

Iftikhar Ahmad

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230
papers

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241
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4,591
ext. citations

2.7
avg, IF

5.89
L-index

#	Paper	IF	Citations
230	Elastic constants of cubic crystals. <i>Computational Materials Science</i> , 2014 , 95, 592-599	3.2	192
229	First principle study of the structural and optoelectronic properties of cubic perovskites CsPbM ₃ (M=Cl, Br, I). <i>Physica B: Condensed Matter</i> , 2011 , 406, 3222-3229	2.8	178
228	Ab initio study of the bandgap engineering of Al _{1-x} GaxN for optoelectronic applications. <i>Journal of Applied Physics</i> , 2011 , 109, 023109	2.5	129
227	Structural, electronic and optical properties of CsPbX ₃ (X=Cl, Br, I) for energy storage and hybrid solar cell applications. <i>Journal of Alloys and Compounds</i> , 2017 , 705, 828-839	5.7	119
226	Rashba spin splitting and photocatalytic properties of Ge _{1-x} MS _x Se (M=Mo, W) van der Waals heterostructures. <i>Physical Review B</i> , 2019 , 100,	3.3	92
225	Investigation of structural and optoelectronic properties of BaThO ₃ . <i>Optical Materials</i> , 2011 , 33, 553-557	3.3	87
224	Optoelectronic and solar cell applications of Janus monolayers and their van der Waals heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18612-18621	3.6	77
223	Ab initio calculations of structural, optical and thermoelectric properties for CoSb ₃ and ACo ₄ Sb ₁₂ (A = La, Tl and Y) compounds. <i>Computational Materials Science</i> , 2012 , 65, 509-519	3.2	74
222	lRelast package. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 569-579	5.7	62
221	Electronic structure, optical and photocatalytic performance of SiC-MX (M = Mo, W and X = S, Se) van der Waals heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24168-24175	3.6	60
220	Direct ultraviolet excitation of an amorphous AlN:praseodymium phosphor by codoped Gd ³⁺ cathodoluminescence. <i>Applied Physics Letters</i> , 2007 , 91, 193511	3.4	58
219	Thermoelectric properties of SbNCa ₃ and BiNCa ₃ for thermoelectric devices and alternative energy applications. <i>Computer Physics Communications</i> , 2014 , 185, 1394-1398	4.2	53
218	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	4	47
217	Van der Waals heterostructures of P, BSe, and SiC monolayers. <i>Journal of Applied Physics</i> , 2019 , 125, 094301	2.5	45
216	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	2.8	45
215	Intriguing electronic structures and optical properties of two-dimensional van der Waals heterostructures of Zr ₂ CT ₂ (T = O, F) with MoSe ₂ and WSe ₂ . <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2830-2839	7.1	43
214	First principle studies of structural, elastic, electronic and optical properties of Zn-chalcogenides under pressure. <i>Journal of Semiconductors</i> , 2014 , 35, 072001	2.3	43

213	Electronic structure of cubic perovskite SnTaO ₃ . <i>Intermetallics</i> , 2012 , 31, 287-291	3.5	41
212	Strain engineering of electronic structures and photocatalytic responses of MXenes functionalized by oxygen. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14738-14744	3.6	40
211	Cr-Doped III-V Nitrides: Potential Candidates for Spintronics. <i>Journal of Electronic Materials</i> , 2011 , 40, 1428-1436	1.9	38
210	Thermoelectric studies of IV-VI semiconductors for renewable energy resources. <i>Materials Science in Semiconductor Processing</i> , 2016 , 48, 85-94	4.3	36
209	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	2.8	36
208	Effect of phase transition on the optoelectronic properties of Zn _{1-x} Mg _x S. <i>Journal of Applied Physics</i> , 2012 , 112, 073104	2.5	36
207	Shift of indirect to direct bandgap and optical response of LaAlO ₃ under pressure. <i>Journal of Applied Physics</i> , 2012 , 111, 123116	2.5	36
206	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	2.8	36
205	On the Morphology and Composition of Particulate Matter in an Urban Environment. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 1431-1447	4.6	36
204	GGA+U studies of the cubic perovskites BaMO ₃ (M=Pr, Th and U). <i>Physica B: Condensed Matter</i> , 2013 , 410, 217-221	2.8	33
203	Robust half-metallicity in Ga _{1-x} Mn _x P and Ga _{1-x} Mn _x As. <i>Computational Materials Science</i> , 2013 , 68, 55-60	3.2	32
202	Electronic and optical properties of mixed Be-chalcogenides. <i>Journal of Physics and Chemistry of Solids</i> , 2013 , 74, 181-188	3.9	32
201	Conversion of optically isotropic to anisotropic Cd _x Se _{1-x} alloy with S concentration. <i>Computational Materials Science</i> , 2013 , 77, 145-152	3.2	32
200	Morphological, Raman, electrical and dielectric properties of rare earth doped X-type hexagonal ferrites. <i>Physica B: Condensed Matter</i> , 2016 , 503, 38-43	2.8	30
199	Bandgap investigations and the effect of the In and Al concentration on the optical properties of In _x Al _{1-x} N. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 2181	1.7	30
198	Theoretical investigation of half metallicity in Fe/Co/Ni doped ZnSe material systems. <i>Journal of Applied Physics</i> , 2009 , 106, 093710	2.5	30
197	Theoretical studies of the paramagnetic perovskites MTaO ₃ (M = Ca, Sr and Ba). <i>Materials Chemistry and Physics</i> , 2015 , 162, 308-315	4.4	29
196	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	2.3	29

