

Ali Hussain Reshak

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Macroscopic Polarization Enhancement Promoting Photo- and Piezoelectric-Induced Charge Separation and Molecular Oxygen Activation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11860-11864.	7.2	850
2	Chlorine intercalation in graphitic carbon nitride for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 465-474.	10.8	328
3	Elastic, electronic and optical properties of ZnS, ZnSe and ZnTe under pressure. <i>Computational Materials Science</i> , 2006, 38, 29-38.	1.4	278
4	Photoelectrical properties and the electronic structure of $Tl_{1-x}In_xSn_xSe_2$ ($x = 0, 0.1, 0.2, 0.25$) single crystalline alloys. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6965.	1.3	167
5	Dispersion of linear and nonlinear optical susceptibilities and the hyperpolarizability of 3-methyl-4-phenyl-5-(2-pyridyl)-1,2,4-triazole. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2945-2952.	1.3	155
6	Ab initio study of TaON, an active photocatalyst under visible light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10558.	1.3	152
7	Linear, non-linear optical susceptibilities and the hyperpolarizability of the mixed crystals $Ag_{0.5}Pb_{1.75}Ge(S_{1-x}Se_x)_4$: experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18979.	1.3	150
8	$Fe_{2-x}MnSi_xGe_{1-x}$: influence thermoelectric properties of varying the germanium content. <i>RSC Advances</i> , 2014, 4, 39565-39571.	1.7	150
9	Thermoelectric properties for AA- and AB-stacking of a carbon nitride polymorph (C_{3N_4}). <i>RSC Advances</i> , 2014, 4, 63137-63142.	1.7	147
10	Ferroelectric polarization promoted bulk charge separation for highly efficient CO ₂ photoreduction of SrBi ₄ Ti ₄ O ₁₅ . <i>Nano Energy</i> , 2019, 56, 840-850.	8.2	144
11	FP-APW+lo calculations of the elastic properties in zinc-blende III-P compounds under pressure effects. <i>Computational Materials Science</i> , 2009, 45, 474-479.	1.4	137
12	Spin-polarized Second Harmonic Generation from the Antiferromagnetic CaCoSO Single Crystal. <i>Scientific Reports</i> , 2017, 7, 46415.	1.6	128
13	Investigation of the Linear and Nonlinear Optical Susceptibilities of $KTiOPO_4$ Single Crystals: Theory and Experiment. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16705-16712.	1.2	119
14	Thickness dependence of structural, electrical and optical behaviour of undoped ZnO thin films. <i>Physica B: Condensed Matter</i> , 2008, 403, 3326-3330.	1.3	116
15	Ab initio study of structural, electronic, elastic and high pressure properties of barium chalcogenides. <i>Computational Materials Science</i> , 2006, 38, 263-270.	1.4	106
16	Ab-initio calculations of Co-based diluted magnetic semiconductors $Cd_{1-x}Co_xX$ ($X=S, Se, Te$). <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3214-3222.	1.0	102
17	DFT calculation for elastic constants of orthorhombic structure within WIEN2K code: A new package (ortho-elastic). <i>Journal of Alloys and Compounds</i> , 2012, 543, 147-151.	2.8	100
18	Second order optical effects in Au nanoparticle-deposited ZnO nanocrystallite films. <i>Nanotechnology</i> , 2008, 19, 185709.	1.3	95

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19	Theoretical study of mechanical, electronic, chemical bonding and optical properties of Ti ₂ SnC, Zr ₂ SnC, Hf ₂ SnC and Nb ₂ SnC. Computational Materials Science, 2009, 47, 491-500.	1.4	95
20	Band energy and thermoelectricity of filled skutterudites LaFe ₄ Sb ₁₂ and CeFe ₄ Sb ₁₂ . Journal of Alloys and Compounds, 2007, 437, 39-46.	2.8	90
