

Bachir Bouhafs

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.

183
papers

3,307
citations

31
h-index

48
g-index

185
ext. papers

3,641
ext. citations

2.4
avg, IF

5.09
L-index

#	Paper	IF	Citations
183	DFT studies on the structural, electronic, and optical properties of Na ₂ ZnP ₂ O ₇ compound. <i>Materials Today Communications</i> , 2021 , 29, 102868	2.5	0
182	SnCmonolayer with transition metal adatom for gas sensing: a density functional theory studies. <i>Nanotechnology</i> , 2021 , 32,	3.4	3
181	Effect of an interfacial oxygen monolayer on the spin-polarization at the Fe/MgO interface: First-principles calculations. <i>Materials Science in Semiconductor Processing</i> , 2021 , 121, 105463	4.3	1
180	Ab-initio investigation of optoelectronic properties for elpasolite Cs ₂ NaVCl ₆ using GGA+U approach: Band gap engineering. <i>Computational Condensed Matter</i> , 2021 , 26, e00531	1.7	1
179	Electronic Structure and Thermoelectric Properties of Semiconductors K ₂ GeSiX ₆ (X=F, Cl, Br and I) Compounds: Ab-Initio Investigation. <i>Spin</i> , 2021 , 11, 2150009	1.3	1
178	Theoretical study of structural, electronic, dynamic and thermodynamic properties of Ni ₂ FeAl and Ni ₂ CoAl alloys. <i>Computational Condensed Matter</i> , 2020 , 24, e00480	1.7	
177	d ₀ Half-Metallic Ferromagnetism in GeNaZ (Z = Ca, Sr, and Ba) Ternary Half-Heusler Alloys: an Ab initio Investigation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 3121-3132	1.5	4
176	First-Principles Study of the New Half-Metallic Ferromagnetic Quaternary-Heusler Alloys NaXNO (X=Ca, Sr, Ba). <i>Spin</i> , 2020 , 10, 2050022	1.3	5
175	Ab initio studies of the structural, electronic and magnetic properties of stannite CuFe ₂ -III-VI ₄ (III = Al, Ga, In and VI = S, Se, Te) alloys. <i>Computational Condensed Matter</i> , 2020 , 23, e00459	1.7	3
174	Controlling the electronic and optical properties of HfS mono-layers lanthanide substitutional doping: a DFT+ study.. <i>RSC Advances</i> , 2020 , 10, 15670-15676	3.7	16
173	Competition between the hcp nonmagnetic and antiferromagnetic phases in the transition path of Fe under pressure. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 499, 166312	2.8	0
172	Electronic structure theory of unusually matched BA _{1-x} P _x alloys using high-throughput ab-initio computation. <i>Physica B: Condensed Matter</i> , 2020 , 579, 411901	2.8	1
171	Thermoelectric and Half-Metallic Behavior of the Novel Heusler Alloy RbCrC: Ab initio DFT Study. <i>Spin</i> , 2020 , 10, 2050029	1.3	4
170	Semiconductor behavior of halide perovskites AGeX ₃ (A = K, Rb and Cs; X = F, Cl and Br): first-principles calculations. <i>Indian Journal of Physics</i> , 2020 , 94, 455-467	1.4	20
169	First-Principles Study of Ferromagnetism in Iron Chromite Spinels: FeCr ₂ O ₄ and CrFe ₂ O ₄ . <i>Spin</i> , 2019 , 09, 1950014	1.3	5
168	An ab initio study on the transition path of carbon dioxide at high pressure: Evidence for a new intermediate P4?m2 phase. <i>Computational Condensed Matter</i> , 2019 , 21, e00429	1.7	1
167	Predicted dynamically stable new phase for CrO ₂ compound: DFT+ U calculations. <i>Computational Condensed Matter</i> , 2019 , 21, e00400	1.7	3

