

Iftikhar Ahmad

List of Publications by Year in descending order

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236
papers

5,730
citations

94269

37
h-index

118652

62
g-index

241
all docs

241
docs citations

241
times ranked

3845
citing authors

#	ARTICLE	IF	CITATIONS
19	Opto-electronic response of spinels MgAl ₂ O ₄ and MgGa ₂ O ₄ through modified Becke-Johnson exchange potential. <i>Physica B: Condensed Matter</i> , 2012, 407, 2588-2592.	1.3	57
20	Van der Waals heterostructures of P, BSe, and SiC monolayers. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	57
21	Electronic structure of cubic perovskite SnTaO ₃ . <i>Intermetallics</i> , 2012, 31, 287-291.	1.8	55
22	Electronic Band Structures of the Highly Desirable III-V Semiconductors: TB-mBJ DFT Studies. <i>Journal of Electronic Materials</i> , 2016, 45, 3314-3323.	1.0	54
23	Conversion of Direct to Indirect Bandgap and Optical Response of B Substituted InN for Novel Optical Devices Applications. <i>Journal of Lightwave Technology</i> , 2010, 28, 223-227.	2.7	53
24	Theoretical studies of structural and magnetic properties of cubic perovskites PrCoO ₃ and NdCoO ₃ . <i>Physica B: Condensed Matter</i> , 2011, 406, 3800-3804.	1.3	48
25	Shift of indirect to direct bandgap and optical response of LaAlO ₃ under pressure. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	48
26	Conversion of optically isotropic to anisotropic CdS _x Se _{1-x} (0 ≤ x ≤ 1) alloy with S concentration. <i>Computational Materials Science</i> , 2013, 77, 145-152.	1.4	48
27	Structural and Optoelectronic Properties of Cubic CsPbF ₃ for Novel Applications. <i>Chinese Physics Letters</i> , 2011, 28, 117803.	1.3	45
28	First principle study of cubic perovskites: AgTF ₃ (T=Mg, Zn). <i>Physica B: Condensed Matter</i> , 2011, 406, 4584-4589.	1.3	45
29	Effect of phase transition on the optoelectronic properties of Zn _{1-x} Mg _x S. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	45
30	Structural and optoelectronic properties of the zinc titanate perovskite and spinel by modified Becke-Johnson potential. <i>Physica B: Condensed Matter</i> , 2013, 420, 54-57.	1.3	44
31	Cr-Doped III-V Nitrides: Potential Candidates for Spintronics. <i>Journal of Electronic Materials</i> , 2011, 40, 1428-1436.	1.0	43
32	Metal mono-chalcogenides ZnX and CdX (X = S, Se and Te) monolayers: Chemical bond and optical interband transitions by first principles calculations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 663-670.	0.9	43
33	Electronic and optical properties of mixed Be-chalcogenides. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 181-188.	1.9	42
34	GGA+U studies of the cubic perovskites BaMO ₃ (M=Pr, Th and U). <i>Physica B: Condensed Matter</i> , 2013, 410, 217-221.	1.3	41
35	Gray-box modeling for prediction and control of molten steel temperature in tundish. <i>Journal of Process Control</i> , 2014, 24, 375-382.	1.7	40
36	Antiperovskite compounds SbNSr ₃ and BiNSr ₃ : Potential candidates for thermoelectric renewable energy generators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 206-210.	0.9	40

