Yarub Al-Douri

List of Publications by Citations

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	XPS and optical studies of different morphologies of ZnO nanostructures prepared by microwave methods. *Ceramics International*, **2013**, 39, 2283-2292	5.1	596
277	FP-APW+lo calculations of the elastic properties in zinc-blende III-P compounds under pressure effects. *Computational Materials Science*, **2009**, 45, 474-479	3.2	123
276	Structural, magnetic, electronic and mechanical properties of full-Heusler alloys Co2YAl (Y = Fe, Ti): First principles calculations with different exchange-correlation potentials. *Journal of Magnetism and Magnetic Materials*, **2018**, 448, 208-220	2.8	116
275	Calculation of structural, optical and electronic properties of ZnS, ZnSe, MgS, MgSe and their quaternary alloy Mg1−xZnxSySe1−y. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 100, 163-171	3.1	73
274	First-principles calculations to investigate magnetic and thermodynamic properties of new multifunctional full-Heusler alloy Co2TaGa. *Indian Journal of Physics*, **2020**, 94, 767-777	1.4	73
273	First-principle study of structural, electronic and elastic properties of beryllium chalcogenides BeS, BeSe and BeTe. *Computational Materials Science*, **2006**, 37, 292-299	3.2	71
272	Investigation of the optical properties of Mg(OH)2 and MgO nanostructures obtained by microwave-assisted methods. *Journal of Alloys and Compounds*, **2012**, 521, 71-76	5.7	67
271	Half-Metallic Ferrimagnetic Characteristics of Co2YZ (Z = P, As, Sb, and Bi) New Full-Heusler Alloys: a DFT Study. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 241-250	1.5	65
270	First-Principle Investigation of Structural, Electronic and Magnetic Properties in Mn2RhZ (Z = Si, Ge, and Sn) Heusler Alloys. *Journal of Superconductivity and Novel Magnetism*, **2016**, 29, 1843-1850	1.5	63
269	New optical features to enhance solar cell performance based on porous silicon surfaces. *Applied Surface Science*, **2011**, 257, 6112-6117	6.7	62
268	First-principles calculations of the elastic, electronic, and optical properties of the filled skutterudites CeFe4P12 and ThFe4P12. *Physical Review B*, **2007**, 75,	3.3	62
267	Electronic and thermoelectric properties of the layered BaFAgCh (Ch = S, Se and Te): First-principles study. *Journal of Alloys and Compounds*, **2018**, 759, 32-43	5.7	62
266	Structural and optical insights to enhance solar cell performance of CdS nanostructures. *Energy Conversion and Management*, **2014**, 82, 238-243	10.6	60
265	First-principles calculations to investigate structural and thermodynamic properties of Ni2LaZ (Z = As, Sb and Bi) Heusler alloys. *Indian Journal of Physics*, **2020**, 94, 1733-1747	1.4	60
264	First-principles calculations of pressure and temperature dependence of thermodynamic properties of anti-perovskite BiNBa 3 compound. *Chinese Journal of Physics*, **2017**, 55, 2144-2155	3.5	59
263	Full-potential calculations of structural, elastic and electronic properties of MgAl2O4 and ZnAl2O4 compounds. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 344, 271-279	2.3	58
262	An ab initio study of the electronic structure and optical properties of CdS1−xTex alloys. *Solar Energy*, **2010**, 84, 1979-1984	6.8	57

261	First-principle calculations of structural, electronic and magnetic investigations of Mn2RuGe1-xSnx quaternary Heusler alloys. *Chinese Journal of Physics*, **2018**, 56, 567-573	3.5	54
260	Structural, morphological and electrical properties of Cd2+doped MgFe2-xO4 ferrite nanoparticles. *Journal of Alloys and Compounds*, **2017**, 726, 179-186	5.7	54
259	First-Principles Calculations to Investigate Structural, Electronic, Elastic, Magnetic, and Thermodynamic Properties of Full-Heusler Rh2MnZ (Z = Zr, Hf). *Journal of Superconductivity and Novel Magnetism*, **2021**, 34, 269-283	1.5	54
