Sushil Auluck

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7362232/publications.pdf

Version: 2024-02-01

307	7,204	66343	102487
papers	citations	42 h-index	66 g-index

323	323	323	6639
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the Penn Gap in Semiconductors. Physica Status Solidi (B): Basic Research, 1979, 93, K155.	1.5	398
2	Dispersion of linear and nonlinear optical susceptibilities and the hyperpolarizability of 3-methyl-4-phenyl-5-(2-pyridyl)-1,2,4-triazole. Physical Chemistry Chemical Physics, 2011, 13, 2945-2952.	2.8	155
3	Linear, non-linear optical susceptibilities and the hyperpolarizability of the mixed crystals Ag0.5Pb1.75Ge(S1â^'xSex)4: experiment and theory. Physical Chemistry Chemical Physics, 2013, 15, 18979.	2.8	150
4	Optical properties of the group-IVBrefractory metal compounds. Physical Review B, 1996, 54, 1673-1681.	3.2	147
5	Ferroelectric polarization promoted bulk charge separation for highly efficient CO2 photoreduction of SrBi4Ti4O15. Nano Energy, 2019, 56, 840-850.	16.0	144
6	Mg3Sb2-based Zintl compound: a non-toxic, inexpensive and abundant thermoelectric material for power generation. RSC Advances, 2013, 3, 8504.	3.6	133
7	Doping and temperature dependence of thermoelectric properties in Mg2(Si,Sn). Physical Review B, 2012, 86, .	3.2	126
8	Investigation of the Linear and Nonlinear Optical Susceptibilities of KTiOPO₄ Single Crystals: Theory and Experiment. Journal of Physical Chemistry B, 2010, 114, 16705-16712.	2.6	119
9	Optical properties of graphite from first-principles calculations. Physical Review B, 1997, 55, 4999-5005.	3.2	115
10	Room Temperature Nanoscale Ferroelectricity in MagnetoelectricGaFeO3Epitaxial Thin Films. Physical Review Letters, 2013, 111, 087601.	7.8	99
11	Interband optical properties ofNi3Al. Physical Review B, 1993, 48, 16974-16978.	3.2	93
12	Band energy and thermoelectricity of filled skutterudites LaFe4Sb12 and CeFe4Sb12. Journal of Alloys and Compounds, 2007, 437, 39-46.	5.5	90
13	Electronic structure, magnetism, and Fermi surfaces of Gd and Tb. Physical Review B, 1994, 50, 5147-5154.	3.2	86
14	Optical properties of monoclinic SnI2from relativistic first-principles theory. Physical Review B, 1997, 56, 6851-6861.	3.2	82
15	Electronic and optical properties of the1Tphases ofTiS2,TiSe2,andTiTe2. Physical Review B, 2003, 68, .	3.2	82
16	Calculated optical properties of2Hâ^'MoS2intercalated with lithium. Physical Review B, 2003, 68, .	3.2	80
17	Thermoelectric properties of a single graphene sheet and its derivatives. Journal of Materials Chemistry C, 2014, 2, 2346.	5.5	79
18	Structural, thermodynamic and optical properties of MgF2 studied from first-principles theory. Journal of Solid State Chemistry, 2011, 184, 343-350.	2.9	75

#	Article	IF	Citations
19	Coupling ferroelectric polarization and anisotropic charge migration for enhanced CO2 photoreduction. Applied Catalysis B: Environmental, 2021, 284, 119709.	20.2	74
20	Engineering oxygen vacancies towards self-activated BaLuAl_xZn_{4â^'x}O_{7â^'(1â^'x)/2}photoluminescent materials: an experimental and theoretical analysis. Physical Chemistry Chemical Physics, 2015, 17, 31188-31194.	2.8	64
21	Optical properties of PdO and PtO. Physical Review B, 1994, 50, 2128-2132.	3.2	63
22	Visible-Light-Responsive SillÃ©n-Structured Mixed-Cationic CdBiO₂Br Nanosheets: Layer Structure Design Promoting Charge Separation and Oxygen Activation Reactions. Journal of Physical Chemistry C, 2018, 122, 2661-2672.	3.1	60
23	Electronic structure of graphite: Effect of hydrostatic pressure. Physical Review B, 1995, 51, 4813-4819.	3.2	57
24	Optical properties and band structure of2Hâ^'WSe2. Physical Review B, 1999, 60, 8610-8615.	3.2	57
25	Effect of U on the Electronic Properties of Neodymium Gallate (NdGaO₃): Theoretical and Experimental Studies. Journal of Physical Chemistry B, 2009, 113, 15237-15242.	2.6	53
26	Theoretical investigation of the electronic and optical properties of ZrX2 (X=S, Se and Te). Physica B: Condensed Matter, 2004, 353, 230-237.	2.7	52
27	Electronic structure and optical properties of rare earth sesquioxides (R2O3, R=La, Pr, and Nd). Journal of Applied Physics, 2006, 100, 083525.	2.5	52
28	First-Principles Calculations of Structural, Elastic, Electronic, and Optical Properties of Perovskite-type KMgH₃ Crystals: Novel Hydrogen Storage Material. Journal of Physical Chemistry B, 2011, 115, 2836-2841.	2.6	52
29	Specific features in the band structure and linear and nonlinear optical susceptibilities ofLa2CaB10O19crystals. Physical Review B, 2007, 75, .	3.2	51
30	Linear and nonlinear optical susceptibilities for a novel borate oxide BaBiBO4: Theory and experiment. Journal of Solid State Chemistry, 2008, 181, 789-795.	2.9	48
31	Abinitiocalculation of molecular field interactions in rareâ€earth transitionâ€metal intermetallics (invited). Journal of Applied Physics, 1991, 70, 5972-5976.	2.5	47
32	Effect of increasing tellurium content on the electronic and optical properties of cadmium selenide telluride alloys CdSe1â^'xTex: An ab initio study. Journal of Alloys and Compounds, 2011, 509, 6737-6750.	5.5	47
33	Thermoelectric properties of Cu3SbSe3 with intrinsically ultralow lattice thermal conductivity. Journal of Materials Chemistry A, 2014, 2, 15829-15835.	10.3	47
34	Photoconducting state and its perturbation by electrostatic fields in oxide-based two-dimensional electron gas. Physical Review B, 2012, 86, .	3.2	46
35	Electronic Structure of Quaternary Chalcogenide Ag₂In₂Ge(Si)S₆ Single Crystals and the Influence of Replacing Ge by Si: Experimental X-Ray Photoelectron Spectroscopy and X-Ray Diffraction Studies and Theoretical Calculations. Science of Advanced Materials, 2013, 5, 316-327.	0.7	46
36	Thermoelectric properties of Nowotnyâ€“Juza NaZnX (X = P, As and Sb) compounds. Computational Materials Science, 2015, 96, 90-95.	3.0	46

