# Alfonso Munoz

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 276 papers | 7,700 citations | 46 h-index | 73 g-index |
| 296 ext. papers | 8,595 ext. citations | 3.3 avg, IF | 5.72 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 276 | Pressure-Induced Phase Transition and Band Gap Decrease in Semiconducting CuVO.. *Inorganic Chemistry*, **2022**, | 5.1 | 2 |
| 275 | High-Pressure Properties of Wolframite-Type ScNbO4. *Journal of Physical Chemistry C*, **2022**, 126, 4664-4676 | 3.7 | 2 |
| 274 | Pressure-driven configurational crossover between 4f7 and 4f65d1 States Giant enhancement of narrow Eu2+ UV-Emission lines in SrB4O7 for luminescence manometry. *Acta Materialia*, **2022**, 231, 117886 | 8.4 | 1 |
| 273 | Combined Experimental and Theoretical Studies: Lattice-Dynamical Studies at High Pressures with the Help of Ab Initio Calculations. *Minerals (Basel, Switzerland)*, **2021**, 11, 1283 | 2.4 | 2 |
| 272 | Pressure-induced order-disorder transitions in nS: an experimental and theoretical study of structural and vibrational properties. *Physical Chemistry Chemical Physics*, **2021**, 23, 23625-23642 | 3.6 | 0 |
| 271 | High-pressure monoclinic-monoclinic transition in fergusonite-type HoNbO. *Journal of Physics Condensed Matter*, **2021**, 33, | 1.8 | 4 |
| 270 | A Pseudopotential Study of Structural, Mechanical, and Lattice Dynamics Behavior of the Binary Intermetallic Yttrium Tristannide YSn3. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2100219 | 1.3 | 0 |
| 269 | Structural, vibrational and electronic properties of GaS under compression. *Physical Chemistry Chemical Physics*, **2021**, 23, 6841-6862 | 3.6 | 3 |
| 268 | Structural and vibrational study of Zn(IO3)2 combining high-pressure experiments and density-functional theory. *Physical Review B*, **2021**, 103, | 3.3 | 5 |
| 267 | Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO3)2. *Journal of Physical Chemistry C* , **2021**, 125, 17448-17461 | 3.8 | 0 |
| 266 | Lattice dynamics study of (Gd1Ybx)2O3(x=0.11) at high pressure. *Journal of Alloys and Compounds*, **2021**, 871, 159525 | 5.7 | 0 |
| 265 | Electronic properties and high-pressure behavior of wolframite-type CoWO4. *Materials Advances*, **2021**, 2, 5955-5966 | 3.3 | 5 |
| 264 | Unveiling the role of the lone electron pair in sesquioxides at high pressure: compressibility of SbO. *Dalton Transactions*, **2021**, 50, 5493-5505 | 4.3 | 2 |
| 263 | Phase Behavior of TmVO under Hydrostatic Compression: An Experimental and Theoretical Study. *Inorganic Chemistry*, **2020**, 59, 4882-4894 | 5.1 | 5 |
| 262 | Characterization and Decomposition of the Natural van der Waals SnSbTe under Compression. *Inorganic Chemistry*, **2020**, 59, 9900-9918 | 5.1 | 11 |
| 261 | Structural and Lattice-Dynamical Properties of TbO under Compression: A Comparative Study with Rare Earth and Related Sesquioxides. *Inorganic Chemistry*, **2020**, 59, 9648-9666 | 5.1 | 9 |
| 260 | First-Order Isostructural Phase Transition Induced by High Pressure in Fe(IO3)3. *Journal of Physical Chemistry C*, **2020**, 124, 8669-8679 | 3.8 | 11 |

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| 259 | Orpiment under compression: metavalent bonding at high pressure. *Physical Chemistry Chemical Physics*, **2020**, 22, 3352-3369 | 3.6 | 14 |
| 258 | Experimental and Theoretical Study of SbPO under Compression. *Inorganic Chemistry*, **2020**, 59, 287-307 | 5.1 | 9 |
| 257 | The structural phase transition of ammonia borane under high pressure. *International Journal of Hydrogen Energy*, **2020**, 45, 33047-33058 | 6.7 | 3 |
| 256 | High-Pressure Raman Study of Fe(IO3)3: Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. *Journal of Physical Chemistry C*, **2020**, 124, 21329-21337 | 3.8 | 10 |
| 255 | High-pressure polymorphs of gadolinium orthovanadate: X-ray diffraction, Raman spectroscopy, and ab initio calculations. *Physical Review B*, **2019**, 100, | 3.3 | 9 |
| 254 | Post-tilleyite, a dense calcium silicate-carbonate phase. *Scientific Reports*, **2019**, 9, 7898 | 4.9 | 11 |
| 253 | Gold(i) sulfide: unusual bonding and an unexpected computational challenge in a simple solid. *Chemical Science*, **2019**, 10, 6467-6475 | 9.4 | 8 |
| 252 | High-Pressure Single-Crystal X-ray Diffraction of Lead Chromate: Structural Determination and Reinterpretation of Electronic and Vibrational Properties. *Inorganic Chemistry*, **2019**, 58, 5966-5979 | 5.1 | 11 |
| 251 | Giant conductivity enhancement: Pressure-induced semiconductor-metal phase transition in Cd0.90Zn0.1Te. *Physical Review B*, **2019**, 99, | 3.3 | 3 |
| 250 | Vibrational properties of CdGa2S4 at high pressure. *Journal of Applied Physics*, **2019**, 125, 115901 | 2.5 | 4 |
| 249 | High-pressure characterization of the optical and electronic properties of InVO4, InNbO4, and InTaO4. *SN Applied Sciences*, **2019**, 1, 1 | 1.8 | 27 |
| 248 | Dense Post-Barite-type Polymorph of PbSO Anglesite at High Pressures. *Inorganic Chemistry*, **2019**, 58, 2708-2716 | 5.1 | 4 |
| 247 | Putting the Squeeze on Lead Chromate Nanorods. *Journal of Physical Chemistry Letters*, **2019**, 10, 4744-4751 | 6.4 | 5 |
| 246 | High pressure theoretical and experimental analysis of the bandgap of BaMoO4, PbMoO4, and CdMoO4. *Applied Physics Letters*, **2019**, 115, 012102 | 3.4 | 8 |
| 245 | A High-Pressure Investigation of the Synthetic Analogue of Chalcomenite, CuSeO3⋅H2O. *Crystals*, **2019**, 9, 643 | 2.3 | 5 |
| 244 | Elastic and thermodynamic properties of β-Bi2O3 at high pressures: Study of mechanical and dynamical stability. *Journal of Physics and Chemistry of Solids*, **2019**, 124, 111-120 | 3.9 | 8 |
| 243 | Equation of state and structural characterization of Cu4I4{PPh2(CH2CH = CH2)}4 under pressure. *High Pressure Research*, **2019**, 39, 69-80 | 1.6 | 1 |
| 242 | Experimental and Theoretical Study of Bi2O2Se Under Compression. *Journal of Physical Chemistry C*, **2018**, 122, 8853-8867 | 3.8 | 32 |