21	Ab-initio investigation of structural, electronic and optical properties for three phases of ZnO compound. Physica Status Solidi (B): Basic Research, 2007, 244, 3154-3167.	0.7	86
22	Variation of half metallicity and magnetism of Cd _{1-x} Cr _x Z (Z=S, Se and Te) DMS compounds on reducing dilute limit. Journal of Magnetism and Magnetic Materials, 2013, 331, 1-6.	1.0	86
23	Electronic and optical properties of the 1T phases of TiS ₂ , TiSe ₂ , and TiTe ₂ . Physical Review B, 2003, 68, .	1.1	82
24	Calculated optical properties of 2H α -MoS ₂ intercalated with lithium. Physical Review B, 2003, 68, .	1.1	80
25	First-principles calculations of structural, elastic and electronic properties of Ni ₂ MnZ (Z = Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn). Journal of Applied Physics, 2007, 102, 073507.	0.7	86
26	Exploration of the Electronic Structure of Monoclinic $\text{Eu}_2(\text{MoO}_4)_3$: DFT-Based Study and X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 10559-10568.	1.5	80
27	Thermoelectric properties of a single graphene sheet and its derivatives. Journal of Materials Chemistry C, 2014, 2, 2346.	2.7	79
28	Structural, mechanical and electronic properties of sodium based fluoroperovskites NaXF ₃ (X=Mg, Ca, Sr, Ba). Journal of Applied Physics, 2009, 105, 093507.	1.9	79
29	Electronic structure, magnetism and robust half-metallicity of new quaternary Heusler alloy FeCrMnSb. Journal of Alloys and Compounds, 2013, 580, 201-204.	2.8	74
30	Coupling ferroelectric polarization and anisotropic charge migration for enhanced CO ₂ photoreduction. Applied Catalysis B: Environmental, 2021, 284, 119709.	10.8	74
31	Full-potential calculations of structural, elastic and electronic properties of MgAl ₂ O ₄ and ZnAl ₂ O ₄ compounds. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 344, 271-279.	0.9	73
32	Structural and optical insights to enhance solar cell performance of CdS nanostructures. Energy Conversion and Management, 2014, 82, 238-243.	4.4	71
33	First-principles calculations of the elastic, electronic, and optical properties of the filled skutterudites CeFe ₄ P ₁₂ and ThFe ₄ P ₁₂ . Physical Review B, 2007, 75, .	1.1	66
34	First principles density functional calculations of half-metallic ferromagnetism in Zn _{1-x} Cr _x S and Cd _{1-x} Cr _x S. Current Opinion in Solid State and Materials Science, 2010, 14, 1-6.	5.6	65
35	Elastic, electronic and optical properties of cubic antiperovskites SbNCa ₃ and BiNCa ₃ . Computational Materials Science, 2009, 46, 1051-1057.	1.4	64
36	Full-potential calculation of the structural, elastic, electronic and magnetic properties of XFeO ₃ (X=Sr and Ba) perovskite. Physica B: Condensed Matter, 2010, 405, 3515-3519.	1.3	64

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37	Engineering oxygen vacancies towards self-activated BaLuAl _x Zn _{4-x} O ₇ (1-x)/2 photoluminescent materials: an experimental and theoretical analysis. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31188-31194.	1.3	64
38	An ab initio study of the electronic structure and optical properties of CdS _{1-x} Te alloys. <i>Solar Energy</i> , 2010, 84, 1979-1984.	2.9	63
39	Linear, nonlinear optical properties and birefringence of AgGaX ₂ (X=S, Se, Te) compounds. <i>Physica B: Condensed Matter</i> , 2005, 369, 243-253.	1.3	60
40	Visible-Light-Responsive Sill ^Å n-Structured Mixed-Cationic CdBiO ₂ Br Nanosheets: Layer Structure Design Promoting Charge Separation and Oxygen Activation Reactions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2661-2672.	1.5	60