195	Gray-box modeling for prediction and control of molten steel temperature in tundish. <i>Journal of Process Control</i> , 2014 , 24, 375-382	3.9	29
194	Structural and Optoelectronic Properties of Cubic CsPbF ₃ for Novel Applications. <i>Chinese Physics Letters</i> , 2011 , 28, 117803	1.8	28
193	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	2.3	27
192	Structural, electronic and optical properties of Ca _x Cd _{1-x} O and its conversion from semimetal to wide bandgap semiconductor. <i>Computational Materials Science</i> , 2012 , 58, 71-76	3.2	27
191	Structural and optoelectronic properties of Mg substituted ZTe (Z=Zn, Cd and Hg). <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 83, 75-84	3.9	26
190	First principle study of cubic perovskites: AgTF ₃ (T=Mg, Zn). <i>Physica B: Condensed Matter</i> , 2011 , 406, 4584-4589	2.8	26
189	Structural and thermoelectric properties of pure and La, Y doped HoMnO ₃ for their use as alternative energy materials. <i>Computer Physics Communications</i> , 2015 , 187, 1-7	4.2	25
188	Investigation of half metallicity in Fe doped CdSe and Co doped CdSe materials. <i>Current Applied Physics</i> , 2012 , 12, 184-187	2.6	25
187	Bandgap engineering of Cd _{1-x} Sr _x O. <i>Physica B: Condensed Matter</i> , 2011 , 406, 2509-2514	2.8	25
186	Electronic Band Structures of the Highly Desirable III-V Semiconductors: TB-mBJ DFT Studies. <i>Journal of Electronic Materials</i> , 2016 , 45, 3314-3323	1.9	25
185	Theoretical studies of strongly correlated rare-earth intermetallics RIn ₃ and RSn ₃ (R = Sm, Eu, and Gd). <i>Journal of Applied Physics</i> , 2014 , 116, 103905	2.5	24
184	Electronic Properties of Antiperovskite Materials from State-of-the-Art Density Functional Theory. <i>Journal of Chemistry</i> , 2015 , 2015, 1-11	2.3	24
183	Transition from optically inactive to active Mg-chalcogenides: A first principle study. <i>Computational Materials Science</i> , 2012 , 61, 278-282	3.2	24
182	The investigation of spherical effects on the photodetached electron spectra. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 195004	1.3	24
181	Theoretical studies of the band structure and optoelectronic properties of ZnO _x S _{1-x} . <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 1285-1292	2.1	23
180	Band Profile Comparison of the Cubic Perovskites CaCoO ₃ and SrCoO ₃ . <i>Journal of Electronic Materials</i> , 2013 , 42, 438-444	1.9	23
179	Electronic Structure of Crystalline Buckyballs: fcc-C ₆₀ . <i>Journal of Electronic Materials</i> , 2016 , 45, 339-348	1.9	22
178	Elastic and mechanical properties of lanthanide monoxides. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 292-298	5.7	22