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37	First-principles study of BiFeO ₃ and BaTiO ₃ in tetragonal structure. International Journal of Modern Physics B, 2019, 33, 1950231.	1.0	40
38	Theoretical studies of the paramagnetic perovskites MTaO ₃ (M=Ca, Sr and Ba). Materials Chemistry and Physics, 2015, 162, 308-315.	2.0	38
39	Bandgap investigations and the effect of the In and Al concentration on the optical properties of In _x Al _{1-x} N. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2181.	0.9	37
40	Robust half-metallicity in Ga _{1-x} MnxP and Ga _{1-x} MnxAs. Computational Materials Science, 2013, 68, 55-60.	1.4	37
41	van der Waals heterostructures based on MSSe (M = Mo, W) and graphene-like GaN: enhanced optoelectronic and photocatalytic properties for water splitting. Physical Chemistry Chemical Physics, 2020, 22, 20704-20711.	1.3	37
42	Theoretical investigation of half metallicity in Fe/Co/Ni doped ZnSe material systems. Journal of Applied Physics, 2009, 106, .	1.1	36
43	Theoretical studies of strongly correlated rare-earth intermetallics RIn ₃ and RSn ₃ (R=Sm, Eu, and Gd). Journal of Applied Physics, 2014, 116, .	1.1	36
44	Theoretical investigation of electronic structure and thermoelectric properties of MX ₂ (M=Zr, Hf; X=O, S, Se, Te). Journal of Applied Physics, 2010, 107, 104301.	1.9	36
45	Shift of indirect to direct bandgap in going from K to Cs in MCaF ₃ (M=K, Rb, Cs). Solid State Sciences, 2013, 16, 152-157.	1.5	35
46	Bandgap engineering of Cd _{1-x} SrxO. Physica B: Condensed Matter, 2011, 406, 2509-2514.	1.3	33
47	Elastic and Optoelectronic Properties of Cs ₂ NaMCl ₆ (M = In, Tl, Sb, Bi). Journal of Electronic Materials, 2021, 50, 456-466.	1.0	33
48	Structural, electronic and optical properties of CaxCd _{1-x} O and its conversion from semimetal to wide bandgap semiconductor. Computational Materials Science, 2012, 58, 71-76.	1.4	32
49	Electronic Properties of Antiperovskite Materials from State-of-the-Art Density Functional Theory. Journal of Chemistry, 2015, 2015, 1-11.	0.9	32
50	Structural and optoelectronic properties of Mg substituted ZTe (Z=Zn, Cd and Hg). Journal of Physics and Chemistry of Solids, 2015, 83, 75-84.	1.9	32
51	Elastic and mechanical properties of lanthanide monoxides. Journal of Alloys and Compounds, 2015, 618, 292-298.	2.8	32
52	Structural, microwave permittivity, and complex impedance studies of cation (Cr, Bi, Al, In) substituted SrNi-X hexagonal nano-sized ferrites. Ceramics International, 2020, 46, 1907-1915.	2.3	32
53	Removal of azo dye from aqueous solution by a low-cost activated carbon prepared from coal: adsorption kinetics, isotherms study, and DFT simulation. Environmental Science and Pollution Research, 2021, 28, 10234-10247.	2.7	30
54	Silicon carbide and III-Nitrides nanosheets: Promising anodes for Mg-ion batteries. Materials Chemistry and Physics, 2021, 257, 123785.	2.0	29