258	First-principles computations of (hbox {Y}_{x}hbox {Ga}_{1-{x}})As-ternary alloys: a study on structural, electronic, optical and elastic properties. *Bulletin of Materials Science*, **2020**, 43, 1	1.7	53
257	Structural and optoelectronic properties of NiTiX and CoVX (X = Sb and Sn) half-Heusler compounds: An ab initio study. *Optik*, **2013**, 124, 570-574	2.5	52
256	Structural, electronic, optical and thermodynamic investigations of NaXF3 (X = Ca and Sr): First-principles calculations. *Chinese Journal of Physics*, **2018**, 56, 131-144	3.5	52
255	Electronic, optical and thermoelectric investigations of Zintl phase AE3AlAs3 (AE = Sr, Ba): First-principles calculations. *Chinese Journal of Physics*, **2018**, 56, 870-879	3.5	51
254	Optical investigations using ultra-soft pseudopotential calculations of Si0.5Ge0.5 alloy. *Solid State Communications*, **2008**, 148, 521-524	1.6	51
253	Elastic, electronic, optical and thermodynamic properties of Ba3Ca2Si2N6 semiconductor: First-principles predictions. *Physica B: Condensed Matter*, **2020**, 589, 412213	2.8	50
252	Copper substitution effect on the structural properties of nickel ferrites. *Ceramics International*, **2014**, 40, 14413-14419	5.1	49
251	First-Principles Calculations to Investigate the Refractive Index and Optical Dielectric Constant of Na3SbX4 (X = S, Se) Ternary Chalcogenides. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1900131	1.3	46
250	Structural, elastic, thermodynamic and electronic properties of LuX (X = N, Bi and Sb) compounds: first principles calculations. *Phase Transitions*, **2016**, 89, 1236-1252	1.3	46
249	A needle-like Cu2CdSnS4 alloy nanostructure-based integrated electrochemical biosensor for detecting the DNA of Dengue serotype 2. *Mikrochimica Acta*, **2017**, 184, 2211-2218	5.8	45
248	Cadmium effect on optical properties of Cu2Zn1−xCdxSnS4 quinternary alloys nanostructures. *Solar Energy*, **2015**, 114, 39-50	6.8	44
247	Electronic and optical properties of Zn Cd1−Se. *Materials Chemistry and Physics*, **2003**, 82, 49-54	4.4	44
246	Correlation between the ionicity character and the heteropolar band gap in semiconductors. *Physica B: Condensed Matter*, **2001**, 301, 295-298	2.8	43
245	First-principles Calculations of Structural, Magnetic Electronic and Optical Properties of Rare-earth Metals TbX (X=N, O, S, Se). *Journal of Superconductivity and Novel Magnetism*, **2017**, 30, 3471-3479	1.5	42
244	Structural, mechanical and electronic properties of sodium based fluoroperovskites NaXF3 (X=Mg, Zn) from first-principle calculations. *Materials Science in Semiconductor Processing*, **2015**, 33, 127-135	4.3	42

243	Electronic, optical, elastic, thermoelectric and thermodynamic properties of the spinel oxides ZnRh2O4 and CdRh2O4. *Journal of Alloys and Compounds*, **2019**, 774, 299-314	5.7	41
242	Ab initio method of optical investigations of CdS 1−x Te x alloys under quantum dots diameter effect. *Solar Energy*, **2015**, 115, 33-39	6.8	40
241	First-Principle Calculations of Structural, Elastic, and Electronic Properties of Intermetallic Rare Earth R2Ni2Pb (R = Ho, Lu, and Sm) Compounds. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 395-403	1.5	40
240	Ab initio study of the structural and optoelectronic properties of the half-Heusler CoCrZ (Z = Al, Ga). *Canadian Journal of Physics*, **2014**, 92, 1105-1112	1.1	40
239	Chalcogenides-based quantum dots: Optical investigation using first-principles calculations. *Materials Science in Semiconductor Processing*, **2015**, 39, 276-282	4.3	40
238	Structural, Elastic, Electronic and Optical Properties of LaOAgS-Type Silver Fluoride Chalcogenides: First-Principles Study. *Journal of Electronic Materials*, **2017**, 46, 4539-4556	1.9	39
237	Structural, Elastic, Thermodynamic, Electronic, and Magnetic Investigations of Full-Heusler Compound Ag2CeAl: FP-LAPW Method. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 3183-3192	1.5	38
236	Electronic and thermoelectric properties of the layered Zintl phase CaIn2P2: first-principles calculations. *Philosophical Magazine*, **2020**, 100, 3023-3039	1.6	38