#	Article	IF	Citations
37	Band structure and optical response of2Hâ^'MoX2compounds (X=S, Se, and Te). Physical Review B, 2005, 71, .	3.2	45
38	Ab initio calculations of the electronic, linear and nonlinear optical properties of zinc chalcogenides. Physica B: Condensed Matter, 2007, 388, 34-42.	2.7	45
39	Dispersion of linear and non-linear optical susceptibilities for amino acid 2-aminopropanoic CH3CH(NH2)COOH single crystals: experimental and theoretical investigations. Journal of Materials Chemistry, 2011, 21, 17219.	6.7	45
40	Electronic and Magneto-Optical Properties of Rare-Earth Orthoferrites RFeO3 (R = Y, Sm, Eu, Gd and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	6.7	45
41	Electrical transport and mechanical properties of thermoelectric tin selenide. RSC Advances, 2016, 6, 11562-11569.	3.6	44
42	First and second harmonic generation of the optical susceptibilities for the non-centro-symmetric orthorhombic AgCd₂GaS₄. Journal of Physics Condensed Matter, 2008, 20, 325234.	1.8	43
43	Acentric Nonlinear Optical 2,4-Dihydroxyl Hydrazone Isomorphic Crystals with Large Linear, Nonlinear Optical Susceptibilities and Hyperpolarizability. Journal of Physical Chemistry B, 2012, 116, 4677-4683.	2.6	43
44	Physical property and electronic structure characterization of bulk superconducting Bi₃Ni. Superconductor Science and Technology, 2011, 24, 085002.	3.5	42
45	Electronic and optical properties of redHgI2. Physical Review B, 1996, 54, 10419-10424.	3.2	41
46	Several features of nonlinear optical susceptibilities of LiGaX2 (X=S, Se) ternary compounds. Journal of Alloys and Compounds, 2009, 473, 20-24.	5.5	40
47	Linear and Nonlinear Optical Susceptibilities of 3-Phenylamino-4-phenyl-1,2,4-triazole-5-thione. Journal of Physical Chemistry B, 2010, 114, 1815-1821.	2.6	40
48	Electronic structure, Born effective charges and spontaneous polarization in magnetoelectric gallium ferrite. Journal of Physics Condensed Matter, 2011, 23, 325902.	1.8	39
49	Linear and Nonlinear Optical Susceptibilities and the Hyperpolarizability of Borate LiBaB₉O₁₅ Single-Crystal: Theory and Experiment. Journal of Physical Chemistry B, 2013, 117, 14141-14150.	2.6	39
50	Calculated magneto-optical properties of cubic and tetragonal Fe, Co, and Ni. Physical Review B, 1999, 60, 14105-14114.	3.2	38
51	Electronic structure of1Tâ^'TiS2. Physical Review B, 1999, 59, 14833-14836.	3.2	38
52	Optical properties of the compoundsBaTiO3andSrTiO3. Physical Review B, 2004, 69, .	3.2	38
53	Influence of Replacing Si by Ge in the Chalcogenide Quaternary Sulfides Ag2In2Si(Ge)S6 on the Chemical Bonding, Linear and Nonlinear Optical Susceptibilities, and Hyperpolarizability. Journal of Physical Chemistry B, 2013, 117, 2545-2553.	2.6	38
54	Optical Properties and Electronic Structure of Spinel ZnRh2O4. Chemistry of Materials, 2006, 18, 2696-2700.	6.7	37

#	Article	IF	Citations
55	Electronic structure and optical properties of 1T-TiS2 and lithium intercalated 1T-TiS2 for lithium batteries. Journal of Chemical Physics, 2008, 129, 074706.	3.0	37
56	Implications of nanostructuring on the thermoelectric properties in half-Heusler alloys. Applied Physics Letters, 2012, 101, .	3.3	37
57	Electronic Structure and Bulk Spin-Valve Behavior inCa3Ru2O7. Physical Review Letters, 2006, 96, 097203.	7.8	36
58	Optical Spectra and Band Structure of Ag_xGa_xGe_{1â€“x}Se₂ (x = 0.333,) Tj ETQq0 0 0 rgBT /Ov 15220-15231.	2.6	36
59	Adsorbing H2S onto a single graphene sheet: A possible gas sensor. Journal of Applied Physics, 2014, 116, .	2.5	36
60	Suppression of Jahnâ€“Teller distortion by chromium and magnesium doping in spinel LiMn2O4: A first-principles study using GGA and GGA+U. Journal of Physics and Chemistry of Solids, 2009, 70, 1200-1206.	4.0	35
61	Temperature dependence of the energy Gap in PbS, PbSe, and PbTe. Physica Status Solidi A, 1979, 52, K151-K155.	1.7	34
62	Band structure and transport studies of copper selenide: An efficient thermoelectric material. Applied Physics Letters, 2014, 105, .	3.3	34
63	Full-potential calculations of the electronic and optical properties for 1T and 2H phases of TaS2 and TaSe2. Physica B: Condensed Matter, 2005, 358, 158-165.	2.7	33
64	Phase stability in ferroelectric bismuth titanate: a first-principles study. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, 368-375.	0.3	33
65	Controlled synthesis, optical and electronic properties of Eu3+ doped yttrium oxysulfide (Y2O2S) nanostructures. Journal of Colloid and Interface Science, 2009, 336, 889-897.	9.4	33
66	Bismuth-containing semiconductors: Linear and nonlinear optical susceptibilities of GaAs1âˆ’xBix alloys. Journal of Alloys and Compounds, 2011, 509, 9685-9691.	5.5	33
67	Insight into crystal-structure dependent charge separation and photo-redox catalysis: A combined experimental and theoretical study on Bi(IO3)3 and BiOIO3. Applied Surface Science, 2018, 458, 129-138.	6.1	33
68	Investigation of the electronic properties, first and second harmonic generation for AXIIIBXV zinc-blende semiconductors. Physica B: Condensed Matter, 2007, 395, 143-150.	2.7	32
69	Electronic properties of chalcopyrite CuAlX2(X=S,Se,Te) compounds. Solid State Communications, 2008, 145, 571-576.	1.9	32
70	Electronic band structure and specific features of AA- and AB-stacking of carbon nitride (C3N4): DFT calculation. RSC Advances, 2014, 4, 6957.	3.6	32
71	Alkali-metal/alkaline-earth-metal fluorine beryllium borate NaSr3Be3B3O9F4with large nonlinear optical properties in the deep-ultraviolet region. Journal of Applied Physics, 2015, 117, 085703.	2.5	32
72	Collective Effect of Fe and Se To Improve the Thermoelectric Performance of Unfilled p-Type CoSb₃ Skutterudites. ACS Applied Energy Materials, 2019, 2, 1067-1076.	5.1	32