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|---|---|---|---|
| 241 | High pressure luminescence of Nd in YAlO perovskite nanocrystals: A crystal-field analysis. *Journal of Chemical Physics*, **2018**, 148, 044201 | 3.9 | 18 |
| 240 | High-pressure structural and vibrational properties of monazite-type BiPO, LaPO, CePO, and PrPO. *Journal of Physics Condensed Matter*, **2018**, 30, 065401 | 1.8 | 15 |
| 239 | Effect of High Pressure on the Crystal Structure and Vibrational Properties of Olivine-Type LiNiPO. *Inorganic Chemistry*, **2018**, 57, 10265-10276 | 5.1 | 15 |
| 238 | High-Pressure Elastic, Vibrational and Structural Study of Monazite-Type GdPO4 from Ab Initio Simulations. *Crystals*, **2018**, 8, 209 | 2.3 | 5 |
| 237 | An Ultrahigh CO-Loaded Silicalite-1 Zeolite: Structural Stability and Physical Properties at High Pressures and Temperatures. *Inorganic Chemistry*, **2018**, 57, 6447-6455 | 5.1 | 13 |
| 236 | Stability of FeVO under Pressure: An X-ray Diffraction and First-Principles Study. *Inorganic Chemistry*, **2018**, 57, 7860-7876 | 5.1 | 17 |
| 235 | Experimental and theoretical study on the optical properties of LaVO crystals under pressure. *Physical Chemistry Chemical Physics*, **2018**, 20, 27314-27328 | 3.6 | 20 |
| 234 | Stability and nature of the volume collapse of □FeO under extreme conditions. *Nature Communications*, **2018**, 9, 4554 | 17.4 | 19 |
| 233 | Phase transition systematics in BiVO4 by means of high-pressure□high-temperature Raman experiments. *Physical Review B*, **2018**, 98, | 3.3 | 15 |
| 232 | Lattice dynamics study of cubic Tb2O3. *Journal of Raman Spectroscopy*, **2018**, 49, 2021-2027 | 2.3 | 10 |
| 231 | Experimental and Theoretical Studies on □nSe at High Pressure. *Inorganic Chemistry*, **2018**, 57, 8241-8252 | 5.1 | 22 |
| 230 | High-pressure structural, elastic, and thermodynamic properties of zircon-type HoPO and TmPO. *Journal of Physics Condensed Matter*, **2017**, 29, 095401 | 1.8 | 31 |
| 229 | First-Principles Study of InVO under Pressure: Phase Transitions from CrVO- to AgMnO-Type Structure. *Inorganic Chemistry*, **2017**, 56, 2697-2711 | 5.1 | 18 |
| 228 | Structural and vibrational properties of corundum-type InO nanocrystals under compression. *Nanotechnology*, **2017**, 28, 205701 | 3.4 | 8 |
| 227 | Pressure-Driven Isostructural Phase Transition in InNbO: In Situ Experimental and Theoretical Investigations. *Inorganic Chemistry*, **2017**, 56, 5420-5430 | 5.1 | 24 |
| 226 | ScVO under non-hydrostatic compression: a new metastable polymorph. *Journal of Physics Condensed Matter*, **2017**, 29, 055401 | 1.8 | 19 |
| 225 | Optical and structural study of the pressure-induced phase transition of CdWO4. *Physical Review B*, **2017**, 95, | 3.3 | 17 |
| 224 | Structural, Vibrational, and Elastic Properties of Yttrium Orthoaluminate Nanoperovskite at High Pressures. *Journal of Physical Chemistry C*, **2017**, 121, 15353-15367 | 3.8 | 8 |

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| 223 | High-pressure lattice-dynamics of NdVO4. *Journal of Physics and Chemistry of Solids*, **2017**, 100, 126-133 | 3.9 | 20 |
| 222 | Study of the orpiment and anorpiment phases of As2S3 under pressure. *Journal of Physics: Conference Series*, **2017**, 950, 042018 | 0.3 | 3 |
| 221 | High-pressure behavior of CaMoO4. *Physical Review Materials*, **2017**, 1, | 3.2 | 13 |
| 220 | High pressure study of structural, electronic, elastic, and vibrational properties of NaNb3O8. *Journal of Alloys and Compounds*, **2017**, 725, 773-782 | 5.7 | 1 |
| 219 | Experimental and ab Initio Study of Catena(bis(2-iodo)-6-methylquinoline-copper(I)) under Pressure: Synthesis, Crystal Structure, Electronic, and Luminescence Properties. *Inorganic Chemistry* , **2016**, 55, 7476-84 | 5.1 | 17 |
| 218 | Structural, vibrational, and electrical study of compressed BiTeBr. *Physical Review B*, **2016**, 93, | 3.3 | 19 |
| 217 | Pressure-induced phase transition and band-gap collapse in the wide-band-gap semiconductor InTaO4. *Physical Review B*, **2016**, 93, | 3.3 | 27 |
| 216 | Ordered helium trapping and bonding in compressed arsenolite: Synthesis of As4O6·2He. *Physical Review B*, **2016**, 93, | 3.3 | 23 |
| 215 | Bi2O3 under compression: Optical and elastic properties and electron density topology analysis. *Physical Review B*, **2016**, 93, | 3.3 | 15 |
| 214 | Pressure-structure relationships in the 10 K layered carbide halide superconductor Y2C2I2. *Journal of Physics Condensed Matter*, **2016**, 28, 375703 | 1.8 | 1 |
| 213 | Arsenolite: a quasi-hydrostatic solid pressure-transmitting medium. *Journal of Physics Condensed Matter*, **2016**, 28, 475403 | 1.8 | 3 |
| 212 | Monazite-type SrCrO4 under compression. *Physical Review B*, **2016**, 94, | 3.3 | 26 |
| 211 | Exploring the Chemical Reactivity between Carbon Dioxide and Three Transition Metals (Au, Pt, and Re) at High-Pressure, High-Temperature Conditions. *Inorganic Chemistry*, **2016**, 55, 10793-10799 | 5.1 | 17 |
| 210 | First-principles study of pressure-induced structural phase transitions in MnF. *Physical Chemistry Chemical Physics*, **2016**, 18, 33250-33263 | 3.6 | 13 |
| 209 | Structural and electrical study of the topological insulator SnBi2Te4 at high pressure. *Journal of Alloys and Compounds*, **2016**, 685, 962-970 | 5.7 | 19 |
| 208 | Pressure-induced phase transformation in zircon-type orthovanadate SmVO4 from experiment and theory. *Journal of Physics Condensed Matter*, **2016**, 28, 035402 | 1.8 | 18 |
| 207 | Pressure-induced amorphization of YVO:Eu3+ nanoboxes. *Nanotechnology*, **2016**, 27, 025701 | 3.4 | 14 |
| 206 | Phase Stability of Lanthanum Orthovanadate at High Pressure. *Journal of Physical Chemistry C*, **2016**, 120, 13749-13762 | 3.8 | 36 |