235	Challenges in improving the performance of eddy current testing: Review. *Measurement and Control*, **2019**, 52, 46-64	1.5	38
234	Structural, elastic, electronic and optical properties of the newly synthesized monoclinic Zintl phase BaIn2P2. *Solid State Sciences*, **2014**, 29, 12-23	3.4	37
233	Electronic and Magnetic Properties of Co2CrGa1− Si x Heusler Alloys. *Journal of Superconductivity and Novel Magnetism*, **2017**, 30, 421-424	1.5	37
232	Optical investigations of photonics lithium niobate. *Solar Energy*, **2015**, 120, 381-388	6.8	36
231	Structural and optical investigations of cadmium sulfide nanostructures for optoelectronic applications. *Solar Energy*, **2012**, 86, 3234-3240	6.8	36
230	Density functional study of optical properties of beryllium chalcogenides compounds in nickel arsenide B8 structure. *Physica B: Condensed Matter*, **2012**, 407, 286-296	2.8	35
229	Correlation between the bulk modulus and the charge density in semiconductors. *Physica B: Condensed Matter*, **2001**, 305, 186-190	2.8	35
228	First-principles calculations of a half-metallic ferromagnet zinc blende Zn1−VxTe. *Journal of Magnetism and Magnetic Materials*, **2015**, 378, 41-49	2.8	34
227	Optical properties of Cauliflower-like Bi 2 O 3 nanostructures by reactive pulsed laser deposition (PLD) technique. *Solar Energy*, **2014**, 107, 523-529	6.8	34
226	Structural, dielectric and low temperature magnetic response of Zn doped cobalt ferrite nanoparticles. *AIP Advances*, **2019**, 9, 055202	1.5	33

225	Optical investigation of nanophotonic lithium niobate-based optical waveguide. *Applied Physics B: Lasers and Optics*, **2015**, 121, 107-116	1.9	33
224	Structural, elastic, electronic and thermodynamic properties of uranium filled skutterudites UFe4P12: First principle method. *Materials Science in Semiconductor Processing*, **2014**, 27, 368-379	4.3	31
223	Structural, elastic and lattice dynamical properties of the alkali metal tellurides: First-principles study. *Physica B: Condensed Matter*, **2017**, 521, 204-214	2.8	31
222	First-principles predictions of the structural, electronic, optical and elastic properties of the zintl-phases AE3GaAs3 (AE = Sr, Ba). *Solid State Sciences*, **2021**, 114, 106563	3.4	31
221	First principle study of mechanical stability and thermodynamic properties of anti-fluorite Li 2 O and Rb 2 O under pressure and temperature effect. *Chinese Journal of Physics*, **2016**, 54, 678-694	3.5	31
220	GaNO colloidal nanoparticles synthesis by nanosecond pulsed laser ablation: Laser fluence dependent optical absorption and structural properties. *Powder Technology*, **2017**, 320, 457-461	5.2	30
219	Empirical formula relating the bulk modulus to the lattice constant in tetrahedral semiconductors. *Materials Chemistry and Physics*, **2004**, 87, 14-17	4.4	30
218	Calculation of bulk moduli of semiconductor compounds. *Physica B: Condensed Matter*, **2002**, 322, 179-182	2.8	30
217	Doping-Induced Half-Metallic Ferromagnetism in Vanadium and Chromium-Doped Alkali Oxides K2O and Rb2O: Ab Initio Method. *Journal of Superconductivity and Novel Magnetism*, **2017**, 30, 2197-2210	1.5	28
216	Gd impurities effect on (hbox {Co}_{2}hbox {CrSi}) alloy: first-principle calculations. *Bulletin of Materials Science*, **2018**, 41, 1	1.7	28
215	Structural and electronic properties of GaN x As1 alloys. *Applied Physics A: Materials Science and Processing*, **2012**, 106, 687-696	2.6	28
214	Fabrication and characterizations of Al nanoparticles doped ZnO nanostructures-based integrated electrochemical biosensor. *Journal of Materials Research and Technology*, **2020**, 9, 857-867	5.5	28
213	Improved efficiency of Cu(In,Ga)Se2 thinfilm solar cells using a buffer layer alternative to CdS. *Solar Energy*, **2019**, 178, 150-156	6.8	28