177	Shift of indirect to direct bandgap in going from K to Cs in M ₂ CaF ₃ (M=K, Rb, Cs). <i>Solid State Sciences</i> , 2013 , 16, 152-157	3.4	21
176	Thermoelectric and phononic properties of (Gd, Tb) MnO ₃ compounds: DFT calculations. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 942-952	5.7	19
175	Generalized gradient calculations of structural, electronic and optical properties of Mg _x Cd _{1-x} O oxides. <i>Journal of Alloys and Compounds</i> , 2010 , 493, 212-218	5.7	19
174	Theoretical investigation of electronic structure and thermoelectric properties of MX ₂ (M=Zr, Hf; X=S, Se) van der Waals heterostructures. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 126, 304-309	3.9	19
173	Structural, optical, and electrical characteristics of AlN:Ho thin films irradiated with 700 keV protons. <i>Applied Surface Science</i> , 2015 , 357, 179-183	6.7	18
172	Detailed DFT studies of the band profiles and optical properties of antiperovskites Sb _n Ca ₃ and Bi _n Ca ₃ . <i>Computational Materials Science</i> , 2014 , 85, 310-315	3.2	18
171	Theoretical studies of the osmium based perovskites AOsO ₃ (A=Ca, Sr and Ba). <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 86, 114-121	3.9	17
170	Gain assisted multiple superluminal regions via a Kerr nonlinearity in a double lambda-type atomic configuration. <i>Laser Physics</i> , 2014 , 24, 055401	1.2	17
169	Linear and nonlinear optical response of Mg _x Zn _{1-x} O: A density functional study. <i>Physica B: Condensed Matter</i> , 2011 , 406, 2632-2636	2.8	17
168	Influence of electric field on CO ₂ removal by P-doped C ₆₀ -fullerene: A DFT study. <i>Chemical Physics Letters</i> , 2020 , 742, 137155	2.5	16
167	Synthesis, characterization, and biological study of some biologically potent schiff base transition metal complexes. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2008 , 34, 678-682	1.6	16
166	Effects of cobalt substitution on the physical properties of the perovskite strontium ferrite. <i>Materials Chemistry and Physics</i> , 2017 , 196, 222-228	4.4	15
165	Coherent control of polarization state rotation via Doppler broadening and Kerr nonlinearity in a spinning fast light medium. <i>Laser Physics</i> , 2014 , 24, 115404	1.2	15
164	Thermoelectric properties of metallic antiperovskites AXD ₃ (A=Ge, Sn, Pb, Al, Zn, Ga; X=N, C; D=Ca, Fe, Co). <i>Electronic Materials Letters</i> , 2015 , 11, 466-480	2.9	15
163	First-Principles Study of Perovskite Molybdates AMoO ₃ (A = Ca, Sr, Ba). <i>Journal of Electronic Materials</i> , 2019 , 48, 1730-1739	1.9	15
162	Density functional theory study of emerging pollutants removal from water by covalent triazine based framework. <i>Journal of Molecular Liquids</i> , 2020 , 309, 113008	6	15
161	Optoelectronic properties of Li _x A _x NbO ₃ (A=Na, K, Rb, Cs, Fr) crystals. <i>Physica B: Condensed Matter</i> , 2012 , 407, 368-377	2.8	14
160	Optoelectronic properties of KDP by first principle calculations. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 865-872	2.1	13

159	First principle studies of electronic and magnetic properties of Lanthanide-Gold (RAu) binary intermetallics. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 422, 458-463	2.8	13
158	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	2.8	13
157	Photodetachment of H ⁻ near a Hard Spherical Surface. <i>Chinese Physics Letters</i> , 2012 , 29, 013202	1.8	13
156	Structural, microwave permittivity, and complex impedance studies of cation (Cr, Bi, Al, In) substituted SrNi-X hexagonal nano-sized ferrites. <i>Ceramics International</i> , 2020 , 46, 1907-1915	5.1	13
155	Tunable surface plasmon polaritons at the surfaces of nanocomposite media. <i>Europhysics Letters</i> , 2018 , 122, 17001	1.6	13
154	First-principle studies of the optoelectronic properties of ASnF ₃ (A = Na, K, Rb and Cs). <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750148	1.1	12
153	Electronic band structures of binary skutterudites. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 364-369	5.7	12
152	Gray-box Soft Sensors in Process Industry: Current Practice, and Future Prospects in Era of Big Data. <i>Processes</i> , 2020 , 8, 243	2.9	12
151	Role of nitrogen vacancies in cerium doped aluminum nitride. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 412, 49-54	2.8	12
150	Quasiparticle optoelectronic properties of pure and doped indium oxide. <i>Optical Materials</i> , 2012 , 34, 1406-1414	3.3	12
149	High-Performance Prediction of Molten Steel Temperature in Tundish through Gray-Box Model. <i>ISIJ International</i> , 2013 , 53, 76-80	1.7	12
148	Magneto-electronic studies of anti-perovskites NiNMn ₃ and ZnNMn ₃ . <i>Computational Materials Science</i> , 2014 , 81, 141-145	3.2	12
147	Optoelectronic Response of GeZn ₂ O ₄ through the Modified Becke-Johnson Potential. <i>Chinese Physics Letters</i> , 2012 , 29, 097102	1.8	12
146	Theoretical investigation of half-metallicity in Co/Ni substituted AlN. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 882-888	2.1	12
145	Ab initio studies of electric field gradients and magnetic properties of uranium dipnictides. <i>RSC Advances</i> , 2015 , 5, 37592-37602	3.7	11
144	van der Waals heterostructures based on MSSe (M = Mo, W) and graphene-like GaN: enhanced optoelectronic and photocatalytic properties for water splitting. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 20704-20711	3.6	11
143	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	2.8	10
142	Tunable relativistic quasiparticle electronic and excitonic behavior of the FAPb(I _{1-x} Br _x) alloy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11943-11955	3.6	10