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| 205 | InBO3 and ScBO3 at high pressures: An ab initio study of elastic and thermodynamic properties. *Journal of Physics and Chemistry of Solids*, **2016**, 98, 198-208 | 3.9 | 6 |
| 204 | Correspondence: Strongly-driven Re+CO redox reaction at high-pressure and high-temperature. *Nature Communications*, **2016**, 7, 13647 | 17.4 | 19 |
| 203 | Vibrational and elastic properties of As4O6 and As4O6□2He at high pressures: Study of dynamical and mechanical stability. *Journal of Applied Physics*, **2016**, 120, 155901 | 2.5 | 7 |
| 202 | Super-orbital variability of LS I +61□303 at TeV energies. *Astronomy and Astrophysics*, **2016**, 591, A76 | 5.1 | 15 |
| 201 | Structural, Vibrational, and Electronic Study of Sb2S3 at High Pressure. *Journal of Physical Chemistry C*, **2016**, 120, 10547-10558 | 3.8 | 52 |
| 200 | High-Pressure Crystal Structure, Lattice Vibrations, and Band Structure of BiSbO4. *Inorganic Chemistry*, **2016**, 55, 4958-69 | 5.1 | 47 |
| 199 | Polymorphism in Strontium Tungstate SrWO under Quasi-Hydrostatic Compression. *Inorganic Chemistry*, **2016**, 55, 10406-10414 | 5.1 | 22 |
| 198 | Equation of state and electronic properties of EuVO4: A high-pressure experimental and computational study. *Journal of Alloys and Compounds*, **2015**, 648, 1005-1016 | 5.7 | 15 |
| 197 | Theoretical and Experimental Study of the Crystal Structures, Lattice Vibrations, and Band Structures of Monazite-Type PbCrO4, PbSeO4, SrCrO4, and SrSeO4. *Inorganic Chemistry*, **2015**, 54, 7524-35 | 5.1 | 78 |
| 196 | Experimental and Theoretical Investigations on Structural and Vibrational Properties of Melilite-Type Sr2ZnGe2O7 at High Pressure and Delineation of a High-Pressure Monoclinic Phase. *Inorganic Chemistry*, **2015**, 54, 6594-605 | 5.1 | 17 |
| 195 | Crystal Structure of Sinhalite MgAlBO4 under High Pressure. *Journal of Physical Chemistry C*, **2015**, 119, 6777-6784 | 3.8 | 4 |
| 194 | Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure. *Physical Chemistry Chemical Physics*, **2015**, 17, 9454-64 | 3.6 | 12 |
| 193 | Exploring the high-pressure behavior of the three known polymorphs of BiPO4: Discovery of a new polymorph. *Journal of Applied Physics*, **2015**, 117, 105902 | 2.5 | 49 |
| 192 | Chemical pressure effects on the spectroscopic properties of Nd^3+-doped gallium nano-garnets. *Optical Materials Express*, **2015**, 5, 1661 | 2.6 | 26 |
| 191 | Yttrium aluminium garnet under pressure: Structural, elastic, and vibrational properties from ab initio studies. *Journal of Applied Physics*, **2015**, 118, 245902 | 2.5 | 9 |
| 190 | High pressure phase transitions in NdVO4 **2015**, | | 8 |
| 189 | HgGa2Se4 under high pressure: An optical absorption study. *Physica Status Solidi (B): Basic Research* , **2015**, 252, 2043-2051 | 1.3 | 9 |
| 188 | Synthesis and High-Pressure Study of Corundum-Type In2O3. *Journal of Physical Chemistry C*, **2015**, 119, 29076-29087 | 3.8 | 16 |

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| 187 | Experimental and theoretical study of Eu2(MoO4)3 under compression. *Journal of Physics Condensed Matter*, **2015**, 27, 465401 | 1.8 | 4 |
| 186 | Crystal behavior of potassium bromate under compression. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2015**, 71, 798-804 | 1.8 | 2 |
| 185 | Polymorphs of CaSeO4 under pressure: a first-principles study of structural, electronic, and vibrational properties. *Inorganic Chemistry*, **2015**, 54, 1765-77 | 5.1 | 27 |
| 184 | Equation of state of zircon- and scheelite-type dysprosium orthovanadates: a combined experimental and theoretical study. *Journal of Physics Condensed Matter*, **2014**, 26, 025401 | 1.8 | 12 |
| 183 | Broadband, site selective and time resolved photoluminescence spectroscopic studies of finely size-modulated Y2O3:Eu3+ phosphors synthesized by a complex based precursor solution method. *Current Applied Physics*, **2014**, 14, 72-81 | 2.6 | 21 |
| 182 | Optical nanothermometer based on the calibration of the Stokes and upconverted green emissions of Er3+ ions in Y3Ga5O12 nano-garnets. *RSC Advances*, **2014**, 4, 57691-57701 | 3.7 | 21 |
| 181 | High-pressure Raman scattering of CaWO up to 46.3 GPa: evidence of a new high-pressure phase. *Inorganic Chemistry*, **2014**, 53, 9729-38 | 5.1 | 26 |
| 180 | A combined study of the equation of state of monazite-type lanthanum orthovanadate using in situ high-pressure diffraction and ab initio calculations. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2014**, 70, 533-8 | 1.8 | 13 |
| 179 | Characterization of the spin-12 linear-chain ferromagnet CuAs2O4. *Physical Review B*, **2014**, 89, | 3.3 | 14 |
| 178 | Pbca-Type In2O3: The High-Pressure Post-Corundum phase at Room Temperature.. *Journal of Physical Chemistry C*, **2014**, 118, 20545-20552 | 3.8 | 24 |
| 177 | Isostructural Second-Order Phase Transition of Bi2O3 at High Pressures: An Experimental and Theoretical Study. *Journal of Physical Chemistry C*, **2014**, 118, 23189-23201 | 3.8 | 50 |
| 176 | Structural and Vibrational Properties of CdAl2S4 under High Pressure: Experimental and Theoretical Approach. *Journal of Physical Chemistry C*, **2014**, 118, 15363-15374 | 3.8 | 6 |
| 175 | Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO3 (A = Al, Sc, Fe, and In). *Journal of Physical Chemistry C*, **2014**, 118, 4354-4361 | 3.8 | 19 |
| 174 | Pressure effects on the vibrational properties of Bi(2)O(3): an experimental and theoretical study. *Journal of Physics Condensed Matter*, **2014**, 26, 225401 | 1.8 | 17 |
| 173 | Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure. *Journal of Physical Chemistry C*, **2014**, 118, 13177-13185 | 3.8 | 30 |
| 172 | Effect of pressure on La2(WO4)3 with a modulated scheelite-type structure. *Physical Review B*, **2014**, 89, | 3.3 | 5 |
| 171 | High-pressure structural and elastic properties of Tl2O3. *Journal of Applied Physics*, **2014**, 116, 133521 | 2.5 | 15 |
| 170 | Structural and Vibrational Study of Pseudocubic CdIn2Se4under Compression. *Journal of Physical Chemistry C*, **2014**, 118, 26987-26999 | 3.8 | 7 |