166	First-Principle Studies of Ferrimagnetic Double Perovskite $\text{Ca}_2\text{FeMoO}_6$ Compound. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 2913-2922	1.5	1
165	Investigation of new d0 half-metallic full-heusler alloys N_2BaX (X=Rb, Cs, Ca and Sr) using first-principle calculations. <i>Computational Condensed Matter</i> , 2019 , 19, e00371	1.7	7
164	Half-Metallic and Half-Semiconductor Gaps in Cr-Based Chalcogenides: DFT + U Calculations. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 635-649	1.5	7
163	DFT + U studies of the electronic and optical properties of ReS_2 mono-layer doped with lanthanide atoms. <i>Materials Research Express</i> , 2019 , 6, 106307	1.7	7
162	Density functional theory studies of the SrC and SrN compounds. <i>Materials Chemistry and Physics</i> , 2019 , 237, 121875	4.4	5
161	Optoelectronic properties of germanium iodide perovskites AGeI_3 (A = K, Rb and Cs): first principles investigations. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	12
160	Insight into the structural, elastic and electronic properties of tetragonal inter-alkali metal chalcogenides CsNaX (X=S, Se, and Te) from first-principles calculations. <i>Materials Chemistry and Physics</i> , 2019 , 221, 125-137	4.4	8
159	Spin-polarized optical properties of half-metallic binary XBi (X = Ca, Sr and Ba) compounds in zinc blende and wurtzite phases. <i>Indian Journal of Physics</i> , 2019 , 93, 627-638	1.4	
158	Prediction of a Dynamically Stable New Half-Metallic Phase for the BaN and BaC Compounds. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 2031-2044	1.5	2
157	Rattling Heusler semiconductors' thermoelectric properties: First-principles prediction. <i>Chinese Journal of Physics</i> , 2019 , 57, 195-210	3.5	7
156	Magnetic, Optoelectronic, and Thermodynamic Properties of Sr_2CrXO_6 (X = La and Y): Half-Metallic and Ferromagnetic Behavior. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 3965-3979	1.5	6
155	Gd impurities effect on $(\text{Co})_2(\text{CrSi})$ alloy: first-principle calculations. <i>Bulletin of Materials Science</i> , 2018 , 41, 1	1.7	28
154	Prediction of Half-Metallic Properties in Non-transition Metal-based Binary Compounds XBi (X = Ba, Sr and Ca) with Zinc-Blende and Wurtzite Structures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 2767-2776	1.5	2
153	First principles predictions of electronic and elastic properties of BaPb_2As_2 in the ThCr_2Si_2 -type structure. <i>Physica C: Superconductivity and Its Applications</i> , 2018 , 544, 18-21	1.3	1
152	Electronic structure and magnetic ordering in gadolinium-doped AlGaIn from LSDA + U calculations. <i>International Journal of Computational Materials Science and Engineering</i> , 2018 , 07, 1850019	0.3	3
151	Ab-initio investigation of structural, electronic, magnetic, and thermodynamic properties of XPt_3 (X=V, Cr, Mn, and Fe) intermetallic compounds. <i>Computational Condensed Matter</i> , 2018 , 16, e00328	1.7	3
150	Ferromagnetism in RaBi with Zinc-Blende and Wurtzite Structures: Ab-initio Prediction. <i>Spin</i> , 2018 , 08, 1850008	1.3	11
149	First-Principles Studies of Structural, Electronic and Magnetic Properties of the CrS , CrSe and CrTe Compounds. <i>Spin</i> , 2018 , 08, 1850019	1.3	7