141	Control of Group Velocity via Spontaneous Generated Coherence and Kerr Nonlinearity. <i>Communications in Theoretical Physics</i> , 2014 , 62, 410-416	2.4	10
140	Deep ultraviolet photopumped stimulated emission from partially relaxed AlGaIn multiple quantum well heterostructures grown on sapphire substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 061204	1.3	10
139	Pressure driven spin crossover and isostructural phase transition in LaFeO ₃ . <i>Journal of Applied Physics</i> , 2013 , 114, 243712	2.5	10
138	First principle optoelectronic studies of visible light sensitive CZT. <i>Superlattices and Microstructures</i> , 2013 , 63, 91-99	2.8	10
137	Electronic band structure of LaCoO ₃ /Y/Mn compounds. <i>Physica B: Condensed Matter</i> , 2013 , 410, 112-119	2.8	10
136	Control of slow-to-fast light and single-to-double optomechanically induced transparency in a compound resonator system: A theoretical approach. <i>Europhysics Letters</i> , 2017 , 120, 24001	1.6	10
135	Optical properties of ideal Al ₂ O ₃ and with oxygen point defects: an ab initio study. <i>RSC Advances</i> , 2015 , 5, 55088-55099	3.7	10
134	Effect of size reduction on the electronic and ferromagnetic properties of the In ₂ O ₃ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	10
133	Ultraviolet spectroscopy of Pr ³⁺ and its use in making ultraviolet filters. <i>Current Applied Physics</i> , 2009 , 9, 234-237	2.6	10
132	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	3.2	9
131	Effects of dangling bonds and diameter on the electronic and optical properties of InAs nanowires. <i>RSC Advances</i> , 2015 , 5, 23320-23325	3.7	9
130	A first-principles study of electronic structure and photocatalytic performance of GaN-MX (M = Mo, W; X = S, Se) van der Waals heterostructures. <i>RSC Advances</i> , 2020 , 10, 24683-24690	3.7	9
129	Pressure dependency of localization degree in heavy fermion CeIn ₃ : A density functional theory analysis. <i>Scientific Reports</i> , 2016 , 6, 31734	4.9	9
128	Robust Half-Metallicity and Magnetic Properties of Cubic Perovskite CaFeO ₃ . <i>Chinese Physics Letters</i> , 2013 , 30, 047504	1.8	9
127	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	5.7	9
126	DFT-mBJ Studies of the Band Structures of the II-VI Semiconductors. <i>Materials Today: Proceedings</i> , 2015 , 2, 5122-5127	1.4	9
125	Robust half-metallicity of AlCoN and AlNiN. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 2668-2674	2.74	9
124	Comparison of band profiles and magnetic properties of the different phases of BaTbO ₃ . <i>Computational Materials Science</i> , 2013 , 67, 151-155	3.2	9

123	Classification of partially reflecting surfaces using photodetached electron spectrum. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 4067-4071	2.1	9
122	Electron penetration depth in amorphous AlN exploiting the luminescence of AlN:Tm/AlN:Ho bilayers. <i>Current Applied Physics</i> , 2009 , 9, 417-421	2.6	9
121	Interferences in photodetachment of a triatomic negative ion. <i>Applied Physics Letters</i> , 2009 , 94, 041125	3.4	9
120	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		9
119	Influence of Cr and Zn substitution on structural, magnetic and dielectric properties of Sr _{2-x} Zn _x Ni ₂ Fe _{28-y} CryO ₄₆ X-type hexagonal ferrite. <i>Solid State Sciences</i> , 2020 , 100, 106090	3.4	9
118	First-principles study of BiFeO ₃ and BaTiO ₃ in tetragonal structure. <i>International Journal of Modern Physics B</i> , 2019 , 33, 1950231	1.1	8
117	Prediction of Molten Steel Temperature in Steel Making Process with Uncertainty by Integrating Gray-Box Model and Bootstrap Filter. <i>Journal of Chemical Engineering of Japan</i> , 2014 , 47, 827-834	0.8	8
116	Structural, electronical 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	2.1	8
115	Energy level splitting and luminescence enhancement in AlN:Er by an external magnetic field. <i>Optical Materials</i> , 2015 , 46, 601-604	3.3	8
114	Nanocrystals formation and intense green emission in thermally annealed AlN:Ho films for microlaser cavities and photonic applications. <i>Journal of Applied Physics</i> , 2010 , 108, 043528	2.5	8
113	First-principles study of structural, electronic, magnetic and thermoelectric properties of the cubic mono-pnictides of thorium Th Pn (Pn = Sb and Bi). <i>Computational Condensed Matter</i> , 2017 , 13, 111-119	1.7	7
112	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	2	7
111	Mechanical properties and variation in SOC going from La to Nd in intermetallic RIn ₃ and RSn ₃ (R = La, Ce, Pr, Nd). <i>RSC Advances</i> , 2015 , 5, 39416-39423	3.7	7
110	Effects of Ni Substitution on the Electronic Structure and Magnetic Properties of Perovskite SrFeO ₃ . <i>Journal of Electronic Materials</i> , 2020 , 49, 3780-3790	1.9	7
109	First principle studies of structural, magnetic and elastic properties of orthorhombic rare-earth diaurides intermetallics RAu ₂ (R=La, Ce, Pr and Eu). <i>Materials Chemistry and Physics</i> , 2018 , 212, 44-50	4.4	7
108	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	1.1	7
107	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	1.7	7
106	Density functional studies of magneto-optic properties of CdCoS. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 351, 60-64	2.8	7