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55	Gray-box Soft Sensors in Process Industry: Current Practice, and Future Prospects in Era of Big Data. Processes, 2020, 8, 243.	1.3	28
56	Influence of electric field on CO ₂ removal by P-doped C ₆₀ -fullerene: A DFT study. Chemical Physics Letters, 2020, 742, 137155.	1.2	28
57	Transition from optically inactive to active Mg-chalcogenides: A first principle study. Computational Materials Science, 2012, 61, 278-282.	1.4	27
58	Investigation of half metallicity in Fe doped CdSe and Co doped CdSe materials. Current Applied Physics, 2012, 12, 184-187.	1.1	27
59	Band Profile Comparison of the Cubic Perovskites CaCoO ₃ and SrCoO ₃ . Journal of Electronic Materials, 2013, 42, 438-444.	1.0	27
60	Structural and thermoelectric properties of pure and La, Y doped HoMnO ₃ for their use as alternative energy materials. Computer Physics Communications, 2015, 187, 1-7.	3.0	27
61	Thermoelectric and phononic properties of (Gd, Tb) MnO ₃ compounds: DFT calculations. Journal of Alloys and Compounds, 2017, 690, 942-952.	2.8	27
62	Electronic Structure of Crystalline Buckyballs: fcc-C ₆₀ . Journal of Electronic Materials, 2016, 45, 339-348.	1.0	26
63	Effects of cobalt substitution on the physical properties of the perovskite strontium ferrite. Materials Chemistry and Physics, 2017, 196, 222-228.	2.0	26
64	Linear and nonlinear optical response of Mg _x Zn _{1-x} O: A density functional study. Physica B: Condensed Matter, 2011, 406, 2632-2636.	1.3	25
65	The investigation of spherical effects on the photodetached electron spectra. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 195004.	0.6	25
66	Theoretical studies of the band structure and optoelectronic properties of ZnO _x S _{1-x} . International Journal of Quantum Chemistry, 2013, 113, 1285-1292.	1.0	25
67	Density functional theory study of emerging pollutants removal from water by covalent triazine based framework. Journal of Molecular Liquids, 2020, 309, 113008.	2.3	25
68	Generalized gradient calculations of structural, electronic and optical properties of Mg _x Cd _{1-x} O oxides. Journal of Alloys and Compounds, 2010, 493, 212-218.	2.8	24
69	Structural, optical, and electrical characteristics of AlN:Ho thin films irradiated with 700 keV protons. Applied Surface Science, 2015, 357, 179-183.	3.1	24
70	Influence of Cr and Zn substitution on structural, magnetic and dielectric properties of Sr _{2-x} Zn _x Ni ₂ Fe _{28-y} Cr _y O ₄₆ X-type hexagonal ferrite. Solid State Sciences, 2020, 100, 106090.	1.5	24
71	First-Principles Study of Perovskite Molybdates AMoO ₃ (A=Ca, Sr, Ba). Journal of Electronic Materials, 2019, 48, 1730-1739.	1.0	23
72	Theoretical studies of the osmium based perovskites AOsO ₃ (A=Ca, Sr and Ba). Journal of Physics and Chemistry of Solids, 2015, 86, 114-121.	1.9	22

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91	Structural features and dielectric behavior of Al substituted $\text{Cu}_{0.7}\text{Ni}_{0.3}\text{Fe}_2\text{O}_4$ ferrites. <i>Materials Chemistry and Physics</i> , 2021, 273, 125028.	2.0	17
92	Optoelectronic properties of $\text{Li}_x\text{A}_x\text{NbO}_3$ (A=Na, K, Rb, Cs, Fr) crystals. <i>Physica B: Condensed Matter</i> , 2012, 407, 368-377.	1.3	16
93	Structural and magnetic properties of TlTF_3 (T=Fe, Co and Ni) by hybrid functional theory. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 388, 143-149.	1.0	16
94	Temporal characteristics of aerosol optical properties over the glacier region of northern Pakistan. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 186, 35-46.	0.6	16
95	Theoretical Investigations of Quaternary Semiconductors CsInCdTe_3 (Ln=La, Pr, Nd and Sm). <i>Journal of Electronic Materials</i> , 2020, 49, 3357-3366.	1.0	16
96	Theoretical investigation of half-metallicity in Co/Ni substituted AlN. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 882-888.	1.0	15
97	Robust Half-Metallicity and Magnetic Properties of Cubic Perovskite CaFeO_3 . <i>Chinese Physics Letters</i> , 2013, 30, 047504.	1.3	15
98	First principle optoelectronic studies of visible light sensitive CZT. <i>Superlattices and Microstructures</i> , 2013, 63, 91-99.	1.4	15
99	Comparison of the electronic band profiles and magneto-optic properties of cubic and orthorhombic SrTbO_3 . <i>Physica B: Condensed Matter</i> , 2013, 423, 16-20.	1.3	15
100	Control of Group Velocity via Spontaneous Generated Coherence and Kerr Nonlinearity. <i>Communications in Theoretical Physics</i> , 2014, 62, 410-416.	1.1	15
101	Ab initio studies of electric field gradients and magnetic properties of uranium dipnictides. <i>RSC Advances</i> , 2015, 5, 37592-37602.	1.7	15
102	Role of nitrogen vacancies in cerium doped aluminum nitride. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 412, 49-54.	1.0	15
103	Strain engineering of Janus ZrSSe and HfSSe monolayers and $\text{ZrSSe}/\text{HfSSe}$ van der Waals heterostructure. <i>Chemical Physics Letters</i> , 2021, 776, 138689.	1.2	15
104	Electronic structure, optical and magnetic properties of double Perovskites La_2MTiO_6 (M = Co, Ni, Cu) <small>Tj ETQq0 0 0 rgBT /Overlock 10 T</small>	2.0	15
105	Penta graphene: a superior anode material for Mg-ion batteries with high specific theoretical capacity. <i>Ionics</i> , 2021, 27, 4819-4828.	1.2	15
106	Photodetachment of H^+ near a Hard Spherical Surface. <i>Chinese Physics Letters</i> , 2012, 29, 013202.	1.3	14
107	High-Performance Prediction of Molten Steel Temperature in Tundish through Gray-Box Model. <i>ISIJ International</i> , 2013, 53, 76-80.	0.6	14
108	Magneto-electronic studies of anti-perovskites NiNMn_3 and ZnNMn_3 . <i>Computational Materials Science</i> , 2014, 81, 141-145.	1.4	14