148	Ab-Initio Prediction of Intrinsic Half-Metallicity in Binary Alkali Metal Chalcogenides: KX (X=S, Se and Te). <i>Spin</i> , 2018 , 08, 1850020	1.3	9
147	First-Principles Calculations of the Structure and Magnetic Phases of FeAs ₂ Compound under Pressure. <i>Spin</i> , 2018 , 08, 1850016	1.3	1
146	A Computational Study of the Electronic and Magnetic Properties of Rare Earth (Er)-Doped InGaN. <i>Spin</i> , 2018 , 08, 1850011	1.3	2
145	First-principles study of the electronic structure, magnetism, and phonon dispersions for CaX (X=F, C, N) compounds. <i>Computational Condensed Matter</i> , 2018 , 17, e00336	1.7	11
144	A first-principles study of the structural, elastic, electronic, vibrational, and optical properties of BaSe _{1-x} Tex. <i>Journal of Computational Electronics</i> , 2018 , 17, 1478-1491	1.8	
143	Structural, electronic and optical properties of cubic fluoroelpasolite Cs ₂ NaYF ₆ by density functional theory. <i>Chinese Journal of Physics</i> , 2018 , 56, 1756-1763	3.5	11
142	Prediction of half-metallicity in the NaS, NaSe and NaTe alkali-metal chalcogenides using first principles. <i>International Journal of Computational Materials Science and Engineering</i> , 2018 , 07, 1850015	0.3	3
141	Ab-initio prediction of half-metallicity in Lithium chalcogenides compounds LiX (X=S, Se and Te) in zinc-blende and wurtzite structures. <i>Computational Condensed Matter</i> , 2018 , 16, e00318	1.7	3
140	Electronic and mechanical properties of MgN compound: Prediction of stable half-metallic ferromagnet in NaCl and ZB phases. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 466, 28-37	2.8	5
139	GGA + U Study of Electronic and Magnetic Properties of Pr(Fe/Cr)O ₃ Cubic Perovskites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 2581-2590	1.5	15
138	The effect of the correlation and exchange interactions on the electronic and magnetic properties of the hexagonal NiS using the onsite exact exchange/hybrid functionals. <i>Physica B: Condensed Matter</i> , 2017 , 526, 89-95	2.8	2
137	Electronic and Magnetic Properties of Co ₂ CrGa _{1-x} Si _x Heusler Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 421-424	1.5	37
136	First-principles prediction of insulating antiferromagnet in ordered double-perovskite Ca ₂ MnMoO ₆ compound. <i>International Journal of Computational Materials Science and Engineering</i> , 2017 , 06, 1750027	0.3	2
135	Half-Metallic Ferromagnetism in Double Perovskite Ca ₂ CoMoO ₆ Compound: DFT+U Calculations. <i>Spin</i> , 2017 , 07, 1750009	1.3	17
134	Structural Stability, Electronic and Magnetic Properties of (Ni _{1-x} Cox) ₂ MnSn Quaternary Heusler Alloys. <i>Spin</i> , 2017 , 07, 1750010	1.3	6
133	Investigated electronic structure and magnetic ordering of rare earth impurities (Eu, Gd) in ZnO. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650225	1.1	14
132	Ab initio full-potential study of mechanical properties and magnetic phase stability of californium monpnictides (CfN and CfP). <i>Journal of Nuclear Materials</i> , 2016 , 478, 149-157	3.3	3
131	Effect of Coulomb interactions and Hartree-Fock exchange on structural, elastic, optoelectronic and magnetic properties of Co ₂ MnSi Heusler: A comparative study. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 419, 74-83	2.8	22