#	Article	IF	Citations
73	Ab initio calculations of the electronic and optical properties of 1T-HfX2 compounds. Physica B: Condensed Matter, 2005, 363, 25-31.	2.7	31
74	Electronic structure and optical properties of rare earth hexaborides RB₆(R = La, Ce, Pr,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.8	31
75	Experimental and theoretical investigations of the first and second order optical susceptibilities of BiB3O6 single crystal. Applied Physics A: Materials Science and Processing, 2008, 91, 451-457.	2.3	31
76	X-ray diffraction and optical properties of a noncentrosymmetric borate CaBiGaB2O7. Journal of Chemical Physics, 2008, 129, 204111.	3.0	31
77	Dispersion of Linear, Nonlinear Optical Susceptibilities and Hyperpolarizability of C₁₁H₈N₂O (o-Methoxydicyanovinylbenzene) Crystals. Journal of Physical Chemistry B, 2012, 116, 13338-13343.	2.6	31
78	The influence of oxygen vacancies on the linear and nonlinear optical properties of Pb₇O(OH)₃(CO₃)₃(BO₃). RSC Advances, 2017, 7, 14752-14760.	3.6	31
79	Linear and nonlinear optical properties for AA and AB stacking of carbon nitride polymorph (C₃N₄). RSC Advances, 2014, 4, 11967-11974.	3.6	30
80	High Thermoelectric Performance in n-Type Degenerate ZrNiSn-Based Half-Heusler Alloys Driven by Enhanced Weighted Mobility and Lattice Anharmonicity. ACS Applied Energy Materials, 2021, 4, 3393-3403.	5.1	30
81	Temperatureâ€Dependent Effective Masses in IIIâ€V Compound Semiconductors. Physica Status Solidi (B): Basic Research, 1983, 120, 715-721.	1.5	29
82	Enhancement in thermoelectric performance of single step synthesized Mg doped Cu2Se: An experimental and theoretical study. Intermetallics, 2019, 112, 106541.	3.9	29
83	Electronic structure, Fermi surface, and Curie temperature calculations for the Co-Pt system. Physical Review B, 1999, 60, 2262-2267.	3.2	28
84	Evolution of ferromagnetic and spin-wave resonances with crystalline order in thin films of full-Heusler alloy Co2MnSi. Journal of Applied Physics, 2012, 111, 023912.	2.5	28
85	Electronic structure of LaRh3B2 and CeRh3B2. Solid State Communications, 1984, 52, 955-959.	1.9	27
86	Electronic properties of orthorhombic LiGaS2 and LiGaSe2. Applied Physics A: Materials Science and Processing, 2009, 94, 315-320.	2.3	27
87	First-principles calculations of Born effective charges and spontaneous polarization of ferroelectric bismuth titanate. Journal of Physics Condensed Matter, 2010, 22, 165902.	1.8	27
88	Bismuth in gallium arsenide: Structural and electronic properties of GaAs1â^'xBix alloys. Journal of Solid State Chemistry, 2012, 186, 47-53.	2.9	27
89	Band Structure Modification and Mass Fluctuation Effects of Isoelectronic Germanium-Doping on Thermoelectric Properties of ZrNiSn. ACS Applied Energy Materials, 2020, 3, 1349-1357.	5.1	27
90	Calculated optical properties of a solar energy material: CuGaS2. Solar Energy Materials and Solar Cells, 1998, 53, 357-366.	6.2	26

#	Article	IF	Citations
91	X-ray photoelectron spectra and the electronic band structure for non-centrosymmetric Bi2ZnB2O7 nonlinear single crystal. Current Opinion in Solid State and Materials Science, 2008, 12, 26-31.	11.5	26
92	Electronic structure and Fermi surface ofNi3Al. Physical Review B, 1992, 45, 13930-13937.	3.2	25
93	Optical properties of A1N. Solid State Communications, 1995, 94, 1009-1012.	1.9	25
94	Electronic band structure of AgCd2GaS4: theory and experiment. Journal of Physics Condensed Matter, 2008, 20, 325213.	1.8	25
95	Electronic Band Structure and Optical Properties of Sr_{n+1}Ti_nO_{3n+1} Ruddlesdenâ€“Popper Homologous Series. Japanese Journal of Applied Physics, 2008, 47, 5516.	1.5	25
96	Absorption and photoconductivity spectra of Ag2GeS3 crystal: Experiment and theory. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 93, 274-279.	3.9	25
97	Electronic and optical properties of chair-like and boat-like graphane. RSC Advances, 2014, 4, 37411-37418.	3.6	25
98	Mono and bi-layer germanene as prospective anode material for Li-ion batteries: A first-principles study. Computational Condensed Matter, 2018, 16, e00314.	2.1	25
99	Full potential results on the magneto-optical properties of the Heusler compounds Co₂FeX (X = Al, Ga, Si and Ge). Journal of Physics Condensed Matter, 2009, 21, 196003.	1.8	24
100	Density functional calculations of the electronic structure of 3-phenylamino-4-phenyl-1,2,4-triazole-5-thione. Physical Chemistry Chemical Physics, 2010, 12, 2975.	2.8	24
101	Electronic and optical properties of ordered Be_xZn_{1â^’x}Se alloys by the FPLAPW method. Journal of Physics Condensed Matter, 2008, 20, 075205.	1.8	23
102	X-ray Photoelectron Spectrum and Electronic Properties of a Noncentrosymmetric Chalcopyrite Compound HgGa2S4: LDA, GGA, and EV-GGA. Journal of Physical Chemistry B, 2009, 113, 5803-5808.	2.6	23
103	Two haloid borate crystals with large nonlinear optical response. Physical Chemistry Chemical Physics, 2017, 19, 18416-18425.	2.8	23
104	Electronic and optical properties of2Hâ^’WSe2intercalated with copper. Physical Review B, 2003, 68, .	3.2	22
105	Ab-initio study of electronic and optical properties of InN in wurtzite and cubic phases. Optics Communications, 2010, 283, 4655-4661.	2.1	22
106	A DFT study of the electronic and optical properties of a photovoltaic absorber material Cu2ZnGeS4 using GGA and mBJ exchange correlation potentials. Journal of Alloys and Compounds, 2016, 675, 236-243.	5.5	22
107	Role of spinâ€“orbit interaction on the nonlinear optical response of CsPbCO₃F using DFT. Physical Chemistry Chemical Physics, 2017, 19, 31255-31266.	2.8	22
108	Optical properties of 1T and 2H phase of TaS2 and TaSe2. Pramana - Journal of Physics, 2000, 54, 431-440.	1.8	21

