

Yarub Al-Douri

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.

278
papers

5,951
citations

40
h-index

59
g-index

295
ext. papers

7,927
ext. citations

2.9
avg, IF

6.34
L-index

#	Paper	IF	Citations
278	Effect of chiral angle and chiral index on the vibration of single-walled carbon nanotubes using nonlocal Euler-Bernoulli beam model. <i>Computational Condensed Matter</i> , 2022 , 30, e00655	1.7	0
277	Structural, elastic, electronic and optical properties of the newly synthesized selenides Tl_2CdXSe_4 (X = Ge, Sn). <i>European Physical Journal B</i> , 2022 , 95, 1	1.2	0
276	Optical investigations of Cu_2CdSnS_4 quaternary alloy nanostructure for indoor optical wireless communications. <i>Optics Communications</i> , 2022 , 128351	2	0
275	Elastic, electronic, optical and thermoelectric properties of the novel Zintl-phase Ba_2ZnP_2 . <i>Solid State Sciences</i> , 2022 , 128, 106893	3.4	3
274	Nanomaterial-based biosensors for COVID-19 detection. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2021 , 1-24	10.1	1
273	Surface tension under magnetic field effect for nanoscaled water. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	0
272	First-principles predictions of the structural, electronic, optical and elastic properties of the zintl-phases AE_3GaAs_3 (AE = Sr, Ba). <i>Solid State Sciences</i> , 2021 , 114, 106563	3.4	31
271	Synthesis and optimization of high surface area mesoporous date palm fiber-based nanostructured powder activated carbon for aluminum removal. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 32, 472-484	2.2	5
270	Structural, electronic, magnetic and mechanical properties of the full-Heusler compounds $Ni_2Mn(Ge,Sn)$ and Mn_2NiGe . <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2021 , 76, 693-702	1.4	1
269	Structural, electronic and thermodynamic investigation of Ag_2GdSi , Ag_2GdSn and $Ag_2Gd Pb$ Heusler alloys: First-principles calculations. <i>Materialpruefung/Materials Testing</i> , 2021 , 63, 537-542	1.9	24
268	First-Principles Calculations to Investigate Structural, Electronic, Elastic, Magnetic, and Thermodynamic Properties of Full-Heusler Rh_2MnZ (Z = Zr, Hf). <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 269-283	1.5	54
267	Production of powder-activated carbon from natural resources 2021 , 277-299		1
266	The effect of Cu/In molar ratio on the analysis and characterization of $CuInS_2$ nanostructures. <i>Emergent Materials</i> , 2021 , 4, 413-422	3.5	2
265	Temperature effect to investigate optical and structural properties of AZO nanostructures for optoelectronics. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	10
264	Ab initio exploration of the structural, elastic, electronic and optical properties of a new layered perovskite-type oxyfluoride: $CsSrNb_2O_6F$. <i>Materials Science in Semiconductor Processing</i> , 2021 , 131, 105890	4.3	15
263	Improved room temperature dielectric properties of Gd^{3+} and Nb^{5+} co-doped Barium Titanate ceramics. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160836	5.7	18
262	Green synthesis, analysis and characterization of $XZnFe_2O_3$ (X=Mg,Co,Ni) quaternary alloys nanoparticles and their potential application for optoelectronics and antibacterial. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 1487-1495	5.5	6

261	Morphological and optical investigations of the NiZnFe ₂ O ₃ quaternary alloy nanostructures for potential application in optoelectronics. <i>Journal of Taibah University for Science</i> , 2021 , 15, 275-281	3	2
260	Fabrication and analysis of starch-based green materials 2021 , 301-318		
259	Detecting the DNA of dengue serotype 2 using aluminium nanoparticle doped zinc oxide nanostructure: Synthesis, analysis and characterization. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 5515-5523	5.5	20
258	Recent Progress in the Development of Biosensors for Chemicals and Pesticides Detection. <i>IEEE Access</i> , 2020 , 8, 82514-82527	3.5	14
257	Computational Prediction of Structural, Electronic, Elastic, and Thermoelectric Properties of FeVX (X = As, P) Half-Heusler Compounds. <i>Journal of Electronic Materials</i> , 2020 , 49, 4916-4922	1.9	10
256	Synthesis, Characterization, and Analysis of Hybrid Carbon Nanotubes by Chemical Vapor Deposition: Application for Aluminum Removal. <i>Polymers</i> , 2020 , 12,	4.5	6
255	Physical studies of metal oxide powders 2020 , 1-15		1
254	Ab initio prediction of the elastic, electronic and optical properties of a new family of diamond-like semiconductors, Li ₂ HgMS ₄ (M = Si, Ge and Sn). <i>Journal of Alloys and Compounds</i> , 2020 , 843, 155991	5.7	15
253	Metal oxides in electronics 2020 , 263-278		0
252	Elastic, electronic, optical and thermodynamic properties of Ba ₃ Ca ₂ Si ₂ N ₆ semiconductor: First-principles predictions. <i>Physica B: Condensed Matter</i> , 2020 , 589, 412213	2.8	50
251	Theoretical investigation of the structural, elastic, electronic, and optical properties of the ternary tetragonal tellurides KBTe ₂ (B = Al, In). <i>Materials Science in Semiconductor Processing</i> , 2020 , 114, 105085	4.3	17
250	Structural, elastic, electronic, magnetic, optical, and thermoelectric properties of the diamond-like quaternary semiconductor CuMn ₂ InSe ₄ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 1091-1102	1.5	25
249	Nanosecond pulsed laser ablation to synthesize ternary alloy colloidal nanoparticles 2020 , 25-38		5
248	First-principles computations of (hbox {Y}_{x}hbox {Ga}_{1-x})As-ternary alloys: a study on structural, electronic, optical and elastic properties. <i>Bulletin of Materials Science</i> , 2020 , 43, 1	1.7	53
247	Fabrication and characterizations of Al nanoparticles doped ZnO nanostructures-based integrated electrochemical biosensor. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 857-867	5.5	28
246	First-principles calculations to investigate structural and thermodynamic properties of Ni ₂ LaZ (Z = As, Sb and Bi) Heusler alloys. <i>Indian Journal of Physics</i> , 2020 , 94, 1733-1747	1.4	60
245	ZnO nanostructures: analysis and characterization by the electrospinning technique. <i>Emergent Materials</i> , 2020 , 3, 947-953	3.5	1
244	Electronic and thermoelectric properties of the layered Zintl phase CaIn ₂ P ₂ : first-principles calculations. <i>Philosophical Magazine</i> , 2020 , 100, 3023-3039	1.6	38