105	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		7
104	The effect of Kerr nonlinearity and Doppler broadening on slow light propagation. <i>Laser Physics</i> , 2014 , 24, 025201	1.2	7
103	Control of Wave Propagation and Effect of Kerr Nonlinearity on Group Index. <i>Communications in Theoretical Physics</i> , 2013 , 60, 87-92	2.4	7
102	¹²⁵ Te NMR shielding and optoelectronic spectra in XTe ₃ O ₈ (X=Ti, Zr, Sn and Hf) compounds: Ab initio calculations. <i>Journal of Molecular Structure</i> , 2017 , 1148, 223-230	3.4	7
101	First principle study of band gap nature, spontaneous polarization, hyperfine field and electric field gradient of desirable multiferroic bismuth ferrite (BiFeO ₃). <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 148, 109737	3.9	7
100	Selective adsorption of CO from gas mixture by P-decorated CN fullerene assisted by an electric field: A DFT approach. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 103, 107806	2.8	7
99	Silicon carbide and III-Nitrides nanosheets: Promising anodes for Mg-ion batteries. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123785	4.4	7
98	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	1.1	6
97	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	1.6	6
96	Van der Waals heterostructures of blue phosphorene and scandium-based MXenes monolayers. <i>Journal of Applied Physics</i> , 2019 , 126, 143101	2.5	6
95	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	4.2	6
94	Temporal cloak via Doppler broadening. <i>Laser Physics</i> , 2015 , 25, 065405	1.2	6
93	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, 653-7	0.2	6
92	Investigation of Linear Tetra-Atomic Negative Ion by Photodetached-Electron Spectra. <i>Chinese Physics Letters</i> , 2011 , 28, 083301	1.8	6
91	Interferences in Photodetached Electron Spectra from a Linear Tetra-Atomic Negative Ion. <i>Chinese Physics Letters</i> , 2011 , 28, 063301	1.8	6
90	Electronic structure of the LiA ₂ O ₆ (A= Nb, Ta, and A= W, Mo) ceramics by modified Becke-Johnson potential. <i>Optical Materials</i> , 2016 , 58, 466-475	3.3	6
89	First-principles studies of pure and fluorine substituted alanines. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650079	1.1	6
88	Elastic and Optoelectronic Properties of Cs ₂ NaMCl ₆ (M = In, Tl, Sb, Bi). <i>Journal of Electronic Materials</i> , 2021 , 50, 456-466	1.9	6