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109	Effects of dangling bonds and diameter on the electronic and optical properties of InAs nanowires. RSC Advances, 2015, 5, 23320-23325.	1.7	14
110	Pressure dependency of localization degree in heavy fermion CeIn3: A density functional theory analysis. Scientific Reports, 2016, 6, 31734.	1.6	14
111	Van der Waals heterostructures of blue phosphorene and scandium-based MXenes monolayers. Journal of Applied Physics, 2019, 126, .	1.1	14
112	Effects of A-Site cation on the Physical Properties of Quaternary Perovskites AMn3V4O12 (A= Ca, Ce) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	2.8	14
113	Black Carbon aerosol characteristics and radiative forcing over the high altitude glacier region of Himalaya-Karakorum-Hindukush. Atmospheric Environment, 2020, 238, 117711.	1.9	14
114	Effect of size reduction on the electronic and ferromagnetic properties of the In2O3 nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	13
115	Prediction of Molten Steel Temperature in Steel Making Process with Uncertainty by Integrating Gray-Box Model and Bootstrap Filter. Journal of Chemical Engineering of Japan, 2014, 47, 827-834.	0.3	13
116	Optical properties of ideal Al_2O_3 and with oxygen point defects: an ab initio study. RSC Advances, 2015, 5, 55088-55099.	1.7	13
117	Energy level splitting and luminescence enhancement in AlN:Er by an external magnetic field. Optical Materials, 2015, 46, 601-604.	1.7	13
118	Electronic band structures of binary skutterudites. Journal of Alloys and Compounds, 2015, 647, 364-369.	2.8	13
119	First-principles study of structural, electronic, magnetic and thermoelectric properties of the cubic mono-pnictides of thorium Th Pn (Pn = Sb and Bi). Computational Condensed Matter, 2017, 13, 111-119.	0.9	13
120	First principle studies of electronic and magnetic properties of Lanthanide-Gold (RAu) binary intermetallics. Journal of Magnetism and Magnetic Materials, 2017, 422, 458-463.	1.0	13
121	Dimensions and Analysis of Uncertainty in Industrial Modeling Process. Journal of Chemical Engineering of Japan, 2018, 51, 533-543.	0.3	13
122	Intriguing electronic and optical properties of M2CX2 (M=Mo, W; X=O, F) MXenes and their van der Waals heterostructures. Chemical Physics Letters, 2019, 731, 136614.	1.2	13
123	Nanocrystals formation and intense green emission in thermally annealed AlN:Ho films for microlaser cavities and photonic applications. Journal of Applied Physics, 2010, 108, .	1.1	12
124	Quasiparticle optoelectronic properties of pure and doped indium oxide. Optical Materials, 2012, 34, 1406-1414.	1.7	12
125	Deep ultraviolet photopumped stimulated emission from partially relaxed AlGaN multiple quantum well heterostructures grown on sapphire substrates. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, .	0.6	12
126	Control of slow-to-fast light and single-to-double optomechanically induced transparency in a compound resonator system: A theoretical approach. Europhysics Letters, 2017, 120, 24001.	0.7	12