130	Structural and electronic properties of non-magnetic intermetallic YAuX (X = Ge and Si) in hexagonal and cubic phases. <i>Bulletin of Materials Science</i> , 2016 , 39, 195-200	1.7	3
129	Realization of p-Type Conductivity in ZnO via Potassium Doping. <i>Acta Physica Polonica A</i> , 2016 , 129, 1155-1158	1.5	7
128	Electronic, Elastic, and Magnetic Properties of the Full-Heusler with the 4d Transition Metal Element, Co ₂ YSi, Co ₂ ZrSi, and Co ₂ Y _{0.5} Zr _{0.5} Si: a First-Principle Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 2311-2317	1.5	10
127	Ferromagnetism in 4H-GaN polytype doped by non-magnetic light elements Li, Be, B, C, O, F, Ne, Na, and Mg: Ab-initio study. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 414, 153-157	2.8	9
126	A datamining approach to predict the formation enthalpy for rare-earth dihydrides REH ₂ (RE=[Ce,Pr,Dy]). <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11254-11263	6.7	7
125	Structural, elastic, electronic and thermodynamic investigations of neptunium chalcogenides: First-principles calculations. <i>Chinese Journal of Physics</i> , 2016 , 54, 33-41	3.5	23
124	Fermi Surfaces of Compensated and Uncompensated Metals: GGA+U+SO Comparative Ab Initio Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 2195-2201	1.5	
123	Thermodynamic, structural and electronic, properties of SnO ₂ : By GGA and GGA + trans-blaha-modified Becke-Johnson (TB-mBJ) calculation. <i>Superlattices and Microstructures</i> , 2015 , 84, 80-90	2.8	6
122	Magnetic ordering and electronic structure of the ternary iron arsenide BaFe ₂ As ₂ . <i>International Journal of Modern Physics B</i> , 2015 , 29, 1550182	1.1	
121	Structure and magnetic properties of the 3d transition-metal mono-borides TMB (TM=Mn, Fe, Co) under pressures. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 365, 23-30	2.8	18
120	Positron energy levels in zinc chalcogenides ZnS, ZnSe, and ZnTe. <i>Computational Materials Science</i> , 2014 , 93, 22-28	3.2	
119	Structural, elastic, electronic and thermodynamic properties of uranium filled skutterudites UFe ₄ P ₁₂ : First principle method. <i>Materials Science in Semiconductor Processing</i> , 2014 , 27, 368-379	4.3	31
118	Structural and elastic properties of TiN and AlN compounds: first-principles study. <i>Materials Science-Poland</i> , 2014 , 32, 220-227	0.6	6
117	Half metallic properties of the quaternary CuFe ₂ GaSe ₄ chalcogenide compound. <i>Computational Materials Science</i> , 2014 , 85, 159-163	3.2	10
116	Ab initio calculations of structural, elastic, and thermodynamic properties of HoX (X=N, O, S and Se). <i>Materials Science in Semiconductor Processing</i> , 2014 , 26, 205-217	4.3	11
115	Electronic structure, magnetic and thermal properties of Rh ₂ MnZ (Z=Ge, Sn, Pb) compounds under pressure from ab-initio quasi-harmonic method. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 371, 130-134	2.8	6
114	Electronic and magnetic properties of Fe ₂ SiC. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	4
113	Resonant Electromagnetic Field Distribution on Doped Multilayer Thin Film Structure. <i>Spectroscopy Letters</i> , 2014 , 47, 397-403	1.1	2