212	Predictive study of structural, electronic, magnetic and thermodynamic properties of XFeO3 (X = Ag, Zr and Ru) multiferroic materials in cubic perovskite structure: first-principles calculations. *Materials Science-Poland*, **2015**, 33, 402-413	0.6	27
211	Ultrasonic effect on optical, structural, topographical and morphological studies of Cu 2 CdSnS 4 quaternary alloy nanostructures. *Journal of Alloys and Compounds*, **2016**, 686, 883-895	5.7	26
210	Characterisation, analysis and optical properties of nanostructure ZnO using the sol gel method. *Micro and Nano Letters*, **2012**, 7, 163	0.9	26
209	Correlation between the bulk modulus and the transition pressure in semiconductors. *Materials Letters*, **2005**, 59, 2032-2034	3.3	26
208	Synthesis and evaluation of the structural, optical, and antibacterial properties of copper oxide nanoparticles. *Applied Physics A: Materials Science and Processing*, **2019**, 125, 1	2.6	25

207	Structural, Mechanical and Thermodynamic Properties under Pressure Effect of Rubidium Telluride: First Principle Calculations. *Archives of Metallurgy and Materials*, **2017**, 62, 865-871		25
206	The Elastic, Electronic and Thermodynamic Properties of a New Cd Based Full Heusler Compounds - A Theoretical Investigation Using DFT Based FP-LMTO Approach. *Acta Physica Polonica A*, **2019**, 136, 127-134	0.6	25
205	Structural, elastic, electronic, magnetic, optical, and thermoelectric properties of the diamond-like quaternary semiconductor CuMn2InSe4. *Journal of Superconductivity and Novel Magnetism*, **2020**, 33, 1091-1102	1.5	25
204	Two symmetric n-type interfaces SrTiO3/LaAlO3 in perovskite: Electronic properties from density functional theory. *Journal of Applied Physics*, **2016**, 119, 245303	2.5	25
203	Aluminium nanoparticles size effect on the optical and structural properties of ZnO nanostructures synthesized by spin-coating technique. *Results in Physics*, **2017**, 7, 1190-1197	3.7	24
202	Morphology and optical investigations of ZnO pyramids and nanoflakes for optoelectronic applications. *Optik*, **2014**, 125, 2560-2564	2.5	24
201	Further optical properties of CdX (X=S, Te) compounds under quantum dot diameter effect: Ab initio method. *Renewable Energy*, **2012**, 45, 232-236	8.1	24
200	Structural phase transition of boron nitride compound. *Solid State Communications*, **2004**, 132, 465-470	1.6	24
199	Structural, electronic and thermodynamic investigation of Ag2GdSi, Ag2GdSn and Ag2Gd Pb Heusler alloys: First-principles calculations. *Materialpruefung/Materials Testing*, **2021**, 63, 537-542	1.9	24
198	Pressure and temperature dependence of the structural, elastic and thermodynamic properties of potassium telluride: First-principles calculations. *Chinese Journal of Physics*, **2017**, 55, 769-779	3.5	23
197	Structural, elastic, electronic and thermodynamic properties of the filled skutterudite CeOs4Sb12 determined by density functional theory. *Materials Science in Semiconductor Processing*, **2013**, 16, 1508-1516	4.2	23
196	External temperature and pressure effects on thermodynamic properties and mechanical stability of yttrium chalcogenides YX (X=S, Se and Te). *Physica B: Condensed Matter*, **2013**, 428, 78-88	2.8	23
195	First-principle calculations to investigate the elastic and thermodynamic properties of RBRh3 (R = Sc, Y and La) perovskite compounds. *Molecular Physics*, **2012**, 110, 121-128	1.7	23
194	The pressure effect of the bulk modulus seen by the charge density in CdX compounds. *Materials Chemistry and Physics*, **2003**, 78, 625-629	4.4	23
193	Structural, elastic, electronic and thermodynamic investigations of neptunium chalcogenides: First-principles calculations. *Chinese Journal of Physics*, **2016**, 54, 33-41	3.5	23
192	Structural, elastic, electronic, chemical bonding and optical properties of Cu-based oxides ACuO (A=Li, Na, K and Rb): An ab initio study. *Computational Materials Science*, **2014**, 81, 561-574	3.2	22
191	Analytical investigations of CdS nanostructures for optoelectronic applications. *Optik*, **2015**, 126, 5109-5114	2.5	22