#	Article	IF	Citations
109	Photoinduced non-linear optical effects in lanthanum calcium borate single crystals. Journal of Materials Science, 2006, 41, 1927-1932.	3.7	21
110	Energy band structure and density of states for BaBiBO4 nonlinear optical crystal. Journal of Alloys and Compounds, 2008, 460, 99-102.	5.5	21
111	Dispersion of the linear and nonlinear optical susceptibilities of disilver germanium sulfide from DFT calculations. Journal of Materials Science, 2013, 48, 1955-1965.	3.7	21
112	Synthesis, Crystal Structure, and Optical Gap of Two-Dimensional Halide Solid Solutions CsPb₂(Cl_{1â€“x}Br_x)₅. Inorganic Chemistry, 2018, 57, 9531-9537.	4.0	21
113	Electronic structure of ferromagnetic iron: Band structure and optical properties. Physical Review B, 1986, 34, 2299-2305.	3.2	20
114	Electronic structure, linear, nonlinear optical susceptibilities and birefringence of CuInX2(X = S, Se,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	20
115	Band structure features of nonlinear optical yttrium aluminium borate crystal. Solid State Sciences, 2008, 10, 1445-1448.	3.2	20
116	Birefringence, linear and nonlinear second-order optical susceptibilities of a noncentrosymmetric chalcopyrite compound HgGa2S4. Current Opinion in Solid State and Materials Science, 2008, 12, 14-18.	11.5	20
117	Linear and nonlinear optical susceptibilities and hyperpolarizability of borate LiNaB4O7 single crystals: Theory and experiment. Journal of Applied Physics, 2012, 112, .	2.5	20
118	X-ray photoelectron spectrum, X-ray diffraction data, and electronic structure of chalcogenide quaternary sulfide Ag2In2GeS6: experiment and theory. Journal of Materials Science, 2013, 48, 1342-1350.	3.7	20
119	Electronic structure, charge density, and chemical bonding properties of C11H8N2O o-methoxydicyanovinylbenzene (DIVA) single crystal. Journal of Materials Science, 2013, 48, 5157-5162.	3.7	20
120	An interaction potential to study the thermal structure evolution of a thermoelectric material: Î²â€Cu₂Se. Journal of Computational Chemistry, 2017, 38, 2161-2170.	3.3	20
121	Specific features of second order optical susceptibilities for a complex borate crystal Bi2ZnB2O7: Experiment and theory. Current Opinion in Solid State and Materials Science, 2007, 11, 33-39.	11.5	19
122	Comparative study of optical and magneto-optical properties of GdFe2and GdCo2. Journal of Physics Condensed Matter, 2007, 19, 176203.	1.8	19
123	The linear and nonlinear optical properties of WSxSe2â^'x (x=0.5, 1.5, and 2.0). Physica B: Condensed Matter, 2007, 393, 88-93.	2.7	19
124	Optical susceptibilities of Na3La9O3(BO3)8, ternary oxyborate nonlinear single crystal: theory and experiment. Journal of Physics Condensed Matter, 2008, 20, 145209.	1.8	19
125	Optical properties of bismuth germanate. Journal of Applied Physics, 2010, 107, 013514.	2.5	19
126	Cation modified A 2 (Ba, Sr and Ca) ZnWO 6 cubic double perovskites: A theoretical study. Computational Condensed Matter, 2018, 14, 27-35.	2.1	19

#	Article	IF	Citations
127	Correlation between anisotropy in the normal-state mass renormalization and anisotropy in the superconducting energy gap for zinc. Journal of Low Temperature Physics, 1973, 12, 601-629.	1.4	18
128	Calculated structural, electronic and optical properties of Ga-based semiconductors under pressure. Physica B: Condensed Matter, 2008, 403, 3077-3088.	2.7	18
129	Chalcogen height dependence of magnetism and Fermiology in FeTe_xSe_{1â^'x}. Superconductor Science and Technology, 2012, 25, 095002.	3.5	18
130	Study of ferromagnetic instability in -MnAl, using first-principles. Journal of Alloys and Compounds, 2014, 601, 234-237.	5.5	18
131	Enhancing gas adsorption properties of borophene by embedding transition metals. Computational Condensed Matter, 2020, 22, e00436.	2.1	18
132	Superconductivity in the palladium-hydrogen system. Lettere Al Nuovo Cimento Rivista Internazionale Della SocietÃ Italiana Di Fisica, 1973, 7, 545-549.	0.4	17
133	Theoretical investigation of the optical and magneto-optical properties of EuX (X=S, Se, and Te). Physica B: Condensed Matter, 2007, 388, 99-106.	2.7	16
134	Dispersion of Linear and Nonlinear Optical Susceptibilities in Calcium Neodymium Oxyborate Ca₄NdO(BO₃)₃â^'LDA versus GGA. Journal of Physical Chemistry A, 2009, 113, 1614-1622.	2.5	16
135	Structural properties and bonding nature of 3-methyl-4-phenyl-5-(2-pyridyl)-1,2,4-triazole single crystal. Materials Chemistry and Physics, 2011, 130, 458-465.	4.0	16
136	Effect of site-disorder on magnetism and magneto-structural coupling in gallium ferrite: A first-principles study. Journal of Applied Physics, 2012, 111, .	2.5	16
137	Structural, electronic properties and charge density distribution of the LiNaB4O7: Theory and experiment. Materials Chemistry and Physics, 2012, 137, 346-352.	4.0	16
138	Thermodynamical and electronic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0009.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">B</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow><mml:mr <mml:mrow><mml:mi mathvariant="normal">N</mml:mi></mml:mrow></mml:math>alloys: A first principle. Journal of Physics and Chemistry of Solids, 2015, 86, 101-107.	4.0	16
139	Spin-dependent scattering induced negative magnetoresistance in topological insulator Bi2Te3 nanowires. Scientific Reports, 2019, 9, 7836.	3.3	16
140	Electronic structure of platinum. Journal of Physics F: Metal Physics, 1983, 13, 2101-2105.	1.6	15
141	Theory of the Curie temperatures of the rare earth metals. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1496-1498.	2.3	15
142	Optical properties of heavy rare earth metals (Gdâ€“Lu). Solid State Communications, 2006, 140, 125-129.	1.9	15
143	Electronic structure, chemical bonding features, and electron charge density of the double-cubane single crystal [Sb7S8Br2](AlCl4)3. Applied Physics Letters, 2011, 98, 201903.	3.3	15
144	Unexplored photoluminescence from bulk and mechanically exfoliated few layers of Bi2Te3. Scientific Reports, 2018, 8, 9205.	3.3	15