112	First-Principles Calculations of Structural, Electronic, Optical, and Thermodynamic Properties of CdS, CdTe and Their Ternary Alloys CdS _{1-x} Tex(0.0 ≤ x ≤ 1.0). <i>Acta Physica Polonica A</i> , 2014 , 125, 1110-1117	0.6	17
111	First-principles investigation on structural, elastic, electronic and thermodynamic properties of filled skutterudite PrFe ₄ P ₁₂ compound for thermoelectric applications. <i>Molecular Simulation</i> , 2014 , 40, 1236-1243	2	18
110	First-principle study of structural, elastic and electronic properties of Th monopnictides. <i>Journal of Nuclear Materials</i> , 2014 , 454, 186-191	3.3	15
109	First-principle study of magnetic, elastic and thermal properties of full Heusler Co ₂ MnSi. <i>Intermetallics</i> , 2014 , 44, 26-30	3.5	39
108	Half-metallic ferromagnetism in PrMnO ₃ perovskite from first principles calculations. <i>Solid State Communications</i> , 2013 , 168, 6-10	1.6	50
107	Structural, elastic, electronic and thermodynamic properties of the filled skutterudite CeOs ₄ Sb ₁₂ determined by density functional theory. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 1508-1516	4.3	23
106	Positron Energy Levels in Cd-Based Semiconductors. <i>Communications in Theoretical Physics</i> , 2013 , 59, 756-762	2.4	1
105	Spin-Polarized Calculations of Magnetic and Thermodynamic Properties of the Full-Heusler (Co) ₂ MnZ (Z = Al, Ga). <i>International Journal of Thermophysics</i> , 2013 , 34, 507-520	2.1	9
104	FP-LMTO method to calculate the structural, thermodynamic and optoelectronic properties of SixGe _{1-x} C alloys. <i>Molecular Physics</i> , 2013 , 111, 3208-3217	1.7	7
103	First principle calculations of structural, electronic and thermodynamic properties of Al ₃ (Ti _x V _{1-x}) alloy in D0 ₂₂ and L1 ₂ structures. <i>Solid State Sciences</i> , 2013 , 16, 1-5	3.4	10
102	Ferromagnetism in CdOX (X=Mn and N) with and without intrinsic point defects: A density functional theory. <i>Results in Physics</i> , 2013 , 3, 205-208	3.7	6
101	Correlation effects on the electronic structure of Co ₂ Mn _{0.5} Fe _{0.5} Si and Co ₂ Mn _{0.5} Gd _{0.5} Si quaternary alloys. <i>Intermetallics</i> , 2013 , 37, 27-31	3.5	5
100	Electronic structure, optical and dielectric constant of compounds Indium-based: InAlP ₂ , and InGaP ₂ in its chalcopyrite, CuPt and CuAu-I structures. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 1454-1465	4.3	7
99	First-principles calculations of magnetic properties for CdCrO ₂ under pressure. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 327, 76-78	2.8	4
98	First-principles calculations of the structural, electronic and optical properties of cubic BxGa _{1-x} As alloys. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1292-1300	2.8	20
97	Spin-polarized calculations of electronic structures in ferromagnetic and antiferromagnetic Zn _{0.75} TM _{0.25} Se (TM=Cr, Fe, Co and Ni). <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2800-2805	2.8	10
96	Structural and electronic properties of the Laves phase based on rare earth type BaM ₂ (M=Rh, Pd, Pt). <i>Results in Physics</i> , 2012 , 2, 58-65	3.7	54
95	The spin effect in zinc-blende CdEuS and CdEuSe: GGA and GGA+U studies. <i>Physica B: Condensed Matter</i> , 2012 , 407, 3639-3645	2.8	7