190	Calculated optical properties of GaX (X=P, As, Sb) under hydrostatic pressure. *Applied Physics A: Materials Science and Processing*, **2011**, 104, 1159-1167	2.6	22

189	Electronic properties of orthorhombic LiGaS2 and LiGaSe2. *Applied Physics A: Materials Science and Processing*, **2009**, 94, 315-320	2.6	22
188	First-principles calculations to investigate the structural, electronic and optical properties of Zn1−MgxTe ternary alloys. *Chinese Journal of Physics*, **2017**, 55, 1018-1031	3.5	21
187	Effect of nitrogen doping on structural and optical properties of MgxZn1-xO ternary alloys. *Optical Materials*, **2019**, 89, 554-558	3.3	21
186	First-principles prediction of the structural, elastic, thermodynamic, electronic and optical properties of Li4Sr3Ge2N6 quaternary nitride. *Journal of Alloys and Compounds*, **2015**, 618, 84-94	5.7	21
185	Electronic and Magnetic Investigations of Rare-Earth Tm-doped AlGaN Ternary Alloy. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 1767-1771	1.5	21
184	Review on the energy and renewable energy status in Iraq: The outlooks. *Renewable and Sustainable Energy Reviews*, **2014**, 39, 816-827	16.2	21
183	Optical properties of (Pb 1- x Mn x S) 1- y Fe y materials from first-principles calculations. *Chinese Journal of Physics*, **2017**, 55, 1032-1043	3.5	20
182	Detecting the DNA of dengue serotype 2 using aluminium nanoparticle doped zinc oxide nanostructure: Synthesis, analysis and characterization. *Journal of Materials Research and Technology*, **2020**, 9, 5515-5523	5.5	20
181	Synthesis, purification and microstructural characterization of nickel doped carbon nanotubes for spintronic applications. *Ceramics International*, **2016**, 42, 5600-5606	5.1	20
180	First-principle investigations of structural, electronic and thermodynamic properties of CdS1−Sex ternary alloys: (0.0 x 1.0). *Materials Express*, **2014**, 4, 521-532	1.3	20
179	First-principles calculations of the structural, electronic and optical properties of cubic BxGa1−As alloys. *Physica B: Condensed Matter*, **2012**, 407, 1292-1300	2.8	20
178	Half-metallic ferromagnetism in Be1− V x Te alloys: an Ab-initio study. *Indian Journal of Physics*, **2015**, 89, 1251-1263	1.4	20
177	Synthesis of carbon-based quantum dots from starch extracts: Optical investigations. *Luminescence* , **2018**, 33, 260-266	2.5	19
176	Comparative study of Fe doped ZnO based diluted and condensed magnetic semiconductors in wurtzite and zinc-blende structures by first-principles calculations. *Materials Science in Semiconductor Processing*, **2016**, 43, 123-128	4.3	19
175	XRD Analysis and Morphological Studies of Spin Coated LiNbO3 Nano Photonic Crystal Prepared for Optical Waveguide Application. *Advanced Materials Research*, **2016**, 1133, 457-461	0.5	19
174	Application of Gold Nanoparticles for Electrochemical DNA Biosensor. *Journal of Nanomaterials*, **2014**, 2014, 1-7	3.2	19
173	Electronic and positron properties of zinc-blende structure of GaN, AlN, and their alloy Ga1−AlxN. *Journal of Applied Physics*, **2003**, 93, 9730-9736	2.5	19
172	Structural investigations through cobalt effect on ZnO nanostructures. *Optik*, **2016**, 127, 10102-10107	2.5	19

171	Nanosecond pulsed laser ablation to synthesize GaO colloidal nanoparticles: Optical and structural properties. *Optik*, **2019**, 178, 337-342	2.5	19
170	Synthesis and Characterization of Cu2CdSnS4 Quaternary Alloy Nanostructures. *International Journal of Electrochemical Science*, **2018**, 6693-6707	2.2	19
169	Structural, elastic, electronic and optical properties of the novel quaternary diamond-like semiconductors Cu2MgSiS4 and Cu2MgGeS4. *Solid State Sciences*, **2017**, 70, 21-35	3.4	18
168	Structural, elastic, electronic and optical properties of the quaternary nitridogallate LiCaGaN2: First-principles study. *Materials Science in Semiconductor Processing*, **2015**, 40, 64-76	4.3	18