87	Removal of azo dye from aqueous solution by a low-cost activated carbon prepared from coal: adsorption kinetics, isotherms study, and DFT simulation. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 10234-10247	5.1	6
86	Effect of strain on structural and electronic properties, and thermoelectric response of MXY (M=Zr, Hf and Pt; X/Y=S, Se) vdW heterostructures; A first principles study. <i>Journal of Solid State Chemistry</i> , 2021 , 299, 122189	3.3	6
85	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	3.1	5
84	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	2	5
83	Magneto-electronic studies of the inverse-perovskite (Eu3O)In. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 381, 34-40	2.8	5
82	Irradiation effects on Nd and W doped Aluminum Nitride thin films. <i>Physica B: Condensed Matter</i> , 2020 , 586, 412086	2.8	5
81	Black Carbon aerosol characteristics and radiative forcing over the high altitude glacier region of Himalaya-Karakorum-Hindukush. <i>Atmospheric Environment</i> , 2020 , 238, 117711	5.3	5
80	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	1.6	5
79	Conductivity dependent surface plasmon polariton propagation. <i>Laser Physics</i> , 2016 , 26, 095204	1.2	5
78	Superluminal propagation in a poly-chromatically driven gain assisted four-level N-type atomic system. <i>Physica Scripta</i> , 2013 , 88, 045402	2.6	5
77	Electron correlation and spin-orbit coupling effects in scandium intermetallic compounds ScTM (TM = Co, Rh, Ir, Ni, Pd, Pt, Cu, Ag and Au). <i>International Journal of Modern Physics B</i> , 2017 , 31, 1750263	1.1	5
76	Dimensions and Analysis of Uncertainty in Industrial Modeling Process. <i>Journal of Chemical Engineering of Japan</i> , 2018 , 51, 533-543	0.8	5
75	Role of the Crystal Lattice Constants and Band Structures in the Optoelectronic Spectra of CdGa ₂ S ₄ by DFT Approaches. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 839-849	1.3	4
74	First principles studies of CsLnCdTe ₃ (Ln = Gd, Sm) for green energy resources. <i>Computational Condensed Matter</i> , 2019 , 21, e00427	1.7	4
73	A computational study on the characteristics of open-shell H-bonding interaction between carbamic acid (NHCOOH) and HO, HOS or HSO radicals. <i>Journal of Molecular Modeling</i> , 2019 , 25, 189	2	4
72	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	2.8	4
71	Enhanced and highly tunable Goos-Hänchen shifts at a nanocomposite-graphene interface. <i>Applied Physics Letters</i> , 2019 , 114, 161902	3.4	4
70	Effects of A-Site cation on the Physical Properties of Quaternary Perovskites AMn ₃ V ₄ O ₁₂ (A= Ca, Ce and Sm). <i>Materials Chemistry and Physics</i> , 2020 , 254, 123229	4.4	4

69	DFT and post-DFT studies of metallic MXY ₃ -type compounds for low temperature TE applications. <i>Solid State Communications</i> , 2016 , 243, 28-35	1.6	4
68	Luminescence Enhancement in Amorphous AlN:W by Co-Doped Gd ³⁺ . <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1519-1522	2.2	4
67	Electronic Structure, Mechanical and Magnetic Properties of the Quaternary Perovskites CaA ₃ V ₄ O ₁₂ (A = Mn, Fe, Co, Ni and Cu). <i>Journal of Electronic Materials</i> , 2020 , 49, 1230-1242	1.9	4
66	Response of structural and optical properties against proton irradiation in AlN:Tm thin films. <i>Radiation Physics and Chemistry</i> , 2021 , 180, 109234	2.5	4
65	First-Principles Study of Electronic Structure, Mechanical, and Thermoelectric Properties of Ternary Palladates CdPd ₃ O ₄ and TlPd ₃ O ₄ . <i>Journal of Electronic Materials</i> , 2018 , 47, 1871-1880	1.9	4
64	Strain engineering of Janus ZrSSe and HfSSe monolayers and ZrSSe/HfSSe van der Waals heterostructure. <i>Chemical Physics Letters</i> , 2021 , 776, 138689	2.5	4
63	Structural, Mechanical and Optoelectronic Properties of Y ₂ M ₂ O ₇ (M = Ti, V and Nb) Pyrochlores: A First Principles Study. <i>Journal of Electronic Materials</i> , 2017 , 46, 4640-4648	1.9	3
62	Electric field gradient analysis of RIn ₃ and RSn ₃ compounds (R = La, Ce, Pr and Nd). <i>Intermetallics</i> , 2017 , 91, 95-99	3.5	3
61	Spectral Hole Burning via Kerr Nonlinearity. <i>Communications in Theoretical Physics</i> , 2015 , 64, 473-478	2.4	3
60	Theoretical Investigations of Quaternary Semiconductors CsInCdTe ₃ (Ln = La, Pr, Nd and Sm). <i>Journal of Electronic Materials</i> , 2020 , 49, 3357-3366	1.9	3
59	Atom Microscopy via Dual Resonant Superposition. <i>Communications in Theoretical Physics</i> , 2015 , 64, 741-746	2.4	3
58	Structural Analysis and Infrared Emission from Ti ³⁺ Doped AlN Deposited on Si(100) and Si(111) Substrates and Optical Fibers. <i>Journal of Low Temperature Physics</i> , 2015 , 179, 365-374	1.3	3
57	Diffusion of Six-Atom Cu Islands on Cu(111) and Ag(111). <i>Chinese Physics Letters</i> , 2011 , 28, 053601	1.8	3
56	Control of surface plasmon-polaritons at interfaces between triple quantum dots and nanocomposites. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 115002	1.7	3
55	Intriguing electronic structure and photocatalytic performance of blueP-SMSe and blueP-SeMS (M = Mo, W) van der Waals heterostructures.. <i>RSC Advances</i> , 2020 , 10, 38114-38119	3.7	3
54	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	1.7	3
53	Theoretical studies of cubic AuCu ₃ -type intermetallic actinide compounds NpPx ₃ (Px=Al, Ga, In). <i>Intermetallics</i> , 2018 , 93, 77-84	3.5	3
52	Spin-orbit coupling effect on the optoelectronic and thermoelectric properties of the perovskites A ₃ SnO (A = Ca, Sr and Ba). <i>Materials Science in Semiconductor Processing</i> , 2021 , 132, 105905	4.3	3