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|---|---|---|---|
| 169 | Lattice and electronic contributions to the refractive index of CuWO4. *Journal of Applied Physics*, **2014**, 116, 103706 | 2.5 | 3 |
| 168 | Comment on "High-pressure x-ray diffraction study of YBO3/Eu3+, GdBO3, and EuBO3: Pressure-induced amorphization in GdBO3" [J. Appl. Phys. 115, 043507 (2014)]. *Journal of Applied Physics*, **2014**, 115, 216101 | 2.5 | 113 |
| 167 | High-pressure structural behaviour of HoVO4: combined XRD experiments and ab initio calculations. *Journal of Physics Condensed Matter*, **2014**, 26, 265402 | 1.8 | 47 |
| 166 | Elastic modulus and thermal properties of InN in the rocksalt phase. *Computational Materials Science*, **2014**, 81, 374-377 | 3.2 | 14 |
| 165 | Tuning the band gap of PbCrO4 through high-pressure: Evidence of wide-to-narrow semiconductor transitions. *Journal of Alloys and Compounds*, **2014**, 587, 14-20 | 5.7 | 46 |
| 164 | Chemical vapor transport of chalcopyrite semiconductors: CuGaS2 and AgGaS2. *Journal of Crystal Growth*, **2014**, 401, 708-711 | 1.6 | 2 |
| 163 | Structural and elastic properties of defect chalcopyrite HgGa2S4 under high pressure. *Journal of Alloys and Compounds*, **2014**, 583, 70-78 | 5.7 | 25 |
| 162 | Theoretical Ab Initio Calculations in Spinels at High Pressures. *Springer Series in Materials Science*, **2014**, 103-129 | 0.9 | 1 |
| 161 | Theoretical Ab Initio Calculations in Ordered-Vacancy Compounds at High Pressures. *Springer Series in Materials Science*, **2014**, 185-210 | 0.9 | 3 |
| 160 | Lattice Dynamics Study of HgGa2Se4 at High Pressures. *Journal of Physical Chemistry C*, **2013**, 117, 15773-15781 | 3.3 | 19 |
| 159 | Experimental and theoretical investigations on the polymorphism and metastability of BiPO4. *Dalton Transactions*, **2013**, 42, 14999-5015 | 4.3 | 56 |
| 158 | High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4. *Journal of Applied Physics*, **2013**, 113, 233501 | 2.5 | 14 |
| 157 | Pressure-induced phase-transition sequence in CoF2: An experimental and first-principles study on the crystal, vibrational, and electronic properties. *Physical Review B*, **2013**, 88, | 3.3 | 23 |
| 156 | Vibrational study of HgGa2S4 under high pressure. *Journal of Applied Physics*, **2013**, 113, 093512 | 2.5 | 18 |
| 155 | Thermally activated cation ordering in ZnGa2Se4 single crystals studied by Raman scattering, optical absorption, and ab initio calculations. *Journal of Physics Condensed Matter*, **2013**, 25, 165802 | 1.8 | 8 |
| 154 | Structural study of Bi2O3 under pressure. *Journal of Physics Condensed Matter*, **2013**, 25, 475402 | 1.8 | 27 |
| 153 | Crystal structure of HgGa2Se4 under compression. *Materials Research Bulletin*, **2013**, 48, 2128-2133 | 5.1 | 17 |
| 152 | High-pressure polymorphs of TbVO4: A Raman and ab initio study. *Journal of Alloys and Compounds*, **2013**, 577, 327-335 | 5.7 | 39 |