41	Theoretical investigation of the electronic properties, and first and second harmonic generation for cadmium chalcogenide. <i>Journal of Chemical Physics</i> , 2006, 124, 104707.	1.2	56
42	Role of titanium valence states in optical and electronic features of PbO ^Å “Sb ₂ O ₃ “B ₂ O ₃ :TiO ₂ glass alloys. <i>Journal of Alloys and Compounds</i> , 2009, 482, 283-297.	2.8	56
43	Elastic properties and bonding of the AgGaSe ₂ chalcopyrite. <i>Physica B: Condensed Matter</i> , 2010, 405, 3658-3664.	1.3	56
44	Emergence of half metallicity in Cr-doped GaP dilute magnetic semiconductor compound within solubility limit. <i>Journal of Alloys and Compounds</i> , 2012, 536, 214-218.	2.8	56
45	Effect of U on the Electronic Properties of Neodymium Gallate (NdGaO ₃): Theoretical and Experimental Studies. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15237-15242.	1.2	53
46	The under-pressure behaviour of mechanical, electronic and optical properties of calcium titanate and its ground state thermoelectric response. <i>Philosophical Magazine</i> , 2017, 97, 1884-1901.	0.7	53
47	Theoretical investigation of the electronic and optical properties of ZrX ₂ (X=S, Se and Te). <i>Physica B: Condensed Matter</i> , 2004, 353, 230-237.	1.3	52
48	First-Principles Calculations of Structural, Elastic, Electronic, and Optical Properties of Perovskite-type KMgH ₃ Crystals: Novel Hydrogen Storage Material. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2836-2841.	1.2	52
49	Specific features in the band structure and linear and nonlinear optical susceptibilities of La ₂ CaB ₁₀ O ₁₉ crystals. <i>Physical Review B</i> , 2007, 75, .	1.1	51
50	FP-APW+lo study of the elastic, electronic and optical properties of the filled skutterudites CeFe ₄ As ₁₂ and CeFe ₄ Sb ₁₂ . <i>Current Opinion in Solid State and Materials Science</i> , 2009, 13, 105-111.	5.6	51
51	First-principle calculations of the linear and nonlinear optical response for GaX (X = As, Sb, P). <i>European Physical Journal B</i> , 2005, 47, 503-508.	0.6	50
52	First-principles study of spin-polarized electronic band structures in ferromagnetic Zn _{1-x} TM _x S (TM=Fe, Co and Ni). <i>Journal of Alloys and Compounds</i> , 2010, 508, 245-250.	2.8	50
53	Ab initio method of optical investigations of CdS _{1-x} Te alloys under quantum dots diameter effect. <i>Solar Energy</i> , 2015, 115, 33-39.	2.9	50
54	Two symmetric n-type interfaces SrTiO ₃ /LaAlO ₃ in perovskite: Electronic properties from density functional theory. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	50

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55	Mechanical and thermodynamical properties of hexagonal compounds at optimized lattice parameters from two-dimensional search of the equation of state. <i>RSC Advances</i> , 2014, 4, 57903-57915.	1.7	49
56	Insight into the physical properties of the inter-metallic titanium-based binary compounds. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	49
57	Linear and nonlinear optical susceptibilities for a novel borate oxide BaBiBO ₄ : Theory and experiment. <i>Journal of Solid State Chemistry</i> , 2008, 181, 789-795.	1.4	48
58	Structural, chemical bonding, electronic and magnetic properties of KMF ₃ (M = Mn, Fe, Co, Ni) compounds. <i>Computational Materials Science</i> , 2014, 85, 402-408.	1.4	48
59	Pressure-dependent elastomechanical stability and thermoelectric properties of MYbF ₃ (M = Rb, Cs) materials for renewable energy. <i>International Journal of Energy Research</i> , 2021, 45, 8711-8723.	2.2	48
60	Electronic, linear, and nonlinear optical properties of III-V indium compound semiconductors. <i>Journal of Chemical Physics</i> , 2006, 125, 034710.	1.2	47