243	The effect of graphite type on the synthesis of SiC nanomaterials by microwave-assisted synthesis. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	2
242	First-principles calculations to investigate magnetic and thermodynamic properties of new multifunctional full-Heusler alloy Co ₂ TaGa. <i>Indian Journal of Physics</i> , 2020 , 94, 767-777	1.4	73
241	Temperature and doping effects on the transport properties of SrIn ₂ P ₂ Zintl compound. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152384	5.7	7
240	Synthesis and analysis of SnO ₂ /ZnO nanocomposites: Structural studies and optical investigations with Maxwell-Garnett model. <i>Materials Chemistry and Physics</i> , 2020 , 240, 122254	4.4	8
239	Hybrid GMR/IR probe to reduce the effects of lift-off. <i>Measurement and Control</i> , 2019 , 52, 588-598	1.5	6
238	Synthesis of silicon carbide nanomaterials by microwave heating: Effect of types of carbon nanotubes. <i>Solid State Sciences</i> , 2019 , 98, 106023	3.4	8
237	Uniformity improvement by integrated electrochemical-plating process for CMOS logic technologies. <i>Journal of Manufacturing Processes</i> , 2019 , 38, 422-431	5	5
236	Nucleic Acid Complementation Analysis on Biosensors 2019 , 95-115		1
235	Synthesis and Characterization of Natural Extracted Precursor Date Palm Fibre-Based Activated Carbon for Aluminum Removal by RSM Optimization. <i>Processes</i> , 2019 , 7, 249	2.9	13
234	Exploiting of geothermal energy reserve and potential in Saudi Arabia: A case study at Ain Al Harrah. <i>Energy Reports</i> , 2019 , 5, 632-638	4.6	10
233	First-Principles Calculations to Investigate the Refractive Index and Optical Dielectric Constant of Na ₃ SbX ₄ (X = S, Se) Ternary Chalcogenides. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900131	1.3	46
232	Electronic structure and optical properties of the dialkali metal monotelluride compounds: Ab initio study. <i>Journal of Molecular Graphics and Modelling</i> , 2019 , 90, 77-86	2.8	15
231	Structural, dielectric and low temperature magnetic response of Zn doped cobalt ferrite nanoparticles. <i>AIP Advances</i> , 2019 , 9, 055202	1.5	33
230	Annealing temperature effect on structural and optical investigations of Fe ₂ O ₃ nanostructure. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 2164-2169	5.5	12
229	Review of the renewable energy outlook in Saudi Arabia. <i>Journal of Renewable and Sustainable Energy</i> , 2019 , 11, 015906	2.5	11
228	Effect of nitrogen doping on structural and optical properties of Mg _x Zn _{1-x} O ternary alloys. <i>Optical Materials</i> , 2019 , 89, 554-558	3.3	21
227	Thickness effect of ZnO/PPC gas sensor on the sensing properties of NO ₂ gas 2019 ,		2
226	First-principle Calculations to Investigate Electronic And Optical Properties of MgO Monolayer. <i>Materials Express</i> , 2019 , 9, 166-172	1.3	4

225	Nanoelectronics in Biosensing Applications 2019 , 211-224		4
224	Synthesis and evaluation of the structural, optical, and antibacterial properties of copper oxide nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	25
223	The Elastic, Electronic and Thermodynamic Properties of a New Cd Based Full Heusler Compounds - A Theoretical Investigation Using DFT Based FP-LMTO Approach. <i>Acta Physica Polonica A</i> , 2019 , 136, 127-134	0.6	25
222	Transition metals doped In ₂ S ₃ nanostructure: structural and optical features. <i>Materials Research Express</i> , 2019 , 6, 125914	1.7	7
221	Improved efficiency of Cu(In,Ga)Se ₂ thinfilm solar cells using a buffer layer alternative to CdS. <i>Solar Energy</i> , 2019 , 178, 150-156	6.8	28
220	Correlation Between Magnetization and Particle Size of CdS Nanostructures by Solvothermal Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 283-289	1.5	9
219	Challenges in improving the performance of eddy current testing: Review. <i>Measurement and Control</i> , 2019 , 52, 46-64	1.5	38
218	Raman spectroscopy and FTIR spectroscopy studies of Mn-doped CdSe QDs at different particles size. <i>Optik</i> , 2019 , 179, 628-631	2.5	7
217	Electronic, optical, elastic, thermoelectric and thermodynamic properties of the spinel oxides ZnRh ₂ O ₄ and CdRh ₂ O ₄ . <i>Journal of Alloys and Compounds</i> , 2019 , 774, 299-314	5.7	41
216	Nanosecond pulsed laser ablation to synthesize GaO colloidal nanoparticles: Optical and structural properties. <i>Optik</i> , 2019 , 178, 337-342	2.5	19
215	Gd impurities effect on (Co) ₂ (CrSi) alloy: first-principle calculations. <i>Bulletin of Materials Science</i> , 2018 , 41, 1	1.7	28
214	First-principle calculations of structural, electronic and magnetic investigations of Mn ₂ RuGe _{1-x} Sn _x quaternary Heusler alloys. <i>Chinese Journal of Physics</i> , 2018 , 56, 567-573	3.5	54
213	Structural, Elastic, Thermodynamic, Electronic, and Magnetic Investigations of Full-Heusler Compound Ag ₂ CeAl: FP-LAPW Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 3183-3192	1.5	38
212	Structural, elastic, electronic, optical and thermoelectric properties of the Zintl-phase Ae ₃ AlAs ₃ (Ae = Sr, Ba). <i>Philosophical Magazine</i> , 2018 , 98, 1217-1240	1.6	10
211	Analysis and characterization of Cu ₂ CdSnS ₄ quaternary alloy nanostructures deposited on GaN. <i>Indian Journal of Physics</i> , 2018 , 92, 695-703	1.4	17
210	Electronic, optical and thermoelectric investigations of Zintl phase AE ₃ AlAs ₃ (AE = Sr, Ba): First-principles calculations. <i>Chinese Journal of Physics</i> , 2018 , 56, 870-879	3.5	51
209	Structural and Optical Properties of Nanophotonic LiNbO ₃ under Stirrer Time Effect. <i>Journal of Optical Communications</i> , 2018 , 39, 297-306	1.2	11
208	Structural, magnetic, electronic and mechanical properties of full-Heusler alloys Co ₂ YAl (Y = Fe, Ti): First principles calculations with different exchange-correlation potentials. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 448, 208-220	2.8	116