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| 151 | Electronic and elastic properties of yttrium gallium garnet under pressure from ab initio studies. *Journal of Applied Physics*, **2013**, 113, 183505 | 2.5 | 13 |
| 150 | Phase Behavior of Ag2CrO4 under Compression: Structural, Vibrational, and Optical Properties. *Journal of Physical Chemistry C*, **2013**, 117, 12239-12248 | 3.8 | 21 |
| 149 | Composition-dependent elastic modulus, vibration frequency and polaron properties of ZnSexTe1⊠ system. *Optical Materials*, **2013**, 35, 2303-2308 | 3.3 | 14 |
| 148 | High-pressure studies of topological insulators Bi2Se3, Bi2Te3, and Sb2Te3. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 669-676 | 1.3 | 61 |
| 147 | High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa2Se4. *Journal of Applied Physics*, **2013**, 113, 073510 | 2.5 | 24 |
| 146 | The simultaneous low state spectral energy distribution of 1ES 2344+514 from radio to very high energies. *Astronomy and Astrophysics*, **2013**, 556, A67 | 5.1 | 18 |
| 145 | On the Control Parameters of the Quasi-One Dimensional Superconductivity in Sc3CoC4. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2013**, 639, 1985-1995 | 1.3 | 11 |
| 144 | Very high energy gamma-ray observation of the peculiar transient event Swift J1644+57 with the MAGIC telescopes and AGILE. *Astronomy and Astrophysics*, **2013**, 552, A112 | 5.1 | 5 |
| 143 | Temperature dependence of band gaps in semiconductors: Electron-phonon interaction. *Physical Review B*, **2012**, 86, | 3.3 | 88 |
| 142 | High-pressure lattice dynamical study of bulk and nanocrystalline In2O3. *Journal of Applied Physics*, **2012**, 112, 123511 | 2.5 | 49 |
| 141 | High-pressure transition to the post-barite phase in BaCrO4 hashemite. *Physical Review B*, **2012**, 86, | 3.3 | 18 |
| 140 | Raman scattering study of bulk and nanocrystalline PbMoO4 at high pressures. *Journal of Applied Physics*, **2012**, 112, 103510 | 2.5 | 17 |
| 139 | Pressure effects on the electronic and optical properties of AWO4 wolframites (A = Cd, Mg, Mn, and Zn): The distinctive behavior of multiferroic MnWO4. *Physical Review B*, **2012**, 86, | 3.3 | 96 |
| 138 | High-pressure optical and vibrational properties of CdGa2Se4: Order-disorder processes in adamantine compounds. *Journal of Applied Physics*, **2012**, 111, 013518 | 2.5 | 36 |
| 137 | Synthesis, structure and luminescence of Er3+-doped Y3Ga5O12 nano-garnets. *Journal of Materials Chemistry*, **2012**, 22, 13788 | | 49 |
| 136 | First-principles study of electronic, vibrational, elastic, and magnetic properties of FeF2 as a function of pressure. *Physical Review B*, **2012**, 85, | 3.3 | 32 |
| 135 | Crystal Chemistry of CdIn2S4, MgIn2S4, and MnIn2S4 Thiospinels under High Pressure. *Journal of Physical Chemistry C*, **2012**, 116, 14078-14087 | 3.8 | 38 |
| 134 | Effects of pressure on the structure and lattice dynamics of TmPO4: Experiments and calculations. *Physical Review B*, **2012**, 85, | 3.3 | 27 |

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|---|---|---|---|
| 133 | Phonons and electrons in chalcopyrite semiconductors **2012**, | | 2 |
| 132 | Trapping of three-dimensional electrons and transition to two-dimensional transport in the three-dimensional topological insulator Bi2Se3 under high pressure. *Physical Review B*, **2012**, 85, | 3.3 | 27 |
| 131 | Experimental and Theoretical Study of Zircon and Scheelite Phases of DyVO4. *Acta Physica Polonica A*, **2012**, 121, 920-927 | 0.6 | 2 |
| 130 | Electronic and phononic properties of the chalcopyrite CuGaS2. *Physical Review B*, **2011**, 83, | 3.3 | 17 |
| 129 | Structural and vibrational study of Bi2Se3 under high pressure. *Physical Review B*, **2011**, 84, | 3.3 | 115 |
| 128 | Lattice dynamics of Sb2Te3 at high pressures. *Physical Review B*, **2011**, 84, | 3.3 | 81 |
| 127 | The electronic structure of zircon-type orthovanadates: Effects of high-pressure and cation substitution. *Journal of Applied Physics*, **2011**, 110, 043723 | 2.5 | 132 |
| 126 | High-pressure vibrational and optical study of Bi2Te3. *Physical Review B*, **2011**, 84, | 3.3 | 83 |
| 125 | Zircon to monazite phase transition in CeVO4: X-ray diffraction and Raman-scattering measurements. *Physical Review B*, **2011**, 84, | 3.3 | 71 |
| 124 | High-pressure study of ScVO4 by Raman scattering and ab initio calculations. *Physical Review B*, **2011**, 83, | 3.3 | 49 |
| 123 | Lattice dynamics of ZnAl2O4 and ZnGa2O4 under high pressure. *Annalen Der Physik*, **2011**, 523, 157-167 | 2.6 | 36 |
| 122 | High-pressure Raman spectroscopy and lattice-dynamics calculations on scintillating MgWO4: Comparison with isomorphic compounds. *Physical Review B*, **2011**, 83, | 3.3 | 61 |
| 121 | Experimental and theoretical study of structural properties and phase transitions in YAsO4 and YCrO4. *Physical Review B*, **2011**, 83, | 3.3 | 36 |
| 120 | First-principles calculations of electronic, vibrational, and structural properties of scheelite EuWO4 under pressure. *Physical Review B*, **2011**, 84, | 3.3 | 21 |
| 119 | High-pressure theoretical and experimental study of HgWO4. *High Pressure Research*, **2011**, 31, 58-63 | 1.6 | 1 |
| 118 | A combined high-pressure experimental and theoretical study of the electronic band-structure of scheelite-type AWO4 (A = Ca, Sr, Ba, Pb) compounds. *Journal of Applied Physics*, **2011**, 110, 043703 | 2.5 | 68 |
| 117 | Nonlinear pressure dependence of the direct band gap in adamantine ordered-vacancy compounds. *Physical Review B*, **2010**, 81, | 3.3 | 24 |
| 116 | Experimental and theoretical investigation of the stability of the monoclinic BaWO4-II phase at high pressure and high temperature. *Physical Review B*, **2010**, 81, | 3.3 | 19 |