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127	Electronic Structure, Mechanical and Magnetic Properties of the Quaternary Perovskites $\text{CaA}_3\text{V}_4\text{O}_{12}$ ($\text{A} = \text{Mn, Fe, Co, Ni}$ and Cu). <i>Journal of Electronic Materials</i> , 2020, 49, 1230-1242.	1.0	12
128	Ultraviolet spectroscopy of Pr^{+3} and its use in making ultraviolet filters. <i>Current Applied Physics</i> , 2009, 9, 234-237.	1.1	11
129	Electron penetration depth in amorphous AlN exploiting the luminescence of AlN:Tm/AlN:Ho bilayers. <i>Current Applied Physics</i> , 2009, 9, 417-421.	1.1	11
130	Pressure driven spin crossover and isostructural phase transition in LaFeO_3 . <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	11
131	Electronic band structure of $\text{LaCoO}_3/\text{Y/Mn}$ compounds. <i>Physica B: Condensed Matter</i> , 2013, 410, 112-119.	1.3	11
132	Mechanical properties and variation in SOC going from La to Nd in intermetallic RIn_3 and R_2Sn_3 ($\text{R} = \text{La, Y, Pr, Nd}$). <i>Journal of Applied Physics</i> , 2011, 110, 093505.	1.7	11
133	Comparative study of thermoelectric properties of Co based filled antimonide skutterudites with and without SOC effect. <i>Computational Materials Science</i> , 2017, 131, 308-314.	1.4	11
134	^{125}Te NMR shielding and optoelectronic spectra in XTe_3O_8 ($\text{X} = \text{Ti, Zr, Sn}$ and Hf) compounds: Ab initio calculations. <i>Journal of Molecular Structure</i> , 2017, 1148, 223-230.	1.8	11
135	First principle studies of structural, magnetic and elastic properties of orthorhombic rare-earth diariides intermetallics RAu_2 ($\text{R} = \text{La, Ce, Pr}$ and Eu). <i>Materials Chemistry and Physics</i> , 2018, 212, 44-50.	2.0	11
136	Theoretical studies of CsSnX_3 ($\text{X} = \text{Cl, Br}$ and I) for energy storage and hybrid solar cell applications. <i>Materials Today Communications</i> , 2020, 25, 101517.	0.9	11
137	Spin-orbit coupling effect on the optoelectronic and thermoelectric properties of the perovskites A_3SnO ($\text{A} = \text{Ca, Sr}$ and Ba). <i>Materials Science in Semiconductor Processing</i> , 2021, 132, 105905.	1.9	11
138	Spectroscopy of gadolinium ion and disadvantages of gadolinium impurity in tissue compensators and collimators, used in radiation treatment planning. <i>Spectroscopy</i> , 2007, 21, 205-210.	0.8	10
139	Interferences in photodetachment of a triatomic negative ion. <i>Applied Physics Letters</i> , 2009, 94, 041125.	1.5	10
140	Superluminal propagation in a poly-chromatically driven gain assisted four-level N-type atomic system. <i>Physica Scripta</i> , 2013, 88, 045402.	1.2	10
141	Density functional studies of magneto-optic properties of CdCoS . <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 351, 60-64.	1.0	10
142	The effect of Kerr nonlinearity and Doppler broadening on slow light propagation. <i>Laser Physics</i> , 2014, 24, 025201.	0.6	10
143	Electronic structure of the LiAA_2O_6 ($\text{A} = \text{Nb, Ta}$, and $\text{A} = \text{W, Mo}$) ceramics by modified Becke-Johnson potential. <i>Optical Materials</i> , 2016, 58, 466-475.	1.7	10
144	^{127}I NMR calculations in binary metal iodides by PBE-GGA, YS-PBE0 and mBJ exchange correlation potentials. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 82-83, 10-15.	1.5	10