207	First-Principle Calculations of Structural, Elastic, and Electronic Properties of Intermetallic Rare Earth R ₂ Ni ₂ Pb (R = Ho, Lu, and Sm) Compounds. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 395-403	1.5	40
206	Half-Metallic Ferrimagnetic Characteristics of Co ₂ YZ (Z = P, As, Sb, and Bi) New Full-Heusler Alloys: a DFT Study. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 241-250	1.5	65
205	Electronic and Magnetic Investigations of Rare-Earth Tm-doped AlGa _n Ternary Alloy. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 1767-1771	1.5	21
204	Synthesis of carbon-based quantum dots from starch extracts: Optical investigations. <i>Luminescence</i> , 2018 , 33, 260-266	2.5	19
203	Stirrer time effect on optical properties of nanophotonic LiNbO ₃ . <i>Materials Chemistry and Physics</i> , 2018 , 203, 243-248	4.4	17
202	Spin-coating technique to investigate structural and optical properties of nano and micro cubic-like photonic LiNbO ₃ under annealing temperature effect. <i>Optik</i> , 2018 , 172, 519-525	2.5	8
201	Effect of Temperature on the Physical, Electro-Chemical and Adsorption Properties of Carbon Micro-Spheres Using Hydrothermal Carbonization Process. <i>Nanomaterials</i> , 2018 , 8,	5.4	17
200	Fabrication of Cu ₂ O Nanostructured Thin Film by Anodizing. <i>Materials Science-Poland</i> , 2018 , 36, 209-216	0.6	4
199	Structural, electronic, optical and thermodynamic investigations of NaXF ₃ (X = Ca and Sr): First-principles calculations. <i>Chinese Journal of Physics</i> , 2018 , 56, 131-144	3.5	52
198	Effect of stirring time on the structural parameters of nanophotonic LiNbO ₃ deposited by spin-coating technique. <i>Optik</i> , 2018 , 156, 886-890	2.5	14
197	Effect of Temperature and Pressure on Structural and Magnetic Properties of Strontium-Filled Skutterudites SrT ₄ Sb ₁₂ : LDA and LSDA Calculations. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 915-923	1.5	10
196	Synthesis and Characterization of Cu ₂ CdSnS ₄ Quaternary Alloy Nanostructures. <i>International Journal of Electrochemical Science</i> , 2018 , 6693-6707	2.2	19
195	Optical structure modification induced by lattice strain in Mn-doped CdSe QDs. <i>Optical Materials</i> , 2018 , 86, 441-448	3.3	5
194	Synthesized Cu ₂ Zn _{1-x} Cd _x SnS ₄ Quaternary Alloys Nanostructures for Optoelectronic Applications 2018 , 209-222		
193	Lubricated Conditions Imposed on Coating Multi-layer on Wear Resistance Under Cr ₂ O ₃ Effect. <i>Materials Research</i> , 2018 , 21,	1.5	1
192	Electronic and thermoelectric properties of the layered BaF ₉ AgCh (Ch = S, Se and Te): First-principles study. <i>Journal of Alloys and Compounds</i> , 2018 , 759, 32-43	5.7	62
191	Structural, optical and electrical investigations of Cu ₂ Zn _{1-x} Cd _x SnS ₄ /Si quaternary alloy nanostructures synthesized by spin coating technique. <i>Microsystem Technologies</i> , 2017 , 23, 2223-2232	1.7	17
190	Pressure and temperature dependence of the structural, elastic and thermodynamic properties of potassium telluride: First-principles calculations. <i>Chinese Journal of Physics</i> , 2017 , 55, 769-779	3.5	23

189	Pressure effect on structural, electronic and thermodynamic investigations of europium filled skutterudite EuFe ₄ Sb ₁₂ : LDA and LSDA approximations. <i>Chinese Journal of Physics</i> , 2017 , 55, 386-399	3.5	7
188	Surface functionalized Cu ₂ Zn _{1-x} Cd _x SnS ₄ quinary alloyed nanostructure for DNA sensing. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	16
187	Doping-Induced Half-Metallic Ferromagnetism in Vanadium and Chromium-Doped Alkali Oxides K ₂ O and Rb ₂ O: Ab Initio Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 2197-2210	1.5	28
186	A needle-like Cu ₂ CdSnS ₄ alloy nanostructure-based integrated electrochemical biosensor for detecting the DNA of Dengue serotype 2. <i>Mikrochimica Acta</i> , 2017 , 184, 2211-2218	5.8	45
185	First-principles Calculations of Structural, Magnetic Electronic and Optical Properties of Rare-earth Metals TbX (X=N, O, S, Se). <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 3471-3479	1.5	42
184	Structural, elastic, electronic and optical properties of the novel quaternary diamond-like semiconductors Cu ₂ MgSiS ₄ and Cu ₂ MgGeS ₄ . <i>Solid State Sciences</i> , 2017 , 70, 21-35	3.4	18
183	Structural, Elastic, Electronic and Optical Properties of LaOAgS-Type Silver Fluoride Chalcogenides: First-Principles Study. <i>Journal of Electronic Materials</i> , 2017 , 46, 4539-4556	1.9	39
182	First-principles calculations to investigate the structural, electronic and optical properties of Zn _{1-x} MgxTe ternary alloys. <i>Chinese Journal of Physics</i> , 2017 , 55, 1018-1031	3.5	21
181	Optical properties of (Pb 1- x Mn x S) 1- y Fe y materials from first-principles calculations. <i>Chinese Journal of Physics</i> , 2017 , 55, 1032-1043	3.5	20
180	Aluminium nanoparticles size effect on the optical and structural properties of ZnO nanostructures synthesized by spin-coating technique. <i>Results in Physics</i> , 2017 , 7, 1190-1197	3.7	24
179	Hydrostatic pressure effects on the structural, elastic and thermodynamic properties of the complex transition metal hydrides A ₂ OsH ₆ (A = Mg, Ca, Sr and Ba). <i>High Pressure Research</i> , 2017 , 37, 558-578	1.6	12
178	Effective Synthesis of Silicon Carbide Nanotubes by Microwave Heating of Blended Silicon Dioxide and Multi-Walled Carbon Nanotube. <i>Materials Research</i> , 2017 , 20, 1658-1668	1.5	17
177	Etching time effect on optical properties of porous silicon for solar cells fabrication. <i>Optik</i> , 2017 , 147, 343-349	2.5	17
176	First-principles calculations of pressure and temperature dependence of thermodynamic properties of anti-perovskite BiNBa ₃ compound. <i>Chinese Journal of Physics</i> , 2017 , 55, 2144-2155	3.5	59
175	GaNO colloidal nanoparticles synthesis by nanosecond pulsed laser ablation: Laser fluence dependent optical absorption and structural properties. <i>Powder Technology</i> , 2017 , 320, 457-461	5.2	30
174	Structural, Mechanical and Thermodynamic Properties under Pressure Effect of Rubidium Telluride: First Principle Calculations. <i>Archives of Metallurgy and Materials</i> , 2017 , 62, 865-871		25
173	Structural, morphological and electrical properties of Cd ²⁺ -doped MgFe _{2-x} O ₄ ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017 , 726, 179-186	5.7	54
172	Structural, elastic and lattice dynamical properties of the alkali metal tellurides: First-principles study. <i>Physica B: Condensed Matter</i> , 2017 , 521, 204-214	2.8	31