167	Structural, electronic, elastic, optical and thermodynamic properties of copper halides CuCl, CuBr and their ternary alloys CuCl1Br (0.0 1.0) using full-potential linear muffin-tin orbital (FP-LMTO) method. *Optik*, **2016**, 127, 4559-4573	2.5	18
166	Elastic and thermodynamic properties of ZnSc2S4 and CdSc2S4 compounds under pressure and temperature effects. *Computational Materials Science*, **2013**, 70, 107-113	3.2	18
165	Elastic and thermodynamic properties of the SiB2O4 (B=Mg, Zn and Cd) cubic spinels: An ab initio FP-LAPW study. *Materials Science in Semiconductor Processing*, **2015**, 38, 192-202	4.3	18
164	First-principles investigation on structural, elastic, electronic and thermodynamic properties of filled skutterudite PrFe4P12 compound for thermoelectric applications. *Molecular Simulation*, **2014**, 40, 1236-1243	2	18
163	Investigated optical studies of Si quantum dot. *Solar Energy*, **2011**, 85, 2283-2287	6.8	18
162	Characterization and analysis of wheat-like CdS nanostructures under temperature effect for solar cells applications. *Optik*, **2016**, 127, 8907-8915	2.5	18
161	Optoelectronic properties of naphtho[2, 1-b:6, 5-b]difuran derivatives for photovoltaic application: a computational study. *Journal of Molecular Modeling*, **2016**, 22, 248	2	18
160	Improved room temperature dielectric properties of Gd3+ and Nb5+ co-doped Barium Titanate ceramics. *Journal of Alloys and Compounds*, **2021**, 883, 160836	5.7	18
159	Structural, optical and electrical investigations of Cu2Zn1-xCdxSnS4/Si quinternary alloy nanostructures synthesized by spin coating technique. *Microsystem Technologies*, **2017**, 23, 2223-2232	1.7	17
158	Optical investigations of blue shift in ZnS quantum dots. *Superlattices and Microstructures*, **2015**, 88, 662-667	2.8	17
157	Physicochemical characterization of sewage sludge and green waste for agricultural utilization. *Environmental Technology (United Kingdom)*, **2015**, 36, 1594-604	2.6	17
156	Theoretical investigation of the structural, elastic, electronic, and optical properties of the ternary tetragonal tellurides KBTe2 (B = Al, In). *Materials Science in Semiconductor Processing*, **2020**, 114, 105085	4.3	17
155	Effective Synthesis of Silicon Carbide Nanotubes by Microwave Heating of Blended Silicon Dioxide and Multi-Walled Carbon Nanotube. *Materials Research*, **2017**, 20, 1658-1668	1.5	17
154	Analysis and characterization of Cu2CdSnS4 quaternary alloy nanostructures deposited on GaN. *Indian Journal of Physics*, **2018**, 92, 695-703	1.4	17

153	Stirrer time effect on optical properties of nanophotonic LiNbO3. *Materials Chemistry and Physics*, **2018**, 203, 243-248	4.4	17
152	Optical analysis of lens-like Cu2CdSnS4 quaternary alloy nanostructures. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	17
151	Effect of Temperature on the Physical, Electro-Chemical and Adsorption Properties of Carbon Micro-Spheres Using Hydrothermal Carbonization Process. *Nanomaterials*, **2018**, 8,	5.4	17
150	Etching time effect on optical properties of porous silicon for solar cells fabrication. *Optik*, **2017**, 147, 343-349	2.5	17
149	First-Principles Calculations of Structural, Electronic, Optical, and Thermodynamic Properties of CdS, CdTe and Their Ternary Alloys CdS1-xTex(0.0 ≤x ≤1.0). *Acta Physica Polonica A*, **2014**, 125, 1110-1117	0.6	17
148	Fabrication, analysis and characterization of Cu2Zn1− Cd x SnS4 quinternary alloy nanostructures deposited on GaN. *Journal of Materials Science*, **2016**, 51, 6876-6885	4.3	17
147	Surface functionalized Cu2Zn1− Cd x SnS4 quinternary alloyed nanostructure for DNA sensing. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	16
146	A novel quinternary alloy (Cu2Zn1−CdxSnS4) nanostructured sensor for biomedical diagnosis. *Materials Research Express*, **2016**, 3, 085022	1.7	16
145	Cell-targeting aptamers act as intracellular delivery vehicles. *Applied Microbiology and Biotechnology*, **2016**, 100, 6955-69	5.7	16