51	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	3	3
50	Electronic structure, optical and magnetic properties of double Perovskites La ₂ MTiO ₆ (M = Co, Ni, Cu and Zn). <i>Materials Chemistry and Physics</i> , 2021 , 272, 125050	4-4	3
49	Cavity electromagnetically induced transparency via spontaneously generated coherence. <i>Journal of Modern Optics</i> , 2017 , 64, 1777-1783	1.1	2
48	Computational Study of Ru ₂ TiZ (Z = Si, Ge, Sn) for Structural, Mechanical and Vibrational Properties. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2019 , 74, 545-550	1.4	2
47	Incoherent and coherent manipulation of surface plasmon hole burning. <i>Laser Physics Letters</i> , 2019 , 16, 036001	1.5	2
46	Theoretical studies of the electronic structure and magnetic properties of aluminum-rich intermetallic alloy Al ₁₃ Fe ₄ . <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850201	1.1	2
45	Theoretical investigations of thermoelectric phenomena in binary semiconducting skutterudites.. <i>RSC Advances</i> , 2019 , 9, 24981-24986	3-7	2
44	Control of the Faraday rotation via electromagnetically induced transparency medium and graphene metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 105401	1.7	2
43	Intriguing electronic and optical properties of M ₂ CX ₂ (M = Mo, W; X = O, F) MXenes and their van der Waals heterostructures. <i>Chemical Physics Letters</i> , 2019 , 731, 136614	2.5	2
42	Robust Half-Metallicity in a Chromium-Substituted AlN. <i>Chinese Physics Letters</i> , 2011 , 28, 108501	1.8	2
41	Intriguing electronic, optical and photocatalytic performance of BSe, MCO monolayers and BSe-MCO (M = Ti, Zr, Hf) van der Waals heterostructures.. <i>RSC Advances</i> , 2021 , 12, 42-52	3-7	2
40	Electronic and optical properties of group IIA-IVB cubic perovskite oxides: Improved TB-mBJ study. <i>Chemical Physics Letters</i> , 2020 , 757, 137887	2.5	2
39	Theoretical studies of CsSnX ₃ (X = Cl, Br and I) for energy storage and hybrid solar cell applications. <i>Materials Today Communications</i> , 2020 , 25, 101517	2.5	2
38	Coherent control of surface plasmon polariton via spontaneously generated coherence. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	2
37	Investigation of MOCVD grown crack-free 4 μ m thick aluminum nitride using nitrogen as a carrier gas. <i>MRS Advances</i> , 2021 , 6, 456-460	0.7	2
36	Time gap for temporal cloak based on spectral hole burning in atomic medium. <i>Chinese Physics B</i> , 2016 , 25, 084205	1.2	2
35	Structural, Thermal and Luminescence Properties of AlN:Tm Thin Films Deposited on Silicon Substrate and Optical Fiber. <i>Semiconductors</i> , 2018 , 52, 2039-2045	0.7	2
34	Strongly correlated intermetallic rare-earth monoaurides (Ln-Au): Ab-initio study. <i>Journal of Rare Earths</i> , 2018 , 36, 1106-1111	3-7	2