94	Half-metallic ferromagnetism in ZnCrTe and CdCrTe: Ab initio study. <i>Computational Materials Science</i> , 2011 , 50, 2785-2792	3.2	13
93	First-principles study of electronic structure and magnetism of cubic Al _{1-x} Er _x N using the LSDA+U approach. <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 1174-1178	2.8	9
92	Electronic structure and magnetism of cubic Ga _{1-x} EuxN and Al _{1-x} EuxN using the LSDA + U approach. <i>Computational Materials Science</i> , 2010 , 48, 743-748	3.2	16
91	Vacancy defects in strontium titanate: Ab initio calculation. <i>Computational Materials Science</i> , 2010 , 49, 904-909	3.2	26
90	Stability and electronic properties of Zn _x Cd _{1-x} O alloys. <i>Materials Chemistry and Physics</i> , 2010 , 120, 98-103	4.4	29
89	First principles calculation of electronic structure, bonding and chemical stability of TiB ₂ , NbB ₂ and their ternary alloy Ti _{0.5} Nb _{0.5} B ₂ . <i>Physica B: Condensed Matter</i> , 2010 , 405, 540-546	2.8	13
88	The spin effect in zinc-blende Cd _{0.5} Mn _{0.5} Te and Zn _{0.5} Mn _{0.5} Te diluted magnetic semiconductors: FP-LAPW study. <i>Physica B: Condensed Matter</i> , 2010 , 405, 625-631	2.8	22
87	FP-LAPW investigation of structural, electronic, and thermodynamic properties of Al ₃ V and Al ₃ Ti compounds. <i>Physica B: Condensed Matter</i> , 2010 , 405, 4045-4050	2.8	26
86	Ab initio studies of structural, elastic and electronic properties of Zr _x Nb _{1-x} C and Zr _x Nb _{1-x} N alloys. <i>Physica B: Condensed Matter</i> , 2010 , 405, 153-157	2.8	11
85	First-principles prediction of structural and electronic properties of RTAsO (R=La, Gd and T=Co, Ni) compounds by LSDA+U calculations. <i>Physica B: Condensed Matter</i> , 2010 , 405, 3525-3531	2.8	3
84	Theoretical analysis of the spin effect on the electronic and magnetic properties of the calcium manganese oxide CaMnO ₃ : GGA+U calculation. <i>Physica B: Condensed Matter</i> , 2010 , 405, 4595-4606	2.8	13
83	First principles calculations of structural, electronic, thermodynamic and optical properties of Ba _{1-x} Px alloy. <i>Physica Scripta</i> , 2009 , 79, 045002	2.6	11
82	ELECTRONIC AND OPTICAL PROPERTIES OF BaO, BaS, BaSe, BaTe AND BaPo COMPOUNDS UNDER HYDROSTATIC PRESSURE. <i>Modern Physics Letters B</i> , 2009 , 23, 3065-3079	1.6	16
81	Theoretical investigation of electronic structure of Pb _{Sx} Te _{1-x} and Pb _{Sex} Te _{1-x} alloys. <i>Materials Chemistry and Physics</i> , 2009 , 114, 650-655	4.4	16
80	Electronic structure of new RENiAsO (RE = Rare Earth Elements) compounds: Ab initio spin-density functional theory. <i>Superlattices and Microstructures</i> , 2009 , 46, 533-540	2.8	1
79	First principles calculations of structural, electronic and optical properties of Ba _{1-x} Px alloy. <i>Physics Procedia</i> , 2009 , 2, 933-940		16
78	Vacancy effects on structural and electronic properties of 4d transition-metal carbides. <i>Computational Materials Science</i> , 2009 , 44, 1071-1075	3.2	10
77	First principles calculations of structural, electronic and optical properties of BaLiF ₃ . <i>Computational Materials Science</i> , 2009 , 44, 1265-1271	3.2	36