61	Effect of increasing tellurium content on the electronic and optical properties of cadmium selenide telluride alloys CdSe _{1-x} Te _x : An ab initio study. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6737-6750.	2.8	47
62	Electronic spectral parameters and IR nonlinear optical features of novel Ag _{0.5} Pb _{1.75} Ge ₄ crystal. <i>Journal of Crystal Growth</i> , 2012, 354, 142-146.	0.7	47
63	Genesis of magnetism in graphene/MoS ₂ van der Waals heterostructures via interface engineering using Cr-adsorption. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157776.	2.8	47
64	Electronic Structure of Quaternary Chalcogenide Ag ₂ In ₂ Ge ₆ (Si) ₆ Single Crystals and the Influence of Replacing Ge by Si: Experimental X-Ray Photoelectron Spectroscopy and X-Ray Diffraction Studies and Theoretical Calculations. <i>Science of Advanced Materials</i> , 2013, 5, 316-327.	0.1	46
65	Thermoelectric properties of Nowotny-type NaZnX (X = P, As and Sb) compounds. <i>Computational Materials Science</i> , 2015, 96, 90-95.	1.4	46
66	Co ₂ YZ (Y= Cr, Nb, Ta, V and Z= Al, Ga) Heusler alloys under the effect of pressure and strain. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 104, 107841.	1.3	46
67	Band structure and optical response of 2H-MoX ₂ compounds (X=S, Se, and Te). <i>Physical Review B</i> , 2005, 71, .	1.1	45
68	Ab initio calculations of the electronic, linear and nonlinear optical properties of zinc chalcogenides. <i>Physica B: Condensed Matter</i> , 2007, 388, 34-42.	1.3	45
69	Spin-Polarized Structural, Electronic, and Magnetic Properties of Diluted Magnetic Semiconductors Cd _{1-x} Mn _x S and Cd _{1-x} Mn _x Se in Zinc Blende Phase. <i>Journal of Physical Chemistry A</i> , 2009, 113, 6022-6027.	1.1	45
70	Dispersion of linear and non-linear optical susceptibilities for amino acid 2-aminopropanoic CH ₃ CH(NH ₂)COOH single crystals: experimental and theoretical investigations. <i>Journal of Materials Chemistry</i> , 2011, 21, 17219.	6.7	45
71	Density functional study of optical properties of beryllium chalcogenides compounds in nickel arsenide B8 structure. <i>Physica B: Condensed Matter</i> , 2012, 407, 286-296.	1.3	45
72	Theoretical investigations of NiTiSn and CoVSn compounds. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 975-981.	1.9	44

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73	Accounting oxygen vacancy for half-metallicity and magnetism in Fe-doped CeO ₂ dilute magnetic oxide. Computational Materials Science, 2013, 74, 114-118.	1.4	44
74	First and second harmonic generation of the optical susceptibilities for the non-centro-symmetric orthorhombic AgCd ₂ GaS ₄ . Journal of Physics Condensed Matter, 2008, 20, 325234.	0.7	43
75	Acentric Nonlinear Optical 2,4-Dihydroxyl Hydrazone Isomorphous Crystals with Large Linear, Nonlinear Optical Susceptibilities and Hyperpolarizability. Journal of Physical Chemistry B, 2012, 116, 4677-4683.	1.2	43
76	Specific features of electronic structures and optical susceptibilities of molybdenum oxide. RSC Advances, 2015, 5, 22044-22052.	1.7	43
77	Active photocatalytic water splitting solar-to-hydrogen energy conversion: Chalcogenide photocatalyst Ba ₂ ZnSe ₃ under visible irradiation. Applied Catalysis B: Environmental, 2018, 221, 17-26.	10.8	42
78	Electro-structural correlations, elastic and optical properties among the nanolaminated ternary carbides Zr ₂ AC. Solid State Sciences, 2010, 12, 887-898.	1.5	41
79	GGA+U studies of the cubic perovskites BaMO ₃ (M=Pr, Th and U). Physica B: Condensed Matter, 2013, 410, 217-221.	1.3	41