#	Article	IF	Citations
145	Tin doped Cu3SbSe4: A stable thermoelectric analogue for the mid-temperature applications. Materials Research Bulletin, 2019, 113, 38-44.	5.2	15
146	Density functional theory of molecular fields in R-M systems. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1381-1382.	2.3	14
147	Band structure calculations of heavy fermion YbSbPd and YbSbNi. Journal of Applied Physics, 1994, 75, 6301-6302.	2.5	14
148	Optical second harmonic generation in Yttrium Aluminum Borate single crystals (theoretical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T	0.9	14
149	Ab Initio Calculation of the Electronic Band Structure, Density of States and Optical Properties of Î±-2-Methyl-1-nitroisothiourea. Journal of Physical Chemistry B, 2009, 113, 12648-12654.	2.6	14
150	Second Harmonic Generation and Hyperpolarizabilities of the Double-Cubane Compound [Sb₇S₈Br₂](AlCl₄)₃: Chalcogenide in Ionic Liquids. Journal of Physical Chemistry B, 2011, 115, 11763-11769.	2.6	14
151	Effects of site disorder, off-stoichiometry and epitaxial strain on the optical properties of magnetoelectric gallium ferrite. Journal of Physics Condensed Matter, 2012, 24, 435501.	1.8	14
152	Effect of lead and caesium on the mechanical, vibrational and thermodynamic properties of hexagonal fluorocarbonates: a comparative first principles study. RSC Advances, 2016, 6, 99885-99897.	3.6	14
153	Theoretical investigations of the electronic and optical properties of pure and alkali metal intercalated 1T-VSe2. Physica B: Condensed Matter, 2004, 349, 310-315.	2.7	13
154	Structural, electronic and optical properties of high pressure stable phases of ZnTe. Physica B: Condensed Matter, 2009, 404, 3789-3794.	2.7	13
155	Magneto-optical properties of transition metal compounds XPt3 (X=V, Cr, Mn, Fe, Co) and X3Pt (X=Fe,) Tj ETQq1 1 0.784314 rgBT /Ov	5.5	13
156	Band structure and optical properties of graphite. Solid State Communications, 1996, 100, 645-649.	1.9	12
157	Band structure and optical properties ofHgI2. Physical Review B, 1997, 55, 9215-9218.	3.2	12
158	First-principles calculations of electronic and optical properties of Fe_{3â^'x}V_xAl (x= 0â€“3) compounds. Journal of Physics Condensed Matter, 2009, 21, 446001.	1.8	12
159	Electronic and optical properties of rare earth trifluorides RF3 (R=La, Ce, Pr, Nd, Gd and Dy). Materials Chemistry and Physics, 2011, 129, 349-355.	4.0	12
160	Engineering polarization rotation in ferroelectric bismuth titanate. Applied Physics Letters, 2013, 102, .	3.3	12
161	Linear and nonlinear optical susceptibilities of bilayer graphene. Materials Express, 2014, 4, 508-520.	0.5	12
162	Electronic structure, defect properties, and hydrogen storage capacity of 2H-WS2: A first-principles study. International Journal of Hydrogen Energy, 2018, 43, 23126-23134.	7.1	12

#	Article	IF	Citations
163	Wave-vector-dependent dielectric function for a model semiconductor. Physical Review B, 1981, 23, 874-878.	3.2	11
164	Electronic structure of ferromagnetic iron: Fermi surface. Physical Review B, 1985, 32, 6424-6428.	3.2	11
165	Fermi surface of the noble metals. Pramana - Journal of Physics, 1989, 32, 831-840.	1.8	11
166	Theory of the magnetism of ternary uranium compounds. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 37-38.	2.3	11
167	A density functional study of second-order susceptibilities in calcium samarium oxyborate Ca₄SmO(BO₃)₃. Journal Physics D: Applied Physics, 2009, 42, 085406.	2.8	11
168	Normal state and superconducting properties of Rh₁₇S₁₅and Pd₁₇Se₁₅. Superconductor Science and Technology, 2011, 24, 105015.	3.5	11
169	Crystallochemical affinity and optical functions of ZrGa2 and ZrGa3 compounds. Journal of Alloys and Compounds, 2013, 546, 14-19.	5.5	11
170	Dispersion of the linear and nonlinear optical susceptibilities of Bismuth subcarbonate Bi2O2CO3: DFT calculations. Optical Materials, 2014, 38, 80-86.	3.6	11
171	Effects of inter-site chemical disorder on the magnetic properties of MnBi. Journal of Magnetism and Magnetic Materials, 2014, 363, 18-20.	2.3	11
172	Electronic and optical properties of InP. Solid State Communications, 1997, 104, 249-252.	1.9	10
173	Optical and magneto-optical properties of gadolinium. Journal of Applied Physics, 2007, 101, 033523.	2.5	10
174	Synthesis, IR, UVâ€“vis spectra, x-ray diffraction and band structure of a non-centrosymmetric borate single-crystal CaBiGaB₂O₇. Journal of Physics Condensed Matter, 2009, 21, 205402.	1.8	10
175	A study of electronic and optical properties of NaBi(WO4)2: A disordered double tungstate crystal. Physica B: Condensed Matter, 2010, 405, 3267-3271.	2.7	10
176	Photo-absorption spectra of small hydrogenated silicon clusters using the time-dependent density functional theory. Journal of Physics and Chemistry of Solids, 2011, 72, 1096-1100.	4.0	10
177	Electronic and optical properties of high pressure stable phases of ZnS: Comparison of FPLAPW and PW-PP results. Optics Communications, 2011, 284, 20-26.	2.1	10
178	Photocatalytic water-splitting solar-to-hydrogen energy conversion: Novel LiMoO 3 (IO 3) molybdenyl iodate based on WO 3 -type sheets. Journal of Catalysis, 2017, 351, 1-9.	6.2	10
179	Optimization of electrical and thermal transport properties of Fe0.25Co0.75Sb3 Skutterudite employing the isoelectronic Bi-doping. Intermetallics, 2020, 123, 106796.	3.9	10
180	Fermi surface and band structure of ferromagnetic nickel. Physical Review B, 1977, 16, 1765-1767.	3.2	9