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| 115 | High-pressure structural phase transitions in CuWO4. *Physical Review B*, **2010**, 81, | 3.3 | 60 |
| 114 | First-principles description of atomic gold chains on Ge(001). *Physical Review B*, **2010**, 81, | 3.3 | 17 |
| 113 | High-pressure structural and lattice dynamical study of HgWO4. *Physical Review B*, **2010**, 82, | 3.3 | 11 |
| 112 | High-pressure phase transitions and compressibility of wolframite-type tungstates. *Journal of Applied Physics*, **2010**, 107, 083506 | 2.5 | 54 |
| 111 | On the thermodynamic stability of alpha,omega-alkanedithiols self-assembled monolayers on unreconstructed and reconstructed Au(111). *Langmuir*, **2010**, 26, 9589-95 | 4 | 12 |
| 110 | Electronic and phononic properties of cinnabar: Ab initio calculations and some experimental results. *Physical Review B*, **2010**, 82, | 3.3 | 21 |
| 109 | High-pressure x-ray diffraction and ab initio study of Ni2Mo3N, Pd2Mo3N, Pt2Mo3N, Co3Mo3N, and Fe3Mo3N: Two families of ultra-incompressible bimetallic interstitial nitrides. *Physical Review B* , **2010**, 82, | 3.3 | 80 |
| 108 | Bond length compressibility in hard ReB2 investigated by x-ray absorption under high pressure. *Journal of Physics Condensed Matter*, **2010**, 22, 045701 | 1.8 | 15 |
| 107 | Theoretical and experimental study of the structural stability of TbPO4 at high pressures. *Physical Review B*, **2010**, 81, | 3.3 | 40 |
| 106 | Ab initio lattice dynamics and piezoelectric properties of MgS and MgSe alkaline earth chalcogenides. *European Physical Journal B*, **2010**, 73, 185-193 | 1.2 | 45 |
| 105 | Lattice dynamics of YVO4 at high pressures. *Physical Review B*, **2010**, 81, | 3.3 | 52 |
| 104 | Electronic, vibrational, and thermodynamic properties of ZnS with zinc-blende and rocksalt structure. *Physical Review B*, **2010**, 81, | 3.3 | 28 |
| 103 | High-pressure phase transformations, pressure-induced amorphization, and polyamorphic transition of the clathrate Rb6.15Si46. *Physical Review B*, **2009**, 79, | 3.3 | 32 |
| 102 | Electronic, vibrational, and thermodynamic properties of metacinnabar HgS, HgSe, and HgTe. *Physical Review B*, **2009**, 80, | 3.3 | 75 |
| 101 | Ab initio calculations of the wolframite MnWO4 under high pressure. *High Pressure Research*, **2009**, 29, 578-581 | 1.6 | 11 |
| 100 | Lattice vibration spectrum of GaN from first-principle calculations. *Semiconductor Science and Technology*, **2009**, 24, 025007 | 1.8 | 11 |
| 99 | Negative pressures in CaWO4 nanocrystals. *Journal of Applied Physics*, **2009**, 105, 094321 | 2.5 | 13 |
| 98 | First-principles study of the high-pressure phase transition in ZnAl2O4 and ZnGa2O4: From cubic spinel to orthorhombic post-spinel structures. *Physical Review B*, **2009**, 79, | 3.3 | 49 |

| | | | |
|---|---|---|---|
| 97 | Ab initio study of high-pressure structural properties of the LuVO4 and ScVO4 zircon-type orthovanadates. *High Pressure Research*, **2009**, 29, 582-586 | 1.6 | 11 |
| 96 | Phase transitions in wolframite-type CdWO4 at high pressure studied by Raman spectroscopy and density-functional theory. *Physical Review B*, **2009**, 79, | 3.3 | 62 |
| 95 | Ab initio study of the high-pressure phases and dynamical properties of ZnAl2O4 and ZnGa2O4. *High Pressure Research*, **2009**, 29, 573-577 | 1.6 | 8 |
| 94 | First-principles study of high-pressure phonon dispersions of wurtzite, zinc-blende, and rocksalt AlN. *Journal of Applied Physics*, **2008**, 103, 013506 | 2.5 | 47 |
| 93 | Structural stability of Fe5Si3 and Ni2Si studied by high-pressure x-ray diffraction and ab initio total-energy calculations. *Physical Review B*, **2008**, 77, | 3.3 | 46 |
| 92 | First-principles study of lithium-doped carbon clathrates under pressure. *Journal of Physics Condensed Matter*, **2008**, 20, 215218 | 1.8 | 30 |
| 91 | Combined Raman scattering and ab initio investigation of pressure-induced structural phase transitions in the scintillator ZnWO4. *Physical Review B*, **2008**, 78, | 3.3 | 80 |
| 90 | Phase diagram studies on iron and nickel silicides: high-pressure experiments andab initiocalculations. *Journal of Physics: Conference Series*, **2008**, 121, 022013 | 0.3 | 1 |
| 89 | Lattice dynamics properties of zinc-blende and Nickel arsenide phases of AlP. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2008**, 372, 5340-5345 | 2.3 | 20 |
| 88 | Electronic structure of p-type ultraviolet-transparent conducting CuScO2 films. *Thin Solid Films*, **2008**, 516, 1431-1433 | 2.2 | 16 |
| 87 | Structural and dielectric properties of AlN under pressure. *Physica B: Condensed Matter*, **2008**, 403, 4059-4062 | 1.8 | 50 |
| 86 | Electronic structure of CuAlO2 and CuScO2 delafossites under pressure. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 309-314 | 1.3 | 33 |
| 85 | Lattice dynamics of CuAlO2 under high pressure from ab initio calculations. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 342-346 | 1.3 | 12 |
| 84 | Crystal stability and pressure-induced phase transitions in scheelite AWO4 (A = Ca, Sr, Ba, Pb, Eu) binary oxides. I: A review of recent ab initio calculations, ADXRD, XANES, and Raman studies. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 325-330 | 1.3 | 28 |
| 83 | Structural phases of InAs under pressure. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 274-278 | 1.3 | 6 |
| 82 | Crystal stability and pressure-induced phase transitions in scheelite AWO4 (A = Ca, Sr, Ba, Pb, Eu) binary oxides. II: Towards a systematic understanding. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 295-302 | 1.3 | 30 |
| 81 | Preface: phys. stat. sol. (b) 1/2007. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 13-16 | 1.3 | 1 |
| 80 | Structural properties of zinc-blende GaxIn1-xN: ab initio calculations. *European Physical Journal B*, **2007**, 60, 435-438 | 1.2 | 7 |

| | | | |
|---|---|---|---|
| 79 | Ab initiolattice dynamics of zinc-blende GaxIn1□N alloys. *Journal of Physics Condensed Matter*, **2007**, 19, 486209 | 1.8 | 21 |
| 78 | Lattice dynamics study of scheelite tungstates under high pressure I. BaWO4. *Physical Review B*, **2006**, 74, | 3.3 | 85 |
| 77 | Theoretical study of the YLiF4 phase transitions under pressure. *Physical Review B*, **2006**, 73, | 3.3 | 13 |
| 76 | On the band gap of CuAlO2 delafossite. *Applied Physics Letters*, **2006**, 88, 181904 | 3.4 | 79 |
| 75 | Lattice dynamics study of scheelite tungstates under high pressure II. PbWO4. *Physical Review B*, **2006**, 74, | 3.3 | 47 |
| 74 | Pressure and temperature dependence of the lattice dynamics of CuAlO2 investigated by Raman scattering experiments and ab initio calculations. *Physical Review B*, **2006**, 74, | 3.3 | 87 |
| 73 | Determination of the high-pressure crystal structure of BaWO4 and PbWO4. *Physical Review B*, **2006**, 73, | 3.3 | 88 |
| 72 | Theoretical and experimental study of CaWO4 and SrWO4 under pressure. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 2164-2171 | 3.9 | 24 |
| 71 | Theoretical study of the scheelite-to-fergusonite phase transition in YLiF4 under pressure. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 2077-2082 | 3.9 | 3 |
| 70 | Optical properties of wurtzite and rock-salt ZnO under pressure. *Microelectronics Journal*, **2005**, 36, 928-932 | 1.2 | 37 |
| 69 | Theoretical study of the pressure-induced structural phase transition of ScSb and YSb. *International Journal of Quantum Chemistry*, **2005**, 101, 770-773 | 2.1 | 28 |
| 68 | High-pressure structural study of the scheelite tungstates CaWO4 and SrWO4. *Physical Review B*, **2005**, 72, | 3.3 | 152 |
| 67 | Structural evolution of the CuGaO2 delafossite under high pressure. *Physical Review B*, **2004**, 69, | 3.3 | 63 |
| 66 | Ab initio study of BAs under pressure. *Physica Status Solidi (B): Basic Research*, **2003**, 235, 446-451 | 1.3 | 4 |
| 65 | Theoretical study of ZnS under high pressure. *Physica Status Solidi (B): Basic Research*, **2003**, 235, 452-455 | 1.3 | 8 |
| 64 | Electronic structure and optical properties of CdTe rock-salt high pressure phase. *Physica Status Solidi (B): Basic Research*, **2003**, 235, 509-513 | 1.3 | 8 |
| 63 | First-principles elastic properties of BAs. *International Journal of Quantum Chemistry*, **2003**, 91, 191-196 | 2.1 | 10 |
| 62 | High-pressure phases of group-IV, III□V, and II□VI compounds. *Reviews of Modern Physics*, **2003**, 75, 863-912 | 40.5 | 815 |