171	Electronic and Magnetic Properties of $\text{Co}_2\text{CrGa}_{1-x}\text{Si}_x$ Heusler Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 421-424	1.5	37
170	Annealing temperature effect on structural, optical, morphological and electrical properties of CdS/Si(100) nanostructures. <i>Microsystem Technologies</i> , 2016 , 22, 2529-2541	1.7	10
169	A novel quinary alloy ($\text{Cu}_2\text{Zn}_{1-x}\text{Cd}_x\text{SnS}_4$) nanostructured sensor for biomedical diagnosis. <i>Materials Research Express</i> , 2016 , 3, 085022	1.7	16
168	Investigated electronic structure and magnetic ordering of rare earth impurities (Eu, Gd) in ZnO. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650225	1.1	14
167	Optical analysis of lens-like $\text{Cu}_2\text{CdSnS}_4$ quaternary alloy nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	17
166	Structural, electronic, optical and elastic properties of the complex K_2PtCl_6 -structure hydrides ARuH_6 (A = Mg, Ca, Sr and Ba): first-principles study. <i>Philosophical Magazine</i> , 2016 , 96, 2328-2361	1.6	14
165	Ultrasonic effect on optical, structural, topographical and morphological studies of $\text{Cu}_2\text{CdSnS}_4$ quaternary alloy nanostructures. <i>Journal of Alloys and Compounds</i> , 2016 , 686, 883-895	5.7	26
164	Cell-targeting aptamers act as intracellular delivery vehicles. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 6955-69	5.7	16
163	Comparative study of Fe doped ZnO based diluted and condensed magnetic semiconductors in wurtzite and zinc-blende structures by first-principles calculations. <i>Materials Science in Semiconductor Processing</i> , 2016 , 43, 123-128	4.3	19
162	Realization and computational analysis of splitting in higher order optical vortices. <i>Optik</i> , 2016 , 127, 5757-5760	5.7	16
161	FP-LAPW investigation of mechanical and thermodynamic properties of X_2O (X = Na and K) under pressure and temperature effects. <i>Optik</i> , 2016 , 127, 5155-5162	2.5	12
160	Fabricated Optical Strip Waveguide of Nanophotonics Lithium Niobate. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-10	1.8	11
159	XRD Analysis and Morphological Studies of Spin Coated LiNbO_3 Nano Photonic Crystal Prepared for Optical Waveguide Application. <i>Advanced Materials Research</i> , 2016 , 1133, 457-461	0.5	19
158	Electronic and Magnetic Properties of Cr_2GeC with GGA + U Approximation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 1267-1272	1.5	12
157	Structural, electronic, elastic, optical and thermodynamic properties of copper halides CuCl, CuBr and their ternary alloys $\text{CuCl}_{1-x}\text{Br}_x$ (0.0 \leq x \leq 1.0) using full-potential linear muffin-tin orbital (FP-LMTO) method. <i>Optik</i> , 2016 , 127, 4559-4573	2.5	18
156	Synthesis, purification and microstructural characterization of nickel doped carbon nanotubes for spintronic applications. <i>Ceramics International</i> , 2016 , 42, 5600-5606	5.1	20
155	First-principles calculations of structural, elastic, thermodynamic, electronic and magnetic investigations of the filled skutterudite alloy $\text{UFe}_4\text{Sb}_{12}$. <i>Materials Science in Semiconductor Processing</i> , 2016 , 41, 102-108	4.3	14
154	Structural, optical and electrical properties of $\text{Cu}_2\text{Zn}_{1-x}\text{Cd}_x\text{SnS}_4$ quinary alloys nanostructures deposited on porous silicon. <i>Microsystem Technologies</i> , 2016 , 22, 2893-2900	1.7	16

153	Effect of Cadmium Concentration on Structural, Optical, and Electrical Properties of Cu ₂ Zn _{1-x} Cd _x SnS ₄ Quinternary Alloy Nanofibres, Synthesized by Electrospinning Technique. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-11	3.2	10
152	Cadmium effect on structural properties of Cu ₂ Zn _{1-x} Cd _x SnS ₄ quaternary alloys nanostructures 2016 ,		1
151	Solar energy status in Iraq: Abundant or not? Steps forward. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 025905	2.5	13
150	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, 245303	2.5	25
149	Effects of Chemical Stirring Time on the Physical Properties for LiNbO ₃ Photonic Film Using of Optical Waveguide Applications. <i>Procedia Chemistry</i> , 2016 , 19, 531-538		6
148	Structural, electronic, elastic and thermodynamic properties of XFe ₄ P ₁₂ (X = Tb and Dy) filled skutterudite using FP-LMTO method. <i>Optik</i> , 2016 , 127, 7382-7393	2.5	10
147	First-Principle Investigation of Structural, Electronic and Magnetic Properties in Mn ₂ RhZ (Z = Si, Ge, and Sn) Heusler Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 1843-1850	1.5	63
146	Structural, elastic, thermodynamic and electronic properties of LuX (X = N, Bi and Sb) compounds: first principles calculations. <i>Phase Transitions</i> , 2016 , 89, 1236-1252	1.3	46
145	Fabrication, analysis and characterization of Cu ₂ Zn _{1-x} Cd _x SnS ₄ quaternary alloy nanostructures deposited on GaN. <i>Journal of Materials Science</i> , 2016 , 51, 6876-6885	4.3	17
144	Structural, electronic, bonding and thermo-elastic properties of orthorhombic and cubic CeO ₂ compound. <i>Chinese Journal of Physics</i> , 2016 , 54, 1-11	3.5	4
143	Structural, elastic, electronic and thermodynamic investigations of neptunium chalcogenides: First-principles calculations. <i>Chinese Journal of Physics</i> , 2016 , 54, 33-41	3.5	23
142	Characterization and analysis of wheat-like CdS nanostructures under temperature effect for solar cells applications. <i>Optik</i> , 2016 , 127, 8907-8915	2.5	18
141	First principle study of mechanical stability and thermodynamic properties of anti-fluorite Li ₂ O and Rb ₂ O under pressure and temperature effect. <i>Chinese Journal of Physics</i> , 2016 , 54, 678-694	3.5	31
140	Optoelectronic properties of naphtho[2, 1-b:6, 5-b']difuran derivatives for photovoltaic application: a computational study. <i>Journal of Molecular Modeling</i> , 2016 , 22, 248	2	18
139	Structural investigations through cobalt effect on ZnO nanostructures. <i>Optik</i> , 2016 , 127, 10102-10107	2.5	19
138	Ab initio method of optical investigations of CdS 1-x Te x alloys under quantum dots diameter effect. <i>Solar Energy</i> , 2015 , 115, 33-39	6.8	40
137	Structural, electronic and thermodynamic properties of half-metallic Co ₂ CrZ (Z=Ga, Ge and As) alloys: First-principles calculations. <i>Materials Science in Semiconductor Processing</i> , 2015 , 38, 126-136	4.3	12
136	Characterization of Cu ₂ Zn _{1-x} Cd _x SnS ₄ Nanostructures. <i>Advanced Materials Research</i> , 2015 , 1109, 171-175.	5.5	1