33	Growth evolution of high-quality MOCVD aluminum nitride using nitrogen as carrier gas on the sapphire substrate. <i>Journal of Materials Research</i> ,1	2.5	2
32	Structural features and dielectric behavior of Al substituted Cu _{0.7} Ni _{0.3} Fe ₂ O ₄ ferrites. <i>Materials Chemistry and Physics</i> , 2021 , 273, 125028	4.4	2
31	Structural, Mechanical and Magneto-Electronic Properties of the Ternary Sodium Palladium and Platinum Oxides. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2015 , 70, 815-822 ^{1.4}	1.4	1
30	Electronic structure and magnetic properties of the quaternary perovskites LnMn ₃ V ₄ O ₁₂ (Ln = La, Nd and Gd). <i>Philosophical Magazine</i> , 2020 , 100, 2386-2401	1.6	1
29	Synergetic Effect of Calcium Doping on Catalytic Activity of Manganese Ferrite: DFT Study and Oxidation of Hydrocarbon. <i>Crystals</i> , 2020 , 10, 335	2.3	1
28	Electronic and Magnetic Structures, Magnetic Hyperfine Fields and Electric Field Gradients in UX ₃ (X = In, Tl, Pb) Intermetallic Compounds. <i>Journal of Electronic Materials</i> , 2018 , 47, 1045-1058	1.9	1
27	Photodetachment of a Homo-Nuclear Linear Tetra-Atomic Negative Molecular Ion. <i>Chinese Physics Letters</i> , 2012 , 29, 043301	1.8	1
26	In-Depth Analysis of Physicochemical Properties of Particulate Matter (PM ₁₀ , PM _{2.5} and PM ₁) and Its Characterization through FTIR, XRD and SEM/EDX Techniques in the Foothills of the Hindu Kush Region of Northern Pakistan. <i>Atmosphere</i> , 2022 , 13, 124	2.7	1
25	Electronic structure and magnetic properties of the Mg-rich intermetallic NdNiMg ₅ by hybrid density functional theory. <i>Intermetallics</i> , 2020 , 127, 106969	3.5	1
24	Removal of nitrous and carbon mono oxide from flue gases by Si-coordinated nitrogen doped C ₆₀ -fullerene: A DFT approach. <i>Molecular Catalysis</i> , 2021 , 509, 111674	3.3	1
23	Structural, electrical and optical characterizations of yttrium doped aluminum nitride thin films before and after ions irradiation. <i>Optical Materials</i> , 2021 , 116, 111097	3.3	1
22	Enhanced cross-Kerr nonlinearity induced PT -symmetry in optical lattices. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 025401	1.7	1
21	The effect of potassium insertion on optoelectronic properties of cadmium chalcogenides. <i>Materials Science in Semiconductor Processing</i> , 2021 , 122, 105466	4.3	1
20	Electronic structure and magnetic properties of the perovskites SrTMO ₃ (TM = Mn, Fe, Co, Tc, Ru, Rh, Re, Os and Ir). <i>Physica B: Condensed Matter</i> , 2022 , 624, 413361	2.8	1
19	Fabrication and Ions Irradiation Study of AlN:Gd Thin Films. <i>ECS Journal of Solid State Science and Technology</i> , 2022 , 11, 043002	2	1
18	Silicon-doped boron nitride graphyne-like sheet for catalytic NO reduction: A DFT study.. <i>Journal of Molecular Graphics and Modelling</i> , 2022 , 114, 108186	2.8	1
17	Predictions of bandgap and subbands of Al ₂ O ₃ in presence of intrinsic point defects by DFT+TB-mBJ. <i>Computational Condensed Matter</i> , 2019 , 19, e00379	1.7	0
16	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	4.1	0

15	Strain effect on the electronic and photocatalytic properties of GaN-MSSe (M=Mo, W). <i>Journal of Solid State Chemistry</i> , 2022 , 306, 122798	3.3	0
14	Penta graphene: a superior anode material for Mg-ion batteries with high specific theoretical capacity. <i>Ionics</i> , 2021 , 27, 4819-4828	2.7	0
13	Tuning the Properties of Novel Magnetic Oxide via CoBi Co-substitution Including Theoretical Background of Characterization Techniques. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 2313-2329	1.5	0
12	Controlling Casimir force via coherent driving field. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	0
11	Magneto-optical rotation of surface plasmon polaritons. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 175107	3	0
10	Exergy analysis and optimisation of naphtha reforming process with uncertainty. <i>International Journal of Exergy</i> , 2018 , 26, 247	1.2	0
9	Al-decorated C ₂₄ N ₂₄ fullerene: A robust single-atom catalyst for CO oxidation. <i>Polyhedron</i> , 2021 , 115492	2.7	0
8	Superposition of Stationary Wave Fields Via Atom Microscopy. <i>Communications in Theoretical Physics</i> , 2015 , 63, 340-346	2.4	
7	Hyperfine field, electric field gradient, quadrupole coupling constant and magnetic properties of challenging actinide digallide. <i>Physica B: Condensed Matter</i> , 2017 , 526, 102-109	2.8	
6	Study of robust half-metallicity of Ga _{0.875} Cr _{0.125} As. <i>Indian Journal of Physics</i> , 2014 , 88, 385-389	1.4	
5	The influence of Sr and Fe on the conductance of magnetoresistant compounds. <i>Russian Journal of Physical Chemistry A</i> , 2008 , 82, 2169-2172	0.7	
4	Optical activity and excitation of surface plasmon polaritons with electromagnetically induced chiral media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 2936	1.7	
3	Enhanced dispersive properties of graphene plasmons on substrates of composite materials. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 055001	1.7	
2	The Influence of Oxygen Substitution on the Optoelectronic Properties of ZnTe. <i>Journal of Chemistry</i> , 2016 , 2016, 1-8	2.3	
1	Revealing the quasiparticle electronic and excitonic nature in cubic, tetragonal, and hexagonal phases of FAPbI ₃ . <i>AIP Advances</i> , 2022 , 12, 025330	1.5	