80	Several features of nonlinear optical susceptibilities of LiGaX ₂ (X=S, Se) ternary compounds. Journal of Alloys and Compounds, 2009, 473, 20-24.	2.8	40
81	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.	1.2	40
82	Quantum dots in photocatalytic applications: efficiently enhancing visible light photocatalytic activity by integrating CdO quantum dots as sensitizers. Physical Chemistry Chemical Physics, 2017, 19, 24915-24927.	1.3	40
83	Ab-initio study of the structural, linear and nonlinear optical properties of CdAl ₂ Se ₄ defect-chalcopyrite. Journal of Solid State Chemistry, 2010, 183, 46-51.	1.4	39
84	Linear and Nonlinear Optical Susceptibilities and the Hyperpolarizability of Borate LiBaB ₉ O ₁₅ Single-Crystal: Theory and Experiment. Journal of Physical Chemistry B, 2013, 117, 14141-14150.	1.2	39
85	Strain effect on the electronic and optical properties of 2D Tetrahexcarbon: a DFT-based study. Indian Journal of Physics, 2021, 95, 2365-2373.	0.9	39
86	Structural, electronic, elastic, and magnetic properties of NaQF ₃ (Q=Ag, Pb). Journal of Physics: Condensed Matter, 2022, 46, 2446-2453.	2.2	39
87	Influence of Replacing Si by Ge in the Chalcogenide Quaternary Sulfides Ag ₂ In ₂ Si(Ge) ₆ on the Chemical Bonding, Linear and Nonlinear Optical Susceptibilities, and Hyperpolarizability. Journal of Physical Chemistry B, 2013, 117, 2545-2553.	1.2	38
88	Theoretical investigation of the structural, electronic, magnetic and elastic properties of binary cubic C15-Laves phases TbX ₂ (X=Co and Fe). Journal of Alloys and Compounds, 2016, 689, 885-893.	2.8	38
89	Electronic structure and optical properties of 1T-TiS ₂ and lithium intercalated 1T-TiS ₂ for lithium batteries. Journal of Chemical Physics, 2008, 129, 074706.	1.2	37
90	Calculation of the lattice constant of hexagonal compounds with two dimensional search of equation of state and with semilocal functionals a new package (2D-optimize). Journal of Alloys and Compounds, 2013, 555, 362-366.	2.8	37

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91	Structural, elastic, electronic, magnetic, optical, and thermoelectric properties of the diamond-like quaternary semiconductor CuMn ₂ InSe ₄ . Journal of Superconductivity and Novel Magnetism, 2020, 33, 1091-1102.	0.8	37
92	Ab-initio calculation of structural, electronic, and optical characterizations of the intermetallic trialuminides ScAl ₃ compound. Journal of Solid State Chemistry, 2010, 183, 1290-1296.	1.4	36
93	Optical Spectra and Band Structure of Ag _x Ga _x Ge _{1-x} Se ₂ (<i>x</i> = 0.333). Journal of Applied Physics, 2014, 116, 15220-15231.	1.2	36
94	Adsorbing H ₂ S onto a single graphene sheet: A possible gas sensor. Journal of Applied Physics, 2014, 116, .	1.1	36
95	Photoinduced effects in TiO ₂ nanocrystalline films with different morphology. Journal of Alloys and Compounds, 2010, 508, 599-605.	2.8	35
96	Evidence of Coulomb correction and spin-orbit coupling in rare-earth dioxides CeO ₂ , PrO ₂ and TbO ₂ : An ab initio study. Journal of Magnetism and Magnetic Materials, 2012, 324, 1397-1405.	1.0	35
97	Comparative study of Fe doped ZnO based diluted and condensed magnetic semiconductors in wurtzite and zinc-blende structures by first-principles calculations. Materials Science in Semiconductor Processing, 2016, 43, 123-128.	1.9	35
98	Novel borate CsZn ₂ B ₃ O ₇ single crystal with large efficient second harmonic generation in deep-ultraviolet spectral range. Journal of Alloys and Compounds, 2017, 722, 438-444.	2.8	35
99	Electronic, optical and bonding properties of MgYZ ₂ (Y=Si, Ge; Z=N, P) chalcopyrites from first principles. Materials Science in Semiconductor Processing, 2014, 26, 79-86.	1.9	34