135	Structural Properties of Cu ₂ Zn _{1-x} Cd _x Sn ₄ Nanostructures. <i>Advanced Materials Research</i> , 2015 , 1109, 176-180	0.5	
134	Synthesis of SnO ₂ nanostructures employing Nd:YAG laser. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 725-730	2.6	13
133	Structural, elastic, electronic and optical properties of the quaternary nitridogallate LiCaGaN ₂ : First-principles study. <i>Materials Science in Semiconductor Processing</i> , 2015 , 40, 64-76	4.3	18
132	Structural, elastic, electronic and optical properties of new layered semiconductor BaGa ₂ P ₂ . <i>Optical Materials</i> , 2015 , 46, 122-130	3.3	8
131	Optical investigations of blue shift in ZnS quantum dots. <i>Superlattices and Microstructures</i> , 2015 , 88, 662-687	6.7	17
130	Predictive study of structural, electronic, magnetic and thermodynamic properties of XFeO ₃ (X = Ag, Zr and Ru) multiferroic materials in cubic perovskite structure: first-principles calculations. <i>Materials Science-Poland</i> , 2015 , 33, 402-413	0.6	27
129	Optical investigations of photonics lithium niobate. <i>Solar Energy</i> , 2015 , 120, 381-388	6.8	36
128	First-principles calculations for optical investigations of PbX (X = S, Te) compounds under quantum dots diameter effect. <i>Canadian Journal of Physics</i> , 2015 , 93, 1490-1494	1.1	7
127	Optical investigation of nanophotonic lithium niobate-based optical waveguide. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 121, 107-116	1.9	33
126	Physicochemical characterization of sewage sludge and green waste for agricultural utilization. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 1594-604	2.6	17
125	First-principles calculations of a half-metallic ferromagnet zinc blende Zn _{1-x} V _x Te. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 378, 41-49	2.8	34
124	First-principles prediction of the structural, elastic, thermodynamic, electronic and optical properties of Li ₄ Sr ₃ Ge ₂ N ₆ quaternary nitride. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 84-94	5.7	21
123	Investigating the Cherenkov light lateral distribution function for primary proton and iron nuclei in extensive air showers. <i>Physics of Particles and Nuclei Letters</i> , 2015 , 12, 751-756	0.5	2
122	Study of TiO ₂ Energy Gap Based Temperature Annealing for High Performance Solar Cells. <i>Applied Mechanics and Materials</i> , 2015 , 793, 425-429	0.3	
121	Effect of Copper Concentration on the Optical Properties of Cu ₂ Zn _{0.8} Cd _{0.2} Sn ₄ Pentary Alloy Nanostructures. <i>Advanced Materials Research</i> , 2015 , 1115, 373-377	0.5	2
120	Elastic and thermodynamic properties of the SiB ₂ O ₄ (B=Mg, Zn and Cd) cubic spinels: An ab initio FP-LAPW study. <i>Materials Science in Semiconductor Processing</i> , 2015 , 38, 192-202	4.3	18
119	Chalcogenides-based quantum dots: Optical investigation using first-principles calculations. <i>Materials Science in Semiconductor Processing</i> , 2015 , 39, 276-282	4.3	40
118	Half-metallic ferromagnetism in Be _{1-x} V _x Te alloys: an Ab-initio study. <i>Indian Journal of Physics</i> , 2015 , 89, 1251-1263	1.4	20

