

Iftikhar Ahmad

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

230
papers

3,610
citations

30
h-index

48
g-index

241
ext. papers

4,591
ext. citations

2.7
avg, IF

5.89
L-index

#	Paper	IF	Citations
230	In-Depth Analysis of Physicochemical Properties of Particulate Matter (PM10, PM2.5 and PM1) 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
229	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
228	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
227	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
226	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	
225	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
224	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
223	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
222	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
221	Coherent control of surface plasmon polariton via spontaneously generated coherence. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	2
220	Enhanced dispersive properties of graphene plasmons on substrates of composite materials. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 055001	1.7	
219	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
218	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	1.5	0
217	Removal of nitrous and carbon mono oxide from flue gases by Si-coordinated nitrogen doped C60-fullerene: A DFT approach. <i>Molecular Catalysis</i> , 2021 , 509, 111674	3.3	1
216	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
215	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
214	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

213	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
212	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
211	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
210	Silicon carbide and III-Nitrides nanosheets: Promising anodes for Mg-ion batteries. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123785	4.4	7
209	Enhanced cross-Kerr nonlinearity induced PT -symmetry in optical lattices. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 025401	1.7	1
208	Magneto-optical rotation of surface plasmon polaritons. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 175107	3	0
207	The effect of potassium insertion on optoelectronic properties of cadmium chalcogenides. <i>Materials Science in Semiconductor Processing</i> , 2021 , 122, 105466	4.3	1
206	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
205	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
204	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
203	Al-decorated C ₂₄ N ₂₄ fullerene: A robust single-atom catalyst for CO oxidation. <i>Polyhedron</i> , 2021 , 115492-7	2.7	0
202	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
201	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
200	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
199	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
198	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
197	Irradiation effects on Nd and W doped Aluminum Nitride thin films. <i>Physica B: Condensed Matter</i> , 2020 , 586, 412086	2.8	5
196	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

195	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
194	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
193	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
192	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
191	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
190	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
189	Tunable relativistic quasiparticle electronic and excitonic behavior of the FAPb(I ₂) alloy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11943-11955	3.6	10
188	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
187	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	
186	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
185	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
184	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
183	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
182	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
181	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
180	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
179	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
178	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

177	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
176	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
175	First principles studies of CsLnCdTe ₃ (Ln = Gd, Sm) for green energy resources. <i>Computational Condensed Matter</i> , 2019 , 21, e00427	1.7	4
174	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
173	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
172	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
171	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
170	Enhanced and highly tunable Goos-Hänchen shifts at a nanocomposite-graphene interface. <i>Applied Physics Letters</i> , 2019 , 114, 161902	3.4	4
169	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
168	Van der Waals heterostructures of P, BSe, and SiC monolayers. <i>Journal of Applied Physics</i> , 2019 , 125, 094301	2.5	45
167	Incoherent and coherent manipulation of surface plasmon hole burning. <i>Laser Physics Letters</i> , 2019 , 16, 036001	1.5	2
166	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
165	Theoretical investigations of thermoelectric phenomena in binary semiconducting skutterudites.. <i>RSC Advances</i> , 2019 , 9, 24981-24986	3.7	2
164	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
163	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
162	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
161	Van der Waals heterostructures of blue phosphorene and scandium-based MXenes monolayers. <i>Journal of Applied Physics</i> , 2019 , 126, 143101	2.5	6
160	Rashba spin splitting and photocatalytic properties of GeCM ₂ SSe (M=Mo, W) van der Waals heterostructures. <i>Physical Review B</i> , 2019 , 100,	3.3	92

159	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
158	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
157	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
156	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
155	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
154	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
153	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
152	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
151	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
150	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
149	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
148	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
147	lRelast package. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 569-579	5.7	62
146	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
145	Dimensions and Analysis of Uncertainty in Industrial Modeling Process. <i>Journal of Chemical Engineering of Japan</i> , 2018 , 51, 533-543	0.8	5
144	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
143	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
142	Exergy analysis and optimisation of naphtha reforming process with uncertainty. <i>International Journal of Exergy</i> , 2018 , 26, 247	1.2	0

141	Strongly correlated intermetallic rare-earth monoaurides (Ln-Au): Ab-initio study. <i>Journal of Rare Earths</i> , 2018 , 36, 1106-1111	3.7	2
140	Tunable surface plasmon polaritons at the surfaces of nanocomposite media. <i>Europhysics Letters</i> , 2018 , 122, 17001	1.6	13
139	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
138	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
137	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
136	Cavity electromagnetically induced transparency via spontaneously generated coherence. <i>Journal of Modern Optics</i> , 2017 , 64, 1777-1783	1.1	2
135	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
134	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
133	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
132	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
131	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
130	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
129	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
128	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
127	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	
126	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	2.1	8
125	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
124	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

123	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
122	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
121	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
120	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
119	Electronic Structure of Crystalline Buckyballs: fcc-C ₆₀ . <i>Journal of Electronic Materials</i> , 2016 , 45, 339-348	1.9	22
118	Conductivity dependent surface plasmon polariton propagation. <i>Laser Physics</i> , 2016 , 26, 095204	1.2	5
117	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
116	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
115	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
114	Role of nitrogen vacancies in cerium doped aluminum nitride. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 412, 49-54	2.8	12
113	Thermoelectric studies of IV-VI semiconductors for renewable energy resources. <i>Materials Science in Semiconductor Processing</i> , 2016 , 48, 85-94	4.3	36
112	The Influence of Oxygen Substitution on the Optoelectronic Properties of ZnTe. <i>Journal of Chemistry</i> , 2016 , 2016, 1-8	2.3	
111	Electronic structure of the LiAA ₂ O ₆ (A ₁ =Nb, Ta, and A ₂ =W, Mo) ceramics by modified Becke-Johnson potential. <i>Optical Materials</i> , 2016 , 58, 466-475	3.3	6
110	Time gap for temporal cloak based on spectral hole burning in atomic medium. <i>Chinese Physics B</i> , 2016 , 25, 084205	1.2	2
109	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
108	First-principles studies of pure and fluorine substituted alanines. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650079	1.1	6
107	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
106	Controlling Casimir force via coherent driving field. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	0

105	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
104	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
103	Electronic band structures of binary skutterudites. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 364-369	5.7	12
102	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
101	Ab initio studies of electric field gradients and magnetic properties of uranium dipnictides. <i>RSC Advances</i> , 2015 , 5, 37592-37602	3.7	11
100	Superposition of Stationary Wave Fields Via Atom Microscopy. <i>Communications in Theoretical Physics</i> , 2015 , 63, 340-346	2.4	
99	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
98	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
97	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
96	Spectral Hole Burning via Kerr Nonlinearity. <i>Communications in Theoretical Physics</i> , 2015 , 64, 473-478	2.4	3
95	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
94	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
93	Magneto-electronic studies of the inverse-perovskite (Eu ₃ O)In. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 381, 34-40	2.8	5
92	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
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