| | | | |
|---|---|---|---|
| 61 | Optical properties and electronic structure of rock-salt ZnO under pressure. *Applied Physics Letters*, **2003**, 83, 278-280 | 3.4 | 138 |
| 60 | On the interaction of compounds of chromium(VI) with hydrogen peroxide. A study of chromium(VI) and (V) peroxides in the acidBasic pH range. *Inorganica Chimica Acta*, **2002**, 331, 16-24 | 2.7 | 16 |
| 59 | Electronic and Structural High Pressure Properties of CuGaS 2 Chalcopyrite Semiconductor. *High Pressure Research*, **2002**, 22, 361-364 | 1.6 | |
| 58 | Optical Properties of High Pressure Phases in ZnTe 1x Se x. *High Pressure Research*, **2002**, 22, 315-318 | 1.6 | 7 |
| 57 | High-Pressure Behaviour of Si AND Ge: A Theoretical Study. *High Pressure Research*, **2002**, 22, 455-458 | 1.6 | 1 |
| 56 | Relative Stability of Calcium Chalcogenides from Ab initio Theory. *High Pressure Research*, **2002**, 22, 459-463 | 1.6 | 23 |
| 55 | Comparative Study of Novel Structures in Silicon and Germanium. *Physica Status Solidi (B): Basic Research*, **2001**, 223, 379-384 | 1.3 | 19 |
| 54 | Theoretical Study of the Elastic Properties of IIIP Compounds. *Physica Status Solidi (B): Basic Research*, **2001**, 223, 411-415 | 1.3 | 45 |
| 53 | Stability and Structural Properties of ZnS and ZnSe under High Pressure. *Physica Status Solidi (B): Basic Research*, **2001**, 223, 417-422 | 1.3 | 16 |
| 52 | High-pressure phases of germanium. *Journal of Physics Condensed Matter*, **2001**, 13, 35-42 | 1.8 | 6 |
| 51 | Theoretical study of the relative stability of structural phases in group-III nitrides at high pressures. *Physical Review B*, **2000**, 62, 16612-16623 | 3.3 | 183 |
| 50 | Ab initiostudy of the phase transformations of ZnSe under high pressure: stability of the cinnabar and SC16 phases. *Journal of Physics Condensed Matter*, **2000**, 12, 1705-1713 | 1.8 | 26 |
| 49 | Theoretical study of graphitic analogues of simple semiconductors. *Modelling and Simulation in Materials Science and Engineering*, **1999**, 7, 929-938 | 2 | 12 |
| 48 | Ab Initio Study of the Mechanical Stability Criteria in BeSe and BeTe under Hydrostatic Pressure. *Physica Status Solidi (B): Basic Research*, **1999**, 211, 23-28 | 1.3 | 10 |
| 47 | High-Pressure Cinnabar-Like Phases in IIIV Compounds. *Physica Status Solidi (B): Basic Research*, **1999**, 211, 345-350 | 1.3 | 8 |
| 46 | AlX (X = As, P, Sb) Compounds under Pressure. *Physica Status Solidi (B): Basic Research*, **1999**, 211, 39-43 | 1.3 | 32 |
| 45 | Theoretical study of the role of natural intralayers in the band offsets of InAs/GaSb heterojunction. *Applied Surface Science*, **1998**, 123-124, 571-574 | 6.7 | 1 |
| 44 | First principles calculations of the band offset of the ZnSe/BeTe heterojunctions. *Applied Surface Science*, **1998**, 123-124, 445-448 | 6.7 | 2 |