117	Analytical investigations of CdS nanostructures for optoelectronic applications. <i>Optik</i> , 2015 , 126, 5109-5114	1.4	22
116	Investigations of structural, elastic, electronic and thermodynamic properties of lutetium filled skutterudite LuFe ₄ P ₁₂ under pressure effect: FP-LMTO method. <i>Materials Science-Poland</i> , 2015 , 33, 867-878	0.6	1
115	FP-LAPW investigation of mechanical and thermodynamic properties of Na ₂ X (X = S and Se) under pressure and temperature effects. <i>Materials Science-Poland</i> , 2015 , 33, 649-659	0.6	9
114	Cadmium effect on optical properties of Cu ₂ Zn _{1-x} Cd _x SnS ₄ quaternary alloys nanostructures. <i>Solar Energy</i> , 2015 , 114, 39-50	6.8	44
113	Electronic and optical properties of the LiCdX (X = N, P, As and Sb) filled-tetrahedral compounds with the TranBlaha modified Becke-Johnson density functional. <i>Materials Research Bulletin</i> , 2015 , 64, 337-346	5.1	5
112	Structural, mechanical and electronic properties of sodium based fluoroperovskites NaXF ₃ (X=Mg, Zn) from first-principle calculations. <i>Materials Science in Semiconductor Processing</i> , 2015 , 33, 127-135	4.3	42
111	Band gap behavior of scandium aluminum phosphide and scandium gallium phosphide ternary alloys and superlattices. <i>Materials Science in Semiconductor Processing</i> , 2015 , 31, 493-500	4.3	11
110	Zinc Effect on Quantum Dots Potential of PbI ₂ Nanostructures. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2015 , 10, 705-710	1.3	8
109	Study of Cherenkov light lateral distribution function around the knee region in extensive air showers. <i>Serbian Astronomical Journal</i> , 2015 , 79-85	0.9	0
108	Morphology and optical investigations of ZnO pyramids and nanoflakes for optoelectronic applications. <i>Optik</i> , 2014 , 125, 2560-2564	2.5	24
107	Phase transition of Nowotny-Łuza NaZnX (X=P, As and Sb) compounds at high pressure: Theoretical investigation of structural, electronic and vibrational properties. <i>Computational Materials Science</i> , 2014 , 87, 187-197	3.2	16
106	Structural and optical investigations of In doped ZnO binary compound. <i>Materials Express</i> , 2014 , 4, 159-164	1.4	12
105	Structural, elastic, electronic and optical properties of the newly synthesized monoclinic Zintl phase BaIn ₂ P ₂ . <i>Solid State Sciences</i> , 2014 , 29, 12-23	3.4	37
104	Optical investigations of Zn _x Cd _{1-x} S nanostructures. <i>Optik</i> , 2014 , 125, 6958-6961	2.5	9
103	Optical properties of Cauliflower-like Bi ₂ O ₃ nanostructures by reactive pulsed laser deposition (PLD) technique. <i>Solar Energy</i> , 2014 , 107, 523-529	6.8	34
102	Structural, elastic, electronic and thermodynamic properties of uranium filled skutterudites UFe ₄ P ₁₂ : First principle method. <i>Materials Science in Semiconductor Processing</i> , 2014 , 27, 368-379	4.3	31
101	Review on the energy and renewable energy status in Iraq: The outlooks. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 816-827	16.2	21
100	Structural and elastic properties of TiN and AlN compounds: first-principles study. <i>Materials Science-Poland</i> , 2014 , 32, 220-227	0.6	6

99	Structural, elastic, electronic, chemical bonding and optical properties of Cu-based oxides ACuO (A=Li, Na, K and Rb): An ab initio study. <i>Computational Materials Science</i> , 2014 , 81, 561-574	3.2	22
98	Ab initio study of the structural and optoelectronic properties of the half-Heusler CoCrZ (Z = Al, Ga). <i>Canadian Journal of Physics</i> , 2014 , 92, 1105-1112	1.1	40
97	Copper substitution effect on the structural properties of nickel ferrites. <i>Ceramics International</i> , 2014 , 40, 14413-14419	5.1	49
96	Ab initio calculations of structural, elastic, and thermodynamic properties of HoX (X=N, O, S and Se). <i>Materials Science in Semiconductor Processing</i> , 2014 , 26, 205-217	4.3	11
95	First-principle investigations of structural, electronic and thermodynamic properties of CdS _{1-x} Sex ternary alloys: (0.0 x 1.0). <i>Materials Express</i> , 2014 , 4, 521-532	1.3	20
94	Extension of Cherenkov Light LDF Approximation for Yakutsk EAS Array. <i>Journal of Astrophysics</i> , 2014 , 2014, 1-6		4
93	Structural and Optical Properties of CdS Nanostructures 2014 , 147-163		
92	Chalcogenide-Based Nanodevices for Renewable Energy 2014 , 269-287		
91	Analysis and Structural Investigations of CdS/Quartz Nanostructures. <i>Advanced Materials Research</i> , 2014 , 925, 374-378	0.5	2
90	Spin Coating Effect on Structural and Morphological Properties for CdS/Glass Nanostructures. <i>Advanced Materials Research</i> , 2014 , 925, 175-179	0.5	
89	Thermal Degradation of Plastic Wastes (PP, LDPE) Using Metal Particles, Metal Oxides and Metal Nano Particles as a Catalyst. <i>Advanced Materials Research</i> , 2014 , 925, 359-363	0.5	1
88	Application of Gold Nanoparticles for Electrochemical DNA Biosensor. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-7	3.2	19
87	First-Principles Calculations of Structural, Electronic, Optical, and Thermodynamic Properties of CdS, CdTe and Their Ternary Alloys CdS _{1-x} Tex(0.0 ≤ x ≤ 1.0). <i>Acta Physica Polonica A</i> , 2014 , 125, 1110-1117	0.6	17
86	Removal of Benzene from Aqueous Solution Using Carbon Nanotube Synthesized from Fuel Oil Waste. <i>Advanced Materials Research</i> , 2014 , 925, 105-109	0.5	1
85	Nitrogen Effect on the Frequency Shift in Indium-GaAsN Quantum Wells Laser. <i>Journal of Physics: Conference Series</i> , 2014 , 553, 012009	0.3	1
84	FP-LMTO study of structural, electronic, thermodynamic and optical properties of MgxCd _{1-x} Se alloys. <i>Materials Science-Poland</i> , 2014 , 32, 719-728	0.6	2
83	First-principles investigation on structural, elastic, electronic and thermodynamic properties of filled skutterudite PrFe ₄ P ₁₂ compound for thermoelectric applications. <i>Molecular Simulation</i> , 2014 , 40, 1236-1243	2	18
82	Nanocoral PbS Films Schottky Solar Cell. <i>Advanced Materials Research</i> , 2014 , 925, 605-609	0.5	3