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145	Effects of chemical potential on the thermoelectric performance of alkaline-earth based skutterudites (AFe ₄ Sb ₁₂ , A = Ca, Sr and Ba). <i>Journal of Alloys and Compounds</i> , 2017, 694, 253-260.	2.8	10
146	DFT study on thermo-elastic properties of Ru ₂ FeZ (Z = Si, Ge, Sn) Heusler alloys. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850045.	1.0	10
147	Spatio-temporal variations of absorbing aerosols and their relationship with meteorology over four high altitude sites in glaciated region of Pakistan. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 190, 84-95.	0.6	10
148	First-principles investigation on electronic structure, magnetic states and optical properties of Mn-doped SnS ₂ monolayer via strain engineering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 134, 114842.	1.3	10
149	Classification of partially reflecting surfaces using photodetached electron spectrum. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 4067-4071.	1.0	9
150	Robust half-metallicity of AlCoN and AlNiN. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 2668-2674.	1.0	9
151	Control of Wave Propagation and Effect of Kerr Nonlinearity on Group Index. <i>Communications in Theoretical Physics</i> , 2013, 60, 87-92.	1.1	9
152	Comparison of band profiles and magnetic properties of the different phases of BaTbO ₃ . <i>Computational Materials Science</i> , 2013, 67, 151-155.	1.4	9
153	Conductivity dependent surface plasmon polariton propagation. <i>Laser Physics</i> , 2016, 26, 095204.	0.6	9
154	Strongly correlated intermetallic rare-earth monoaurides (Ln-Au): Ab-initio study. <i>Journal of Rare Earths</i> , 2018, 36, 1106-1111.	2.5	9
155	Unusual refraction and Fizeau effect for a linearly polarized pulse in rotary chiral media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 1817.	0.9	9
156	Cross-Kerr nonlinearity in the surface plasmon polariton waves generated at the interface of graphene and gain medium. <i>Europhysics Letters</i> , 2018, 122, 57003.	0.7	9
157	Physical properties and possible applications of gold-based rare earth intermetallics (R-Au): A review. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 490, 165477.	1.0	9
158	Tuning the Properties of Novel Magnetic Oxide via Co-Bi Co-substitution Including Theoretical Background of Characterization Techniques. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 2313-2329.	0.8	9
159	Growth evolution of high-quality MOCVD aluminum nitride using nitrogen as carrier gas on the sapphire substrate. <i>Journal of Materials Research</i> , 2021, 36, 4360-4369.	1.2	9
160	Selective sensing of NH ₃ and CH ₂ O molecules by novel 2D porous hexagonal boron oxide (B ₃ O ₃) monolayer: A DFT approach. <i>Surfaces and Interfaces</i> , 2022, 29, 101767.	1.5	9
161	Luminescence from Cr ⁺³ -doped AlN films deposited on optical fiber and silicon substrates for use as waveguides and laser cavities. <i>Applied Optics</i> , 2010, 49, 653.	2.1	8
162	Structural, electronic and thermoelectric properties of CdGa ₂ S ₄ compound under high pressures by mBJ approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16476-16483.	1.1	8