76	Ab initio study of cubic PbS _x Se _{1-x} alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 462, 135-141	5.7	13
75	Electronic properties and stability of ZnO from computational study. <i>Physica B: Condensed Matter</i> , 2008 , 403, 3154-3158	2.8	15
74	Electronic structure of cubic Er _x Ga _{1-x} N using the LSDA+U approach. <i>Physica B: Condensed Matter</i> , 2008 , 403, 2702-2706	2.8	7
73	Generalized gradient calculations of magneto-electronic properties for diluted magnetic semiconductors ZnMnS and ZnMnSe. <i>Physica B: Condensed Matter</i> , 2008 , 403, 3452-3458	2.8	23
72	First-principles calculations of the optical band-gaps of Zn _x Cd _{1-x} O alloys. <i>Superlattices and Microstructures</i> , 2007 , 42, 165-171	2.8	23
71	Full-potential electronic structure of Hf ₂ AlC and Hf ₂ AlN. <i>Acta Materialia</i> , 2007 , 55, 4161-4165	8.4	26
70	Structural and electronic properties calculations of Be _x Zn _{1-x} Se alloy. <i>Materials Science in Semiconductor Processing</i> , 2007 , 10, 6-13	4.3	20
69	Structural, electronic and energetic properties of silicon carbon alloys. <i>Physica B: Condensed Matter</i> , 2007 , 388, 167-173	2.8	4
68	First-principle calculations of electronic and positronic properties of AlGaAs ₂ . <i>Physica B: Condensed Matter</i> , 2007 , 396, 169-176	2.8	13
67	A theoretical investigation of ZnO _x S _{1-x} alloy band structure. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1560-1566	1.3	17
66	First-principles calculations of the elastic, electronic, and optical properties of the filled skutterudites CeFe ₄ P ₁₂ and ThFe ₄ P ₁₂ . <i>Physical Review B</i> , 2007 , 75,	3.3	62
65	First-principles elastic constants and electronic structure of beryllium chalcogenides BeS, BeSe and BeTe. <i>Computational Materials Science</i> , 2007 , 38, 609-617	3.2	82
64	Electronic structure and optical properties of (ZnSe) _n (Si ₂) _m (111) superlattices. <i>Journal of Applied Physics</i> , 2006 , 99, 043702	2.5	9
63	Full-potential study of d-electrons effects on the electronic structure of wurtzite and zinc-blende InN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 35-41	1.6	8
62	Full-potential electronic structure calculations of InN(AlN) layer embedded in GaN bulk. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2247-2253	1.6	1
61	Meta-GGA calculation of the electronic structure of group III-V nitrides. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 1577-1582	1.3	17
60	Structural, electronic, elastic and high-pressure properties of some alkaline-earth chalcogenides: An ab initio study. <i>Physica B: Condensed Matter</i> , 2006 , 371, 12-19	2.8	64
59	Full-relativistic calculation of electronic structure of Zr ₂ AlC and Zr ₂ AlN. <i>Solid State Communications</i> , 2006 , 139, 485-489	1.6	25

58	First-principles study of cubic Al _x Ga _{1-x} N alloys. <i>Computational Materials Science</i> , 2005 , 33, 136-140	3.2	20
57	Ordering effects on the electronic structures of AlN/GaN, InN/GaN and InN/AlN superlattices. <i>Computational Materials Science</i> , 2005 , 33, 157-162	3.2	5
56	Full potential linearized augmented plane wave calculations of positronic and electronic charge densities of zinc-blende AlN, InN and their alloy Al _{0.5} In _{0.5} N. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 2117-2127	3.3	15
55	Predictive study of electronic properties of silicon-carbon alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 122, 145-151	3.1	4
54	First-principles calculations of the structural, electronic and optical properties of and. <i>Physica B: Condensed Matter</i> , 2005 , 367, 142-151	2.8	31
53	Full-potential calculations of structural, elastic and electronic properties of MgAl ₂ O ₄ and ZnAl ₂ O ₄ compounds. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 344, 271-279	2.3	58
52	First-principles calculations of optical properties of GeC, SnC and GeSn under hydrostatic pressure. <i>Physica B: Condensed Matter</i> , 2005 , 355, 392-400	2.8	32
51	First-principles study of bonding mechanisms in the series of Ti, V, Cr, Mo, and their carbides and nitrides. <i>Physica B: Condensed Matter</i> , 2005 , 358, 63-71	2.8	34
50	Optical properties of BP, BAs and BSb compounds under hydrostatic pressure. <i>Physica B: Condensed Matter</i> , 2005 , 367, 195-204	2.8	46
49	Structural, electronic and optical properties of fluorite-type compounds. <i>European Physical Journal B</i> , 2005 , 47, 63-70	1.2	30
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43	Structural, electronic and optical calculations of Cu(In,Ga)Se ₂ ternary chalcopyrites. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 2516-2528	1.3	42
42	First-principles elastic constants and electronic structure of BP, BAs, and BSb. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 2881-2885	1.3	95
41	Full potential calculation of structural, electronic and elastic properties of alkaline earth oxides MgO, CaO and SrO. <i>Physica B: Condensed Matter</i> , 2004 , 344, 334-342	2.8	102

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