| | | | |
|---|---|---|---|
| 43 | Theoretical study of the cinnabar phases in GaAs and GaP. *Physical Review B*, **1998**, 57, 1344-1347 | 3.3 | 31 |
| 42 | Elastic constants and electronic structure of beryllium chalcogenides BeS, BeSe, and BeTefrom first-principles calculations. *Physical Review B*, **1997**, 55, 14043-14046 | 3.3 | 117 |
| 41 | Ground-state properties and high-pressure phase of beryllium chalcogenides BeSe, BeTe, and BeS. *Physical Review B*, **1996**, 54, 11861-11864 | 3.3 | 66 |
| 40 | Band lineup modification by Ge interlayer deposition at II$^{IV}$VI/III$^{IV}$V semiconductor heterojunctions. *Applied Surface Science*, **1996**, 92, 408-411 | 6.7 | 1 |
| 39 | Electronic and Structural Properties of BeSe, BeTe, and BeS: Comparison between ab-initio Theory and Experiments. *Physica Status Solidi (B): Basic Research*, **1996**, 198, 439-446 | 1.3 | 45 |
| 38 | High Pressure Phases of AlSb from ab-initio Theory. *Physica Status Solidi (B): Basic Research*, **1996**, 198, 455-459 | 1.3 | 9 |
| 37 | High Pressure Stability in III$^{IV}$V and II-VI Binary Compounds and the Cmcm Phase A Theoretical Study. *Physica Status Solidi (B): Basic Research*, **1996**, 198, 461-467 | 1.3 | 11 |
| 36 | Electronic and structural properties of cubic BN and BP. *Physical Review B*, **1995**, 51, 14705-14708 | 3.3 | 111 |
| 35 | First-principles pseudopotential study of the phase stability of the III-V semiconductors GaAs and AlAs. *Physical Review B*, **1995**, 52, 8881-8892 | 3.3 | 78 |
| 34 | New phases and physical properties of the semiconducting nitrides: AlN, GaN, InN. *Computational Materials Science*, **1994**, 2, 400-412 | 3.2 | 12 |
| 33 | Structure and static properties of indium nitride at low and moderate pressures. *Journal of Physics Condensed Matter*, **1993**, 5, 6015-6022 | 1.8 | 40 |
| 32 | High-pressure structural phase transition and electronic properties of the group-III nitrides. *Physica B: Condensed Matter*, **1993**, 185, 422-425 | 2.8 | 10 |
| 31 | Interdiffusion effects in the band offset modification by intralayer deposition at semiconductor homojunctions. *Physica B: Condensed Matter*, **1993**, 185, 546-550 | 2.8 | 2 |
| 30 | Dynamics of resonant and non-resonant tunneling in asymmetric coupled quantum wells. *Applied Physics A: Solids and Surfaces*, **1993**, 56, 40-42 | | 1 |
| 29 | Relativistic corrections to resonant quantum tunnelling through heterostructures. *Semiconductor Science and Technology*, **1992**, 7, 66-70 | 1.8 | 3 |
| 28 | Dynamics of coherent electron tunnelling in asymmetric coupled quantum wells under longitudinal magnetic fields. *Semiconductor Science and Technology*, **1992**, 7, 332-336 | 1.8 | 3 |
| 27 | Heterojunction band offsets for polar interfaces: From a thin to a thick covalent intralayer. *Physical Review B*, **1992**, 46, 9641-9647 | 3.3 | 4 |
| 26 | Ab initio calculations of electronic structure and elastic constants in AlP. *Semiconductor Science and Technology*, **1992**, 7, 1437-1440 | 1.8 | 31 |

| | | | |
|---|---|---|---|
| 25 | Selfconsistent tight-binding calculations of band offsets in GaAs/AlxGa1⊠As-(110) and GaSb/AlxGa1⊠Sb-(110) heterojunctions theoretical evidence for a new common-anion rule. *Solid State Communications*, **1992**, 81, 961-963 | 1.6 | 6 |
| 24 | Quantum magnetotunneling time of electrons in Ga1⊠AlxA?GaAs superlattices. *Solid State Communications*, **1991**, 79, 749-754 | 1.6 | |
| 23 | High-pressure phase of gallium nitride. *Physical Review B*, **1991**, 44, 10372-10373 | 3.3 | 87 |
| 22 | TUNNELING ESCAPE TIME OF ELECTRONS FROM A PARABOLIC QUANTUM WELL IN DOUBLE BARRIER HETEROSTRUCTURES. *Modern Physics Letters B*, **1991**, 05, 293-300 | 1.6 | 4 |
| 21 | Resonant tunnelling of electrons through parabolic quantum wells: an analytical calculation of the transmission coefficient. *Semiconductor Science and Technology*, **1991**, 6, 218-222 | 1.8 | 13 |
| 20 | Semiconductor interface formation: The role of the induced density of interface states. *Applied Surface Science*, **1990**, 41-42, 144-150 | 6.7 | 32 |
| 19 | On the problem of the core level shifts at (110) surfaces of 111-v semiconductor compounds. *Journal of Electron Spectroscopy and Related Phenomena*, **1990**, 52, 155-160 | 1.7 | 3 |
| 18 | The effect of a metal intralayer on the heterojunction band offset: Extrinsic and intrinsic charge neutrality levels. *Surface Science*, **1990**, 226, 371-380 | 1.8 | 9 |
| 17 | First-principles calculation of the elastic constants of AlAs. *Physical Review B*, **1989**, 40, 11934-11936 | 3.3 | 42 |
| 16 | A theoretical analysis of the heterojunction band offsets as controlled by intralayer deposition. *Surface Science*, **1989**, 211-212, 503-510 | 1.8 | 13 |
| 15 | Band offsets in Si?Si1⊠Gex and Ge?Si1⊠Gex strained heterojunctions. *Solid State Communications*, **1988**, 67, 445-447 | 1.6 | 2 |
| 14 | K/Si(100) 2 □1: A Case Study for the Transfer of Charge between Alkali Metals and Semiconductor Surfaces. *Europhysics Letters*, **1988**, 5, 727-732 | 1.6 | 44 |
| 13 | Heterojunction band offsets and the interface dielectric function. *Physical Review B*, **1987**, 36, 5920-5924 | 3.3 | 13 |
| 12 | Heterojunction valence-band-discontinuity dependence on face orientation. *Physical Review B*, **1987**, 35, 6468-6470 | 3.3 | 39 |
| 11 | Theoretical calculation for a ZnSe-Ge(110) heterojunction with an ultrathin intralayer. *Physical Review B*, **1987**, 35, 7721-7724 | 3.3 | 17 |
| 10 | Electronic Structure of Interfaces. *Physica Scripta*, **1987**, T19A, 102-108 | 2.6 | 16 |
| 9 | Dangling bond states for a buckled Si(111)2 □1 surface. *Surface Science*, **1987**, 182, 606-612 | 1.8 | 1 |
| 8 | Band discontinuities for the (110)-interfaces of semiconductor heterojunctions. *Surface Science*, **1987**, 181, L200-L204 | 1.8 | 14 |

| | | | |
|---|---|---|---|
| 7 | Early Stages of GaAs-Ge(110) Interface Formation. *Europhysics Letters*, **1986**, 2, 385-391 | 1.6 | 27 |
| 6 | Many-body effects in the paramagnetic and antiferromagnetic states of the (111) silicon face. *Physical Review B*, **1986**, 33, 537-543 | 3.3 | 2 |
| 5 | Anion-induced surface states for the ideal (100) faces of GaAs, AlAs and GaSb. *Surface Science*, **1986**, 172, 47-56 | 1.8 | 4 |
| 4 | Correlation effects in the Si(111)□ □ surface. *Surface Science*, **1985**, 152-153, 1027-1034 | 1.8 | 4 |
| 3 | Electronic properties of Si(111) semiconductor surfaces. *Surface Science*, **1985**, 162, 156-162 | 1.8 | 2 |
| 2 | Auger linewidths for LILII,IIIV processes in Al, Mg and Na. *Journal of Physics C: Solid State Physics*, **1982**, 15, L1109-L1112 | | |
| 1 | Anomalous Raman modes in tellurides. *Journal of Materials Chemistry C*, | 7.1 | 5 |