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163	High-Temperature Operation of Al _x Ga _{1-x} N (x < 0.4) Channel Metal Oxide Semiconductor Heterostructure Field Effect Transistors with High-k Atomic Layer Deposited Gate Oxides. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900802.	0.8	8
164	Magneto-optical rotation of surface plasmon polaritons. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 175107.	1.3	8
165	Control of surface plasmon-polaritons at interfaces between triple quantum dots and nanocomposites. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 115002.	1.0	8
166	Strain effect on the electronic and photocatalytic properties of GaN-MSSe (M=Mo, W). <i>Journal of Solid State Chemistry</i> , 2022, 306, 122798.	1.4	8
167	Pseudomorphic Al _x Ga _{1-x} N MQW based deep ultraviolet light emitting diodes over sapphire. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 798-801.	0.8	7
168	Investigation of the optical properties of P, As and Sb incorporated AlGaX alloys using full potential linearized augmented plane wave method. <i>Computer Physics Communications</i> , 2014, 185, 2829-2833.	3.0	7
169	Temporal cloak via Doppler broadening. <i>Laser Physics</i> , 2015, 25, 065405.	0.6	7
170	Electric field gradient analysis of RIn ₃ and RSn ₃ compounds (R = La, Ce, Pr and Nd). <i>Intermetallics</i> , 2017, 91, 95-99.	1.8	7
171	Theoretical investigation of thermoelectric and elastic properties of intermetallic compounds ScTM (TM = Cu, Ag, Au and Pd). <i>International Journal of Modern Physics B</i> , 2018, 32, 1850004.	1.0	7
172	First principles studies of CsLnCdTe ₃ (Ln = Gd-Tm) for green energy resources. <i>Computational Condensed Matter</i> , 2019, 21, e00427.	0.9	7
173	Enhanced and highly tunable Goos-Hänchen shifts at a nanocomposite-graphene interface. <i>Applied Physics Letters</i> , 2019, 114, 161902.	1.5	7
174	The effect of potassium insertion on optoelectronic properties of cadmium chalcogenides. <i>Materials Science in Semiconductor Processing</i> , 2021, 122, 105466.	1.9	7
175	Intriguing electronic, optical and photocatalytic performance of BSe, M ₂ CO ₂ monolayers and BSe-M ₂ CO ₂ (M = Ti, Zr, Hf) van der Waals heterostructures. <i>RSC Advances</i> , 2021, 12, 42-52.	1.7	7
176	Investigation of Linear Tetra-Atomic Negative Ion by Photodetached-Electron Spectra. <i>Chinese Physics Letters</i> , 2011, 28, 083301.	1.3	6
177	Atom Microscopy via Dual Resonant Superposition. <i>Communications in Theoretical Physics</i> , 2015, 64, 741-746.	1.1	6
178	First-principle studies of the ternary palladates CaPd ₃ O ₄ and SrPd ₃ O ₄ . <i>Bulletin of Materials Science</i> , 2016, 39, 1861-1870.	0.8	6
179	First-principles studies of pure and fluorine substituted alanines. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650079.	1.0	6
180	Exergy analysis and optimisation of naphtha reforming process with uncertainty. <i>International Journal of Exergy</i> , 2018, 26, 247.	0.2	6

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181	Theoretical investigations of thermoelectric phenomena in binary semiconducting skutterudites. RSC Advances, 2019, 9, 24981-24986.	1.7	6
182	A computational study on the characteristics of open-shell H-bonding interaction between carbamic acid (NH ₂ COOH) and HO ₂ , HOS or HSO radicals. Journal of Molecular Modeling, 2019, 25, 189.	0.8	6
183	Electronic and optical properties of group IIA-IVB cubic perovskite oxides: Improved TB-mBJ study. Chemical Physics Letters, 2020, 757, 137887.	1.2	6
184	Intriguing electronic structure and photocatalytic performance of bluePâ€“SMSe and bluePâ€“SeMS (M =) Tj ETQq0.0 0 rgBT /Overlock	1.7	6
185	Investigation of the Goos-HÃnchen shift in an optomechanical cavity via quantum control. Physical Review A, 2020, 102, .	1.0	6
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