenide superconductor K _x Fe ₂ Se ₂ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 1028-1031	2.3	57
158	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
157	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
156	Elastic properties and inter-atomic bonding in layered Fe _{1-x} Ti _x arsenide oxide Sr ₂ Fe ₂ CuAs ₂ O ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2165-2169	1.3	
155	Structural, electronic, and magnetic properties of tungsten oxycarbides WC _{1-x} O _x and WO _{3-x} C _x from first principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2884-2892	1.3	6
154	Electronic band structure and Fermi surface of new low-temperature Ni-based superconductors: 3.3K (Ni ₂ P ₂)(Sr ₄ Sc ₂ O ₆) and 2.7K (Ni ₂ As ₂)(Sr ₄ Sc ₂ O ₆) from first principles. <i>Physica B: Condensed Matter</i> , 2011 , 406, 676-682	2.8	3
153	Stability, structural, elastic, and electronic properties of polymorphs of the superconducting disilicide YIr ₂ Si ₂ . <i>Physica B: Condensed Matter</i> , 2011 , 406, 3525-3530	2.8	14
152	Electronic band structure and Fermi surface of new 3.7 K superconductor LiCu ₂ P ₂ from first-principles calculations. <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 226-228	1.3	5
151	Structural, electronic properties and inter-atomic bonding in layered iron pnictide oxides (Fe ₂ As ₂)(Sr ₄ O ₆), where M are Mg and Ti. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 2075-2078	2.3	2
150	Elastic properties and inter-atomic bonding in new superconductor KFe ₂ Se ₂ from first principles calculations. <i>Solid State Communications</i> , 2011 , 151, 671-673	1.6	10
149	Structural, elastic, electronic and magnetic properties of ThCr ₂ Si ₂ from first-principles calculations. <i>Solid State Communications</i> , 2011 , 151, 1165-1168	1.6	8
148	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
147	Fermi surface, structural and electronic properties of ThCr ₂ Si ₂ -type charge-balanced KFe ₂ AsSe: A parent system for the group of mixed pnictide-chalcogenide superconductors. <i>Physical Review B</i> , 2011 , 84,	3.3	1
146	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
145	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
144	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

143	Band structure of new layered arsenides SrRu ₂ As ₂ and BaRu ₂ As ₂ . <i>Physics of the Solid State</i> , 2010 , 52, 6-11	0.8	3
142	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
141	Effect of 4d metal impurities on the structure, electronic properties, and stability of hexagonal WC from data of FLAPW-GGA calculations. <i>Physics of the Solid State</i> , 2010 , 52, 2450-2457	0.8	1
140	Electronic structure of Ti-doped Sr ₄ Sc ₂ Fe ₂ As ₂ O ₆ as a possible parent phase for the new FeAs superconductors. <i>Open Physics</i> , 2010 , 8,	1.3	5
139	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
138	Trends in stability, elastic and electronic properties of cubic Rh, Ir, Pd and Pt carbides depending on carbon content: MC versus M ₄ C from first-principles calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 803-809	3.9	15
137	Structural, electronic, and magnetic properties of CaCNi ₃ , SrCNi ₃ , and BaCNi ₃ antiperovskites in comparison to superconducting MgCNi ₃ . <i>Journal of Structural Chemistry</i> , 2010 , 51, 170-172	0.9	6
136	Electronic structure of cubic tungsten subnitride W ₂ N in comparison to hexagonal and cubic tungsten mononitrides WN. <i>Journal of Structural Chemistry</i> , 2010 , 51, 199-203	0.9	13
135	Electronic structure and magnetic properties of RhH _x (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	0.9	3
134	Effect of Li and Na impurities on the electronic and magnetic properties of beryllium oxide. <i>Journal of Structural Chemistry</i> , 2010 , 51, 960-963	0.9	1
133	Single crystals and light-transmitting BeO-ceramic for electronic technology. <i>Refractories and Industrial Ceramics</i> , 2010 , 51, 167-171	1.1	5
132	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
131	The influence of carbon non-stoichiometry on the electronic properties of thorium monocarbide ThC. <i>Solid State Sciences</i> , 2010 , 12, 1580-1584	3.4	6
130	Ab initio study of elastic and electronic properties of cubic thorium pnictides ThPn and Th ₃ Pn ₄ (Pn = P, As, and Sb). <i>Solid State Sciences</i> , 2010 , 12, 2106-2112	3.4	9
129	Electronic band structure of new 122D pnictogen-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
128	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
127	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
126	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

125	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
124	Stability, structural, elastic and electronic properties of RuN polymorphs from first-principles calculations. <i>Solid State Communications</i> , 2010 , 150, 953-956	1.6	6
123	Origin of incompressibility and hardness from electronic and mechanical properties of hard material ruthenium diboride. <i>Solid State Communications</i> , 2010 , 150, 1095-1098	1.6	9
122	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
121	Elastic and electronic properties of the new perovskite-like superconductor ZnNNi3 in comparison with MgCNi3. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 72-76	1.3	22
120	Specific features of steady-state implantation of crystalline silicon with a molecular oxygen-nitrogen beam: Si L 2, 3 x-ray emission spectra 2010 , 50, 146		
119	Electronic and structural properties of low-temperature superconductors and ternary pnictides ANi2Pn2 (A=Sr,Ba and Pn=P,As). <i>Physical Review B</i> , 2009 , 79,	3.3	60
118	Structural and electronic properties of the 17 K superconductor Sr2ScFePO3 in comparison to Sr2ScFeAsO3 from first principles calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	32
117	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
116	Hydrogen-induced enhancement of ductility of fcc iridium: A first-principles study. <i>Materials Letters</i> , 2009 , 63, 2413-2415	3.3	9
115	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
114	Electronic structure of tungsten carbonitrides WC1-xNx. <i>Journal of Structural Chemistry</i> , 2009 , 50, 1-9	0.9	5
113	Chemical bonding in LaFeAsO, SrFe2As2, and LiFeAs: Basic phases of new 185 K superconductors. <i>Journal of Structural Chemistry</i> , 2009 , 50, 552-555	0.9	4
112	Electronic and Magnetic Properties of Superconducting Sr4V2Fe2As2O6 Versus Sr4Sc2Fe2As2O6. <i>Journal of Superconductivity and Novel Magnetism</i> , 2009 , 22, 613-617	1.5	28
111	Electronic structure and magnetic properties of Fe3C with 2p and 3p impurities. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2167-2171	1.3	11
110	Electronic and elastic properties of perovskite-like W3NiC, W3NiN and Co3WC from first-principles calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1646-1651	1.3	15
109	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	0.8	3
108	Electronic structure and properties of beryllium oxide. <i>Inorganic Materials</i> , 2009 , 45, 223-234	0.9	30

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