100	Comparative first-principles calculations of the electronic, optical, elastic and thermodynamic properties of XCaF ₃ (X=K, Rb, Cs) cubic perovskites. Materials Chemistry and Physics, 2017, 188, 39-48.	2.0	34
101	First-Principles Study on the Structural, Electronic, Magnetic and Thermodynamic Properties of Full Heusler Alloys Co ₂ VZ (Z=Al, Ga). Journal of Electronic Materials, 2017, 46, 130-142.	1.0	34
102	Full-potential calculations of the electronic and optical properties for 1T and 2H phases of TaS ₂ and TaSe ₂ . Physica B: Condensed Matter, 2005, 358, 158-165.	1.3	33
103	Photoinduced effects in L-alanine crystals. Materials Letters, 2010, 64, 1957-1959.	1.3	33
104	Bismuth-containing semiconductors: Linear and nonlinear optical susceptibilities of GaAs _{1-x} Bi _x alloys. Journal of Alloys and Compounds, 2011, 509, 9685-9691.	2.8	33
105	First-principles study of structural stabilities, elastic and electronic properties of transition metal monocarbides (TMCs) and mononitrides (TMNs). Materials Chemistry and Physics, 2013, 143, 93-108.	2.0	33
106	External temperature and pressure effects on thermodynamic properties and mechanical stability of yttrium chalcogenides YX (X=S, Se and Te). Physica B: Condensed Matter, 2013, 428, 78-88.	1.3	33
107	Third harmonic generation process in Al doped ZnO thin films. Journal of Alloys and Compounds, 2014, 584, 7-12.	2.8	33
108	Synthesis, Structural, Thermal, and Electronic Properties of Palmierite-Related Double Molybdate Cs ₂ Pb(MoO ₄) ₂ . Inorganic Chemistry, 2017, 56, 3276-3286.	1.9	33

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109	Insight into crystal-structure dependent charge separation and photo-redox catalysis: A combined experimental and theoretical study on Bi(IO ₃) ₃ and BiOIO ₃ . Applied Surface Science, 2018, 458, 129-138.	3.1	33
110	Investigation of the electronic properties, first and second harmonic generation for AXIII BXV zinc-blende semiconductors. Physica B: Condensed Matter, 2007, 395, 143-150.	1.3	32
111	Electronic properties of chalcopyrite CuAlX ₂ (X=S, Se, Te) compounds. Solid State Communications, 2008, 145, 571-576.	0.9	32
112	FP-APW+lo calculations of the electronic and optical properties of alkali metal sulfides under pressure. Journal of Physics Condensed Matter, 2009, 21, 095404.	0.7	32
113	Calculated optical properties of GaX (X=P, As, Sb) under hydrostatic pressure. Applied Physics A: Materials Science and Processing, 2011, 104, 1159-1167.	1.1	32
114	Electronic band structure and specific features of AA- and AB-stacking of carbon nitride (C ₃ N ₄): DFT calculation. RSC Advances, 2014, 4, 6957.	1.7	32
115	Alkali-metal/alkaline-earth-metal fluorine beryllium borate NaSr ₃ Be ₃ B ₃ O ₉ F ₄ with large nonlinear optical properties in the deep-ultraviolet region. Journal of Applied Physics, 2015, 117, 085703.	1.1	32
116	Electronic and optical properties of pentagonal-B ₂ C monolayer: A first-principles calculation. International Journal of Modern Physics B, 2017, 31, 1750044.	1.0	32
117	Ab initio calculations of the electronic and optical properties of 1T-HfX ₂ compounds. Physica B: Condensed Matter, 2005, 363, 25-31.	1.3	31
118	Structural, electronic and optical properties of fluorite-type compounds. European Physical Journal B, 2005, 47, 63-70.	0.6	31
119	First-principles study of the optical properties of PbFX (X = Cl, Br, I) compounds in its matlockite-type structure. European Physical Journal B, 2007, 60, 463-468.	0.6	31