#	Article	IF	Citations
181	Modified calculations on the wave-vector-dependent dielectric function for a model semiconductor. Physical Review B, 1982, 26, 1050-1051.	3.2	9
182	Model study of the frequency-dependent dielectric properties of semiconductors. Physical Review B, 1983, 28, 965-970.	3.2	9
183	The electronic structure and magnetism of MoPd3and MnPd3. Journal of Physics Condensed Matter, 1989, 1, 2211-2215.	1.8	9
184	Electronic structure and optical properties of thorium monopnictides. Bulletin of Materials Science, 2003, 26, 165-168.	1.7	9
185	Structural, Electronic, and Optical Properties of In_xGa_{1-x}As Alloys by Full Potential Linear Augmented Plane Wave Method. Japanese Journal of Applied Physics, 2008, 47, 5417.	1.5	9
186	Basic nanosystems of early 4d and 5d transition metals: Electronic properties and the effect of spin-orbit interaction. Journal of Applied Physics, 2008, 104, 014302.	2.5	9
187	Comparison of the Density of States Obtained from the X-ray Photoelectron Spectra with the Electronic Structure Calculations for Î±-BiB3O6. Japanese Journal of Applied Physics, 2009, 48, 011601.	1.5	9
188	Optical properties and critical points in ordered BexZn1â^'xSe alloys. Journal of Alloys and Compounds, 2009, 480, 717-722.	5.5	9
189	Amino acid 2-aminopropanoic CH3CH(NH2)COOH crystals: materials for photo- and acoustoinduced optoelectronic applications. Journal of Materials Science: Materials in Electronics, 2012, 23, 1922-1931.	2.2	9
190	Single-crystal oxoborate (Pb3O)2(BO3)2WO4: Growth and characterization. Materials Research Bulletin, 2012, 47, 2552-2560.	5.2	9
191	Electronic and optical features of the mixed crystals Ag0.5Pb1.75Ge(S1â€“xSex)4. Journal of Materials Chemistry C, 2013, 1, 4667.	5.5	9
192	Density functional study of electronic, charge density, and chemical bonding properties of 9-methyl-3-Thiophen-2-YI-Thieno [3,2-e] [1, 2, 4] Thriazolo [4,3-c] pyrimidine-8-Carboxylic acid ethyl ester crystals. Journal of Magnetism and Magnetic Materials, 2014, 361, 206-211.	2.3	9
193	Anisotropy and high thermopower of LaOBiS2. Journal of Alloys and Compounds, 2015, 626, 208-211.	5.5	9
194	Band gap engineering of Si-Ge alloys for mid-temperature thermoelectric applications. AIP Advances, 2015, 5, 037145.	1.3	9
195	Stability, electronic, and optical properties of wurtzite Cu2CdxZn1â^'xSnS4 alloys as photovoltaic materials: First-principles insight. Physical Review B, 2016, 94, .	3.2	9
196	Experimental and theoretical study of the electronic structure and optical spectral features of Pbln₆Te₁₀. RSC Advances, 2016, 6, 73107-73117.	3.6	9
197	Thermal conductivity of thermoelectric material Î²-Cu2Se: Implications on phonon thermal transport. Applied Physics Letters, 2017, 111, .	3.3	9
198	Enhanced thermoelectric performance of Bi0.5Sb1.5Te3 via Ni-doping: A Shift of peak ZT at elevated temperature via suppressing intrinsic excitation. Journal of Materiomics, 2021, 7, 1264-1274.	5.7	9

#	Article	IF	Citations
199	Transverse dielectric function for a model semiconductor. Physical Review B, 1981, 24, 4729-4735.	3.2	8
200	Application of Specialâ€Directions Method to the Optical Properties of Copper and Silver. Physica Status Solidi (B): Basic Research, 1983, 118, 575-586.	1.5	8
201	Electronic structure of palladium. Physical Review B, 1983, 27, 5116-5118.	3.2	8
202	Effect of pressure on the Fermi surface of noble metals. Physical Review B, 1989, 39, 9806-9808.	3.2	8
203	Electronic structure and Fermi surface ofNi3Fe. Physical Review B, 1993, 47, 1726-1731.	3.2	8
204	Effect of pressure on the Curie temperature ofFe3Pt. Physical Review B, 1995, 52, 13471-13474.	3.2	8
205	Calculated electronic and optical properties of a graphite intercalation compound:. Journal of Physics Condensed Matter, 1997, 9, 9845-9852.	1.8	8
206	Pressure induced, electronic and optical properties of zincblende InP. Solid-State Electronics, 2008, 52, 749-755.	1.4	8
207	Electronic and magnetic behavior of ultrathin Ti nanowires. Journal of Magnetism and Magnetic Materials, 2009, 321, 1856-1862.	2.3	8
208	Band Structure, Density of States, and Optical Susceptibilities of a Novel Lithium Indium Orthoborate Li₃InB₂O₆. Journal of Physical Chemistry B, 2009, 113, 11583-11588.	2.6	8
209	X-ray Diffraction, X-ray Photoelectron Spectra, Crystal Structure, and Optical Properties of Centrosymmetric Strontium Borate Sr2B16O26. Journal of Physical Chemistry B, 2009, 113, 9161-9167.	2.6	8
210	Electronic band structure and optical properties of titanium oxyphosphates Li0.50Co0.25TiO(PO4) single crystals: An ab-initio calculations. Journal of Solid State Chemistry, 2011, 184, 2131-2138.	2.9	8
211	Electronic and optical properties of free-standing and supported vanadium nanowires. Journal of Applied Physics, 2012, 111, 093506.	2.5	8
212	Effect of pressure on itinerant magnetism and spin disorder in cubic FeGe. Journal of Physics Condensed Matter, 2012, 24, 096003.	1.8	8
213	Dispersion of the linear and nonlinear optical susceptibilities of the CuAl(S1â^'xSex)2 mixed chalcopyrite compounds. Journal of Applied Physics, 2014, 116, .	2.5	8
214	Oxygen Induced Enhanced Photoanodic Response of ZnTe:O Thin Films: Modifications in Optical and Electronic Properties. Journal of Physical Chemistry C, 2017, 121, 1488-1497.	3.1	8
215	Photoemission, electronic structure, and magnetism inVPd3. Physical Review B, 1985, 31, 3356-3360.	3.2	7
216	Frequency-dependent dielectric function of Pd and Pt. Journal of Physics F: Metal Physics, 1988, 18, 237-248.	1.6	7