81	Evaluation of the Hourly Global Solar Radiation on a Horizontal Plane for Two Sites in Algeria. <i>Advanced Materials Research</i> , 2014 , 925, 641-645	0.5	1
80	Structural Properties of Pbl ₂ Thin Film. <i>Advanced Materials Research</i> , 2014 , 879, 175-179	0.5	2
79	Structural Properties of Zn-Pbl ₂ Nanostructures. <i>Advanced Materials Research</i> , 2014 , 925, 164-168	0.5	1
78	Chalcogenide nanostructures: Topography, synthesis, properties, and applications. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 013109	2.5	10
77	Characterization of Nanostructured Heterojunction Solar Cells of CdS/Cd ₂ x(CuIn) _{1-x} S ₂ Grown by Chemical Spray Pyrolysis. <i>Advanced Materials Research</i> , 2014 , 925, 585-589	0.5	3
76	Modeling of the Electronic Properties of Hexagonal Semiconductors. <i>Advanced Materials Research</i> , 2014 , 925, 364-368	0.5	
75	Structural and optical insights to enhance solar cell performance of CdS nanostructures. <i>Energy Conversion and Management</i> , 2014 , 82, 238-243	10.6	60
74	Electronic structure, Fermi surface topology and spectroscopic optical properties of LaBaCo ₂ O _{5.5} compound. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 363, 133-139	2.8	4
73	Structural properties of Sb- and Te-based binary compounds: Spin-orbit effect. <i>Materials Science-Poland</i> , 2013 , 31, 133-138	0.6	3
72	Structural, elastic, electronic and thermodynamic properties of the filled skutterudite CeOs ₄ Sb ₁₂ determined by density functional theory. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 1508-1516	4.3	23
71	Structural and optoelectronic properties of NiTiX and CoVX (X = Sb and Sn) half-Heusler compounds: An ab initio study. <i>Optik</i> , 2013 , 124, 570-574	2.5	52
70	Elastic and thermodynamic properties of ZnSc ₂ S ₄ and CdSc ₂ S ₄ compounds under pressure and temperature effects. <i>Computational Materials Science</i> , 2013 , 70, 107-113	3.2	18
69	Modeling of Structural Properties of Hexagonal Semiconductors. <i>Procedia Engineering</i> , 2013 , 53, 707-709		1
68	Optical Properties of GaN Nanostructures for Optoelectronic Applications. <i>Procedia Engineering</i> , 2013 , 53, 400-404		12
67	Optoelectronic properties of GaAs and AlAs under temperature effect. <i>Optik</i> , 2013 , 124, 2128-2130	2.5	6
66	Characteristics of Nanostructure Silicon Photodiode using Laser Assisted Etching. <i>Procedia Engineering</i> , 2013 , 53, 393-399		6
65	Structural and optical properties of Pbl ₂ nanostructures obtained using the thermal evaporation method. <i>Canadian Journal of Physics</i> , 2013 , 91, 826-832	1.1	6
64	FP-LMTO method to calculate the structural, thermodynamic and optoelectronic properties of SixGe _{1-x} C alloys. <i>Molecular Physics</i> , 2013 , 111, 3208-3217	1.7	7

63	Electronic and optical properties of $(Al_x Ga_{1-x})_1 Mn_y As$ single crystal: a new candidate for integrated optical isolators and spintronics. <i>Journal of Materials Science</i> , 2013 , 48, 758-764	4.3	11
62	Effect of Roughness of Hypo-and Hyper-Eutectic Al-Si Piston Alloy on Wear Characteristics under Lubrication. <i>Procedia Engineering</i> , 2013 , 53, 616-623		14
61	External temperature and pressure effects on thermodynamic properties and mechanical stability of yttrium chalcogenides YX (X=S, Se and Te). <i>Physica B: Condensed Matter</i> , 2013 , 428, 78-88	2.8	23
60	Structural investigation of Si _{0.5} Ge _{0.5} alloy for optoelectronic applications: Ab initio study. <i>Optik</i> , 2013 , 124, 5674-5678	2.5	6
59	Structural, Analysis and Optical Studies of Cadmium Sulfide Nanostructured. <i>Procedia Engineering</i> , 2013 , 53, 217-224		14
58	XPS and optical studies of different morphologies of ZnO nanostructures prepared by microwave methods. <i>Ceramics International</i> , 2013 , 39, 2283-2292	5.1	596
57	Differential equations to calculate the ionicity factor of hexagonal structure semiconductors. <i>Superlattices and Microstructures</i> , 2013 , 53, 24-30	2.8	4
56	Structural and Morphological Studies of Cadmium Sulfide Nanostructures. <i>Advanced Materials Research</i> , 2013 , 795, 228-232	0.5	2
55	Influence of Current Density on Porous Silicon Characteristics. <i>Advanced Materials Research</i> , 2013 , 795, 219-222	0.5	
54	Confirmation of bulk modulus model of III-V compounds under pressure effect using tight-binding method. <i>Optik</i> , 2012 , 123, 989-992	2.5	8
53	Nano and micro porous GaN characterization using image processing method. <i>Optik</i> , 2012 , 123, 1074-1078		12
52	Characterisation, analysis and optical properties of nanostructure ZnO using the sol-gel method. <i>Micro and Nano Letters</i> , 2012 , 7, 163	0.9	26
51	Further optical properties of CdX (X=S, Te) compounds under quantum dot diameter effect: Ab initio method. <i>Renewable Energy</i> , 2012 , 45, 232-236	8.1	24
50	First-principles calculations to investigate optical properties of $ByAl_xIn_{1-x}N$ alloys for optoelectronic devices. <i>Superlattices and Microstructures</i> , 2012 , 51, 404-411	2.8	14
49	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	2.8	35
48	Structural and electronic properties of zinc blende $B_xAl_{1-x}N_yP_{1-y}$ quaternary alloys via first-principle calculations. <i>Physica B: Condensed Matter</i> , 2012 , 407, 426-432	2.8	13
47	First-principles calculations of the structural, electronic and optical properties of cubic $B_xGa_{1-x}As$ alloys. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1292-1300	2.8	20
46	Structural and electronic properties of GaN_xAs_{1-x} alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 106, 687-696	2.6	28