120	Experimental and theoretical investigations of the first and second order optical susceptibilities of BiB ₃ O ₆ single crystal. Applied Physics A: Materials Science and Processing, 2008, 91, 451-457.	1.1	31
121	X-ray diffraction and optical properties of a noncentrosymmetric borate CaBiGa ₂ O ₇ . Journal of Chemical Physics, 2008, 129, 204111.	1.2	31
122	Full potential study of the elastic, electronic, and optical properties of spinels MgIn ₂ S ₄ and CdIn ₂ S ₄ under pressure effect. Journal of Solid State Chemistry, 2010, 183, 2818-2825.	1.4	31
123	Dispersion of Linear, Nonlinear Optical Susceptibilities and Hyperpolarizability of C ₁₁ H ₈ N ₂ O (<i>ortho</i>-Methoxydicyanovinylbenzene) Crystals. Journal of Physical Chemistry B, 2012, 116, 13338-13343.	1.2	31
124	Structural and electronic properties of GaN x As ^{1-x} alloys. Applied Physics A: Materials Science and Processing, 2012, 106, 687-696.	1.1	31
125	Analytical investigations of CdS nanostructures for optoelectronic applications. Optik, 2015, 126, 5109-5114.	1.4	31
126	The influence of oxygen vacancies on the linear and nonlinear optical properties of Pb ₇ O(OH) ₃ (CO ₃) ₃ (BO ₃) ₃ . RSC Advances, 2017, 7, 14752-14760.	1.7	31

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127	Noncentrosymmetric Sulfide Oxide $MZnSO$ ($M = Ca$ or Sr) with Strongly Polar Structure as Novel Nonlinear Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27172-27180.	1.5	31
128	Dielectric absorption correlated to ferromagnetic behavior in (Cr, Ni)-codoped $4H\alpha\text{-SiC}$ for microwave applications. <i>Journal of Molecular Structure</i> , 2022, 1248, 131462.	1.8	31
129	Effect of cation substitution on electronic band structure of $ZnGeAs_2$ pnictides: A mBJLDA approach. <i>Journal of Alloys and Compounds</i> , 2012, 518, 74-79.	2.8	30
130	Electronic structure and optical properties of $In_2X_2O_7$ ($X=Si, Ge, Sn$) from direct to indirect gap: An ab initio study. <i>Computational Materials Science</i> , 2013, 78, 91-97.	1.4	30
131	The density functional study of electronic structure, electronic charge density, linear and nonlinear optical properties of single crystal $\alpha\text{-LiAlTe}_2$. <i>Journal of Alloys and Compounds</i> , 2014, 592, 92-99.	2.8	30
132	Linear and nonlinear optical properties for AA and AB stacking of carbon nitride polymorph (C_3N_4). <i>RSC Advances</i> , 2014, 4, 11967-11974.	1.7	30
133	Quest for magnetism in graphene via Cr- and Mo-doping: A DFT approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 78, 35-40.	1.3	30
134	Sulfide oxide $XZnSO$ ($X = Ca$ or Sr) as novel active photocatalytic water splitting solar-to-hydrogen energy conversion. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 273-283.	10.8	30
135	Prediction study of the structural and elastic properties for the cubic skutterudites $LaFe_4Al_{12}$ ($A\hat{=} \hat{A}P$). <i>Tj ETQq1 1 0,784314,rgBT /O</i>	0.9	29
136	Prediction study of the structural, elastic and high pressure properties of Yttrium chalcogenide. <i>Computational Materials Science</i> , 2010, 49, 372-377.	1.4	29
137	FP-LAPW investigation of structural, electronic, linear and nonlinear optical properties of $ZnIn_2Te_4$ defect-chalcopyrite. <i>Computational Materials Science</i> , 2010, 50, 651-655.	1.4	29
138	Structural, Elastic, Electronic and Optical Properties of Cu_3TMSe_4 ($TM = V$). <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i> 5, 97-106.	0.1	29
139	Investigation of electronic structure and optical properties of $MgAl_2O_4$: DFT approach. <i>Optical Materials</i> , 2014, 37, 322-326.	1.7	29
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