#	Article	IF	Citations
217	Calculated groundâ€state properties of ternary uranium compounds. Journal of Applied Physics, 1991, 70, 6580-6582.	2.5	7
218	Fermi surface of noble metals: Full-potential generalized-gradient-approximation calculations. Physical Review B, 1994, 50, 11183-11186.	3.2	7
219	Pressure induced magnetic phase transition in Fe3Pt. Journal of Alloys and Compounds, 1996, 240, 124-127.	5.5	7
220	X-ray Diffraction, Crystal Structure, and Spectral Features of the Optical Susceptibilities of Single Crystals of the Ternary Borate Oxide Lead Bismuth Tetraoxide, PbBiBO₄. Journal of Physical Chemistry B, 2009, 113, 6640-6646.	2.6	7
221	Band structure, density of states, and crystal chemistry of ZrGa2 and ZrGa3 single crystals. Journal of Alloys and Compounds, 2013, 556, 259-265.	5.5	7
222	Electronic structure, density of electronic states, and the chemical bonding properties of 2,4-dihydroxyl hydrazone crystals (C13H11N3O4). Journal of Materials Science, 2013, 48, 3805-3811.	3.7	7
223	LiMoO 3 (IO 3), a novel molybdenyl iodate with strong second-order optical nonlinearity. Journal of Alloys and Compounds, 2016, 660, 32-38.	5.5	7
224	Empirical Correlations in Transition-Metal Binary Alloys. Physical Review B, 1973, 7, 1201-1204.	3.2	6
225	Wavevector dependent susceptibility nad dielectric function for copper. Journal of Physics F: Metal Physics, 1975, 5, 1385-1398.	1.6	6
226	Density of States and Optical Conductivity of Ferromagnetic Nickel. Physica Status Solidi (B): Basic Research, 1983, 118, 105-111.	1.5	6
227	Fermi Surface and Mass Enhancement Factor for Niobium. Physica Status Solidi (B): Basic Research, 1990, 162, 497-507.	1.5	6
228	Electronic structure and optical properties ofThPd3andUPd3. Physical Review B, 2000, 62, 15547-15552.	3.2	6
229	Disorder effects on electronic and optical properties of the ternary Ga_xIn_{1â^'x}P (xâ€‰=â€‰0.25, 0.50, and 0.75) alloy. Physica Status Solidi (B): Basic Research, 2009, 246, 2294-2300.	1.5	6
230	Optical and magneto-optical properties of Fe4â^'xCox (x = 1â€“3). European Physical Journal B, 2010, 73, 423-432.	1.5	6
231	Density Functional Calculations, Electronic Structure, and Optical Properties of Molybdenum Bimetallic Nitrides Pt2Mo3N and Pd2Mo3N. Journal of Physical Chemistry B, 2011, 115, 3363-3370.	2.6	6
232	An ab initio density functional study of the optical functions of 9-Methyl-3-Thiophen-2-YI-Thieno [3,2e] [1,2,4] Thriazolo [4,3c] Pyrimidine-8-Carboxylic Acid Ethyl Ester crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 95, 582-588.	3.9	6
233	Electronic structure and magneto-optic Kerr effect in ferromagnetic titanium oxyphosphates Li0.50Co0.25TiO(PO4): An ab-initio study. Journal of Alloys and Compounds, 2012, 527, 233-239.	5.5	6
234	Experimental and theoretical investigation of the electronic structure and optical properties of TlHgCl3 single crystal. Optical Materials, 2015, 47, 445-452.	3.6	6

#	Article	IF	Citations
235	Mg9Si5: a potential non-toxic thermoelectric material for mid-temperature applications. RSC Advances, 2016, 6, 62445-62450.	3.6	6
236	Magnetism by embedding 3d transition metal atoms into germanene. Journal Physics D: Applied Physics, 2018, 51, 225006.	2.8	6
237	Renormalized electron velocities in Mg, Zn, and Cd. Journal of Low Temperature Physics, 1975, 19, 39-49.	1.4	5
238	Effect of changes in the lattice parameters on the Fermi surface of zinc. Journal of Low Temperature Physics, 1976, 25, 219-224.	1.4	5
239	Small Wave Vector q and Frequency Ï‰ Dependent Longitudinal Dielectric Funtion for a Model Semiconductor. Physica Status Solidi (B): Basic Research, 1981, 108, 587-600.	1.5	5
240	Electronic structure and Fermi surface ofNi3Mn. Physical Review B, 1993, 47, 12921-12924.	3.2	5
241	X-ray photoelectron spectroscopy and full potential studies of the electronic density of state of ternary oxyborate Na3La9O3(BO3)8. Journal of Alloys and Compounds, 2009, 472, 30-34.	5.5	5
242	Theoretical insights into kesterite and stannite phases of Cu2(Sn1â€“XGeX)ZnSe4 based alloys: A prospective photovoltaic material. AIP Advances, 2016, 6, 125303.	1.3	5
243	Band gap engineering of ZnO substituted with nitrogen and fluorine, ZnO_{1â^'3x}N_{2x}F_x: a hybrid density functional study. RSC Advances, 2016, 6, 99088-99095.	3.6	5
244	On the Pseudopotential Coefficients for Zinc and Cadmium. Physica Status Solidi (B): Basic Research, 1976, 74, K129.	1.5	4
245	Fermi Surface Charactertics of Palladium. Physica Status Solidi (B): Basic Research, 1990, 160, 549-559.	1.5	4
246	Fermi Surface Properties of Platinum. Physica Status Solidi (B): Basic Research, 1991, 168, 509-518.	1.5	4
247	Effect of hydrostatic pressure on the Fermi surface of Pd and Pt. Physical Review B, 1991, 43, 2401-2403.	3.2	4
248	Fermi surface of alkali metals using the full-potential linear muffin-tin orbital method and the generalized gradient approximation. Physical Review B, 1994, 50, 18003-18006.	3.2	4
249	Effect of pressure on the magneto-optical properties of bcc and bct iron. Physica B: Condensed Matter, 2007, 390, 185-190.	2.7	4
250	Energetics and electronic structure of La/Sr disorder at the interface of SrTiO₃/LaTiO₃ heterostructure. Applied Physics Letters, 2011, 99, 081915.	3.3	4
251	Linear optical susceptibilities of the oxoborate (Pb3O)2(BO3)2WO4: theory and experiment. Journal of Materials Science, 2012, 47, 5794-5800.	3.7	4
252	An insight into evolution of electronic, magnetic, optical, and vibrational properties of ultrathin Pd nanowires. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	4

#	Article	IF	Citations
253	Band gap engineering of CuAl_{1â^'x}In_xS₂alloys for photovoltaic applications: a first principles study. Journal Physics D: Applied Physics, 2016, 49, 205103.	2.8	4
254	Luminescence and advanced mass spectroscopic characterization of sodium zinc orthophosphate phosphor for lowâ€cost lightâ€emitting diodes. Luminescence, 2016, 31, 348-355.	2.9	4
255	Theoretical characterization of C doped SiGe monolayer. Journal of Applied Physics, 2019, 125, 145703.	2.5	4
256	Strain induced optoelectronic properties of two dimensional MnPSe₃/WS₂ heterostructure. Journal of Physics Condensed Matter, 2020, 32, 315501.	1.8	4
257	Temperature dependence of the electron-phonon interaction in zinc. Physical Review B, 1974, 9, 5334-5336.	3.2	3
258	Optical constants of copper in s-d model. Solid State Communications, 1981, 38, 275-277.	1.9	3
259	Optical properties of paramagnetic iron. Journal of Physics F: Metal Physics, 1983, 13, 2419-2425.	1.6	3
260	Magnetic and magneto-optical properties of uranium sulphide. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 35-36.	2.3	3
261	Effect of non-local corrections to the spin density functional theory for the Fermi surface of ferromagnetic nickel. Physica Scripta, 1994, 50, 573-575.	2.5	3
262	Electronic structure and the StonerIparameter forRPd3compounds (R=La, Ce, Pr, and Nd). Journal of Applied Physics, 1994, 75, 6298-6300.	2.5	3
263	Theoretical studies on electronic and magnetic properties of ultrathin Mo nanowires. Journal of Applied Physics, 2010, 107, 024307.	2.5	3
264	First-principles comparison of the cubic and tetragonal phases of. Chemical Physics Letters, 2011, 504, 148-152.	2.6	3
265	Electronic and vibrational properties of vanadium-carbide nanowires. Journal of Applied Physics, 2012, 112, .	2.5	3
266	Ab initio study of magnetism in FeSe and FeTe. , 2012, , .		3
267	Optical anisotropy in bismuth titanate: An experimental and theoretical study. Journal of Applied Physics, 2014, 115, 133509.	2.5	3
268	A density functional study of the electronic properties of bismuth subcarbonate Bi2O2CO3. Solid State Sciences, 2014, 38, 138-142.	3.2	3
269	Influence of an oxygen vacancy on the electronic structure of the asymmetric mixed borateâ€“carbonate Pb₇O(OH)₃(CO₃)₃(BO₃). RSC Advances, 2016, 6, 18965-18972.	3.6	3
270	Anisotropy and temperature dependence of electron-phonon mass enhancement in zinc. Journal of Physics F: Metal Physics, 1976, 6, L313-L317.	1.6	2