45	First-principle calculations to investigate the elastic and thermodynamic properties of RBRh3 (R = Sc, Y and La) perovskite compounds. <i>Molecular Physics</i> , 2012 , 110, 121-128	1.7	23
44	An ab initio density functional study of the optical functions of 9-Methyl-3-Thiophen-2-Yl-Thieno [3,2e] [1,2,4] Thiazolo [4,3c] Pyrimidine-8-Carboxylic Acid Ethyl Ester crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 95, 582-8	4.4	6
43	Investigation of the optical properties of Mg(OH) ₂ and MgO nanostructures obtained by microwave-assisted methods. <i>Journal of Alloys and Compounds</i> , 2012 , 521, 71-76	5.7	67
42	Structural and optical investigations of cadmium sulfide nanostructures for optoelectronic applications. <i>Solar Energy</i> , 2012 , 86, 3234-3240	6.8	36
41	Optical Properties of Si Quantum Dot Potential under Pressure Effect. <i>Advanced Materials Research</i> , 2012 , 545, 32-37	0.5	
40	STUDY BY AES AND EELS OF InP, InSb, InPO ₄ AND In _x Ga _{1-x} As SUBMITTED TO ELECTRON IRRADIATION. <i>Surface Review and Letters</i> , 2012 , 19, 1250002	1.1	4
39	Investigated stiffness of high performance superconductivity with nanoceria incorporated into polycrystalline magnesium diboride. <i>Micro and Nano Letters</i> , 2012 , 7, 867	0.9	4
38	Calculated optical properties of GaX (X=P, As, Sb) under hydrostatic pressure. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 1159-1167	2.6	22
37	New optical features to enhance solar cell performance based on porous silicon surfaces. <i>Applied Surface Science</i> , 2011 , 257, 6112-6117	6.7	62
36	Investigated optical and elastic properties of Porous silicon: Theoretical study. <i>Materials & Design</i> , 2011 , 32, 4088-4093		13
35	Investigated optical studies of Si quantum dot. <i>Solar Energy</i> , 2011 , 85, 2283-2287	6.8	18
34	Stiffness properties of porous silicon nanowires fabricated by electrochemical and laser-induced etching. <i>Superlattices and Microstructures</i> , 2011 , 50, 119-127	2.8	16
33	Electronic and Positron Properties of Zinc-Blende MgTe, CdTe and their Alloy Mg _{1-x} Cd _x Te. <i>Advanced Materials Research</i> , 2011 , 264-265, 580-585	0.5	1
32	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	6.8	57
31	Electronic properties of orthorhombic LiGaS ₂ and LiGaSe ₂ . <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 315-320	2.6	22
30	Structural, elastic, electronic, optical and thermal properties of c-SiGe ₂ N ₄ . <i>European Physical Journal B</i> , 2009 , 71, 185-194	1.2	11
29	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	3.2	123
28	Optical investigations using ultra-soft pseudopotential calculations of Si _{0.5} Ge _{0.5} alloy. <i>Solid State Communications</i> , 2008 , 148, 521-524	1.6	51

27	Correlation between the Bulk Modulus and the Metallicity in Semiconductors. <i>Research Letters in Materials Science</i> , 2007 , 2007, 1-3		2
26	First-principles calculations of the elastic, electronic, and optical properties of the filled skutterudites CeFe ₄ P ₁₂ and ThFe ₄ P ₁₂ . <i>Physical Review B</i> , 2007 , 75,	3.3	62
25	First-principle study of structural, electronic and elastic properties of beryllium chalcogenides BeS, BeSe and BeTe. <i>Computational Materials Science</i> , 2006 , 37, 292-299	3.2	71
24	Full-potential calculations of structural, elastic and electronic properties of MgAl ₂ O ₄ and ZnAl ₂ O ₄ compounds. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005 , 344, 271-279	2.3	58
23	Correlation between the bulk modulus and the transition pressure in semiconductors. <i>Materials Letters</i> , 2005 , 59, 2032-2034	3.3	26
22	Empirical formula relating the bulk modulus to the lattice constant in tetrahedral semiconductors. <i>Materials Chemistry and Physics</i> , 2004 , 87, 14-17	4.4	30
21	Empirical pseudopotential study of electronic, positron, and structural properties of Ga _{1-x} Al _x N. <i>Materials Chemistry and Physics</i> , 2004 , 88, 339-347	4.4	6
20	Structural phase transition of boron nitride compound. <i>Solid State Communications</i> , 2004 , 132, 465-470	1.6	24
19	The pressure effect of the bulk modulus seen by the charge density in CdX compounds. <i>Materials Chemistry and Physics</i> , 2003 , 78, 625-629	4.4	23
18	Pressure effect on electronic band structure of III-V compounds. <i>Materials Chemistry and Physics</i> , 2003 , 80, 34-38	4.4	8
17	Electronic and optical properties of Zn Cd _{1-x} Be. <i>Materials Chemistry and Physics</i> , 2003 , 82, 49-54	4.4	44
16	Pressure effect on electronic and positron charge densities of Zn _{0.5} Cd _{0.5} Se. <i>Physica B: Condensed Matter</i> , 2003 , 325, 362-371	2.8	5
15	Calculation of structural, optical and electronic properties of ZnS, ZnSe, MgS, MgSe and their quaternary alloy Mg _{1-x} Zn _x SySe _{1-y} . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 100, 163-171	3.1	73
14	Effect of spin orbit on the electronic properties of zinc-blende compounds. <i>Journal of Applied Physics</i> , 2003 , 94, 4502-4506	2.5	16
13	Electronic and positron properties of zinc-blende structure of GaN, AlN, and their alloy Ga _{1-x} Al _x N. <i>Journal of Applied Physics</i> , 2003 , 93, 9730-9736	2.5	19
12	Calculation of bulk moduli of semiconductor compounds. <i>Physica B: Condensed Matter</i> , 2002 , 322, 179-182	8	30
11	The effect of pressure on the ionicity of In-V compounds. <i>Physica B: Condensed Matter</i> , 2002 , 324, 173-178	8	11
10	Correlation between the ionicity character and the heteropolar band gap in semiconductors. <i>Physica B: Condensed Matter</i> , 2001 , 301, 295-298	2.8	43

9	Correlation between the bulk modulus and the charge density in semiconductors. <i>Physica B: Condensed Matter</i> , 2001 , 305, 186-190	2.8	35
8	Some empirical formulas for calculating the ionicity character in semiconductors. <i>Materials Chemistry and Physics</i> , 2000 , 65, 117-119	4.4	9
7	First-principles calculations of structural, elastic, electronic, and optical properties of CaYP (Y = Cu, Ag) Heusler alloys. <i>Emergent Materials</i> ,1	3.5	0
6	Theoretical investigations of structural, mechanical, electronic and optical properties of NaScSi alloy. <i>Emergent Materials</i> ,1	3.5	7
5	Theoretical investigation of structural, electronic, elastic, magnetic, thermodynamic, and thermoelectric properties of Ru ₂ MnNb Heusler alloy: FP-LMTO method. <i>Emergent Materials</i> ,1	3.5	0
4	Electronic and magnetic investigation of half-metallic ferrimagnetic full-Heusler Mn ₂ IrGe. <i>Emergent Materials</i> ,1	3.5	2
3	Structural, mechanical, magnetic, electronic, and thermal investigations of Ag ₂ YB (Y = Nd, Sm, Gd) full-Heusler alloys. <i>Emergent Materials</i> ,1	3.5	4
2	Investigation of structural, elastic, electronic, and magnetic proprieties for X ₂ LuSb (X = Mn and Ir) full-Heusler alloys. <i>Emergent Materials</i> ,1	3.5	2
1	Investigation of the Structural, Elastic, Electronic, and Optical Properties of Half-Heusler CaMgZ (Z = C, Si, Ge, Sn, Pb) Compounds. <i>Journal of Electronic Materials</i> ,1	1.9	2