144	Structural, optical and electrical properties of Cu2Zn1−CdxSnS4 quinternary alloys nanostructures deposited on porous silicon. *Microsystem Technologies*, **2016**, 22, 2893-2900	1.7	16
143	Phase transition of Nowotny–Juza NaZnX (X=P, As and Sb) compounds at high pressure: Theoretical investigation of structural, electronic and vibrational properties. *Computational Materials Science*, **2014**, 87, 187-197	3.2	16
142	Stiffness properties of porous silicon nanowires fabricated by electrochemical and laser-induced etching. *Superlattices and Microstructures*, **2011**, 50, 119-127	2.8	16
141	Effect of spin orbit on the electronic properties of zinc-blende compounds. *Journal of Applied Physics*, **2003**, 94, 4502-4506	2.5	16
140	Electronic structure and optical properties of the dialkali metal monotelluride compounds: Ab initio study. *Journal of Molecular Graphics and Modelling*, **2019**, 90, 77-86	2.8	15
139	Ab initio prediction of the elastic, electronic and optical properties of a new family of diamond-like semiconductors, Li2HgMS4 (M = Si, Ge and Sn). *Journal of Alloys and Compounds*, **2020**, 843, 155991	5.7	15
138	Ab initio exploration of the structural, elastic, electronic and optical properties of a new layered perovskite-type oxy–oride: CsSrNb2O6F. *Materials Science in Semiconductor Processing*, **2021**, 131, 105890	4.3	15
137	Recent Progress in the Development of Biosensors for Chemicals and Pesticides Detection. *IEEE Access*, **2020**, 8, 82514-82527	3.5	14
136	Investigated electronic structure and magnetic ordering of rare earth impurities (Eu, Gd) in ZnO. *International Journal of Modern Physics B*, **2016**, 30, 1650225	1.1	14

135	Structural, electronic, optical and elastic properties of the complex K2PtCl6-structure hydrides ARuH6 (A = Mg, Ca, Sr and Ba): first-principles study. *Philosophical Magazine*, **2016**, 96, 2328-2361	1.6	14
134	First-principles calculations of structural, elastic, thermodynamic, electronic and magnetic investigations of the filled skutterudite alloy UFe 4 Sb 12. *Materials Science in Semiconductor Processing*, **2016**, 41, 102-108	4.3	14
133	First-principles calculations to investigate optical properties of ByAlxIn1□□N alloys for optoelectronic devices. *Superlattices and Microstructures*, **2012**, 51, 404-411	2.8	14
132	Effect of Roughness of Hypo-and Hyper-Eutectic Al-Si Piston Alloy on Wear Characteristics under Lubrication. *Procedia Engineering*, **2013**, 53, 616-623		14
131	Structural, Analysis and Optical Studies of Cadmium Sulfide Nanostructured. *Procedia Engineering*, **2013**, 53, 217-224		14
130	Effect of stirring time on the structural parameters of nanophotonic LiNbO 3 deposited by spin-coating technique. *Optik*, **2018**, 156, 886-890	2.5	14
129	Synthesis and Characterization of Natural Extracted Precursor Date Palm Fibre-Based Activated Carbon for Aluminum Removal by RSM Optimization. *Processes*, **2019**, 7, 249	2.9	13
128	Synthesis of SnO2 nanostructures employing Nd:YAG laser. *Applied Physics A: Materials Science and Processing*, **2015**, 120, 725-730	2.6	13
127	Structural and electronic properties of zinc blende BxAl1□NyP1□ quaternary alloys via □st-principle calculations. *Physica B: Condensed Matter*, **2012**, 407, 426-432	2.8	13
126	Investigated optical and elastic properties of Porous silicon: Theoretical study. *Materials & Design*, **2011**, 32, 4088-4093		13
125	Solar energy status in Iraq: Abundant or not□teps forward. *Journal of Renewable and Sustainable Energy*, **2016**, 8, 025905	2.5	13
124	Hydrostatic pressure effects on the structural, elastic and thermodynamic properties of the complex transition metal hydrides A2OsH6 (A = Mg, Ca, Sr and Ba). *High Pressure Research*, **2017**, 37, 558-578	1.6	12
123	Annealing temperature effect on structural and optical investigations of Fe2O3 nanostructure. *Journal of Materials Research and Technology*, **2019**, 8, 2164-2169	5.5	12
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