#	Article	IF	Citations
271	Inversion of the cyclotron resonance data in cadmium. Solid State Communications, 1978, 27, 353-355.	1.9	2
272	Local-field corrections to the static dielectric function of semiconductors: A model study. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 96, 255-258.	2.1	2
273	Effect of zone boundaries on the pressure dependence of the superconducting transition temperature of aluminum. Journal of Low Temperature Physics, 1985, 59, 135-142.	1.4	2
274	Wave Vector Dependent Electronic Susceptibility in the Nearly Free Electron Model. Physica Scripta, 1985, 31, 93-96.	2.5	2
275	Mass enhancement factor for Pd and Pt. Pramana - Journal of Physics, 1988, 30, 435-442.	1.8	2
276	Electronic structure and magnetism inVPt3. Physical Review B, 1989, 39, 8718-8721.	3.2	2
277	Fermi surface of ferromagnetic nickel. Physica Scripta, 1992, 45, 621-625.	2.5	2
278	Fermi surface characteristics and enhancement factors for tantalum. Pramana - Journal of Physics, 1992, 38, 189-194.	1.8	2
279	Electronic properties and Fermi surface of Ni3Pt. Physica B: Condensed Matter, 1994, 193, 248-254.	2.7	2
280	Anisotropic dielectric response of ferromagnetic cobalt. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 89-90.	2.3	2
281	Pressure dependence of optical gaps in graphite. High Pressure Research, 1995, 13, 193-197.	1.2	2
282	Magnetic CrX and MnX (X=Si, Ge, and As) nanowires: Stability enhancement and linearization. Journal of Alloys and Compounds, 2013, 547, 138-146.	5.5	2
283	Non-centrosymmetric LiBaB9O15 single crystal: growth and characterization. Indian Journal of Physics, 2015, 89, 923-929.	1.8	2
284	Effect of pressure on the Fermi surface of cadmium. Journal of Low Temperature Physics, 1976, 22, 403-406.	1.4	1
285	Optical mass and electron-velocity squared in the nearly-free-electron model. Physical Review B, 1982, 25, 7558-7561.	3.2	1
286	Frequency-dependent dielectric properties of semiconductors including local-field correlations: a model study. Journal of Physics C: Solid State Physics, 1983, 16, L1233-L1242.	1.5	1
287	Deformation parameter and ultrasonic attenuation in the nearly-free-electron model. Physical Review B, 1983, 27, 2235-2240.	3.2	1
288	Fermi surface and optical properties of a Ag-Au alloy. Physical Review B, 1984, 30, 6165-6167.	3.2	1

#	Article	IF	Citations
289	Electronic structure of ordered Pd3Fe: effect of pressure. Physica Scripta, 1992, 46, 527-530.	2.5	1
290	Effect of pressure on the Fermi surface of ferromagnetic nickel. Physical Review B, 1992, 46, 3785-3788.	3.2	1
291	The fermi surface properties of vanadium. Physica B: Condensed Matter, 1992, 179, 257-263.	2.7	1
292	Influence of Hydrostatic Pressure on the Fermi Surface of Vb Transition Metals. Physica Status Solidi (B): Basic Research, 1994, 182, 377-382.	1.5	1
293	Fermi surface and optical properties of orderedCu3Au. Physical Review B, 1997, 56, 10172-10177.	3.2	1
294	Influence of different exchange correlation potentials on band structure and optical constant calculations of ZrGa2 and ZrGe2 single crystals. Computational Materials Science, 2013, 78, 134-139.	3.0	1
295	Electronic structure of alkali-metal/alkaline-earth-metal fluorine beryllium borate NaSr3Be3B3O9F4 single crystal: DFT approach. Optical Materials, 2015, 48, 25-30.	3.6	1
296	Band Gap Tuning Of ZnO 1-3x N 2x F x Alloys: A First Principles Study. Materials Today: Proceedings, 2017, 4, 5700-5705.	1.8	1
297	Giant Kohn anomaly in a quasi-one-dimensional conductor. Journal of Physics C: Solid State Physics, 1975, 8, L139-L141.	1.5	0
298	Wavevector dependent susceptibility and dielectric function for paramagnetic nickel. Journal of Physics F: Metal Physics, 1976, 6, 889-897.	1.6	0
299	Ultrasonic attenuation in superconducting zinc. Physical Review B, 1978, 18, 522-524.	3.2	0
300	Fermi surface of noble metals using the eightâ€cone model. Physica Status Solidi (B): Basic Research, 1983, 115, 127-130.	1.5	0
301	Simple Model Calculations for Optical Constants of Copper. Physica Status Solidi (B): Basic Research, 1985, 130, 607-618.	1.5	0
302	Hall coefficient and thermoelectric power in the nearly-free-electron model. Physica Scripta, 1989, 39, 370-377.	2.5	0
303	Effect of strain on the Fermi surface of the noble metals. Physical Review B, 1993, 48, 1373-1377.	3.2	0
304	Electronic Properties of Graphite. Materials Science Forum, 1996, 223-224, 133-140.	0.3	0
305	CoPt System - A Calculation of Curie Temperature. Materials Science Forum, 1996, 223-224, 141-146.	0.3	0
306	An ab-initio study of CuInSe2 based ordered defect compounds. Materials Chemistry and Physics, 2015, 162, 372-379.	4.0	0

#	Article	IF	Citations
307	Influence of defect pairs in Ga-based ordered defect compounds: a hybrid density functional study. Canadian Journal of Physics, 2020, 98, 770-777.	1.1	0