# Omar El Bounagui

List of Publications by Year
in descending order



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|---|---|---|---|
| 40 papers | 2,536 citations | 567144 15 h-index | 302012 39 g-index |
| 41 all docs | 41 docs citations | 41 times ranked | 3948 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Magnetic properties and large magnetocaloric effect in the perovskite Mn<sub>3</sub>GeC compound: Ab initio and Monte Carlo calculations. Phase Transitions, 2022, 95, 10-18. | 0.6 | 2 |
| 2 | Ab initio study of structural and optical properties of the halide perovskite KBX3 compound. Journal of the Korean Ceramic Society, 2022, 59, 350-358. | 1.1 | 29 |
| 3 | Strain effect on physical properties of the multiferroic Mn<sub>3</sub>Sn material: a first-principles calculations. Philosophical Magazine, 2022, 102, 1305-1319. | 0.7 | 1 |
| 4 | Magnetic, magnetocaloric and thermoelectric properties of the intermetallic LaMn<sub>2</sub>Si<sub>2</sub> compound: a theoretical study. Phase Transitions, 2022, 95, 387-397. | 0.6 | 2 |
| 5 | Theoretical investigations of electronic structure and optical properties of S, Se or Te doped perovskite ATiO3 (A=Ca, Ba, and Sr) materials for eco-friendly solar cells. Superlattices and Microstructures, 2022, 163, 107124. | 1.4 | 6 |
| 6 | The effect of chalcogens-doped with dilation strain on the electronic, optic, and thermoelectric properties of perovskite BaSnO3 compound. Journal of the Korean Ceramic Society, 2022, 59, 715-728. | 1.1 | 7 |
| 7 | Earth-abundant nontoxic ternary calcium nitrides inverse perovskites for single-junction solar cells: Ab-initio simulations. Materials Science in Semiconductor Processing, 2022, 150, 106959. | 1.9 | 6 |
| 8 | Energy level engineering of charge selective contact and halide perovskite by modulating band offset: Mechanistic insights. Journal of Energy Chemistry, 2021, 54, 822-829. | 7.1 | 60 |
| 9 | Unravelling the theoretical window to fabricate high performance inorganic perovskite solar cells. Sustainable Energy and Fuels, 2021, 5, 219-229. | 2.5 | 19 |
| 10 | Theoretical investigation of physical properties of the spinel ZnFe<sub>2</sub>O<sub>4</sub> compound: Ab-initio calculation. Phase Transitions, 2021, 94, 134-146. | 0.6 | 2 |
| 11 | A DFT study of the electronic structure, optical, and thermoelectric properties of halide perovskite KGeI3-xBrx materials: photovoltaic applications. Applied Physics A: Materials Science and Processing, 2021, 127, 1. | 1.1 | 39 |
| 12 | Theoretical investigation of electronic, magnetic and magnetocaloric properties of Bi<sub>25</sub>FeO<sub>40</sub> compound. Phase Transitions, 2021, 94, 147-158. | 0.6 | 11 |
| 13 | Magnetocaloric and thermoelectric properties of the perovskite LaMnO<sub>3</sub> material: A DFT study and Monte Carlo technique. Phase Transitions, 2021, 94, 826-834. | 0.6 | 15 |
| 14 | Harnessing the potential of lead-free Snâ€“Ge based perovskite solar cells by unlocking the recombination channels. Sustainable Energy and Fuels, 2021, 5, 4661-4667. | 2.5 | 34 |
| 15 | Interfacial modification of perovskite solar cells via Cs2CO3: Computational and experimental approach. Solar Energy, 2021, 228, 700-705. | 2.9 | 4 |
| 16 | Magnetic Properties of NiFe2O4 Compound: Ab Initio Calculation and Monte Carlo Simulation. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1369-1375. | 0.8 | 14 |
| 17 | Theoretical investigation of electronic and optical properties of the CuIn1-x GaxSe2: Ab initio calculation. Optik, 2020, 207, 163881. | 1.4 | 4 |
| 18 | Electronic, optical and transport properties of perovskite BaZrS3 compound doped with Se for photovoltaic applications. Chemical Physics, 2020, 538, 110923. | 0.9 | 21 |

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|---|---|---|---|
| 19 | How the strain effects decreases the band gap energy in the CsPbX<sub>3</sub> perovskite compounds?. Phase Transitions, 2020, 93, 455-469. | 0.6 | 15 |
| 20 | Electronic, transport and optical properties in perovskite compound LaGaO<sub>3</sub>. Materials Research Express, 2020, 7, 035501. | 0.8 | 3 |
| 21 | Magnetocaloric effect in metallic antiperovskite Mn3InC compound: Ab-initio study and Monte Carlo simulations. Solid State Communications, 2020, 309, 113841. | 0.9 | 10 |
| 22 | Performance analysis of MAPbI3 based perovskite solar cells employing diverse charge selective contacts: Simulation study. Solar Energy, 2019, 193, 948-955. | 2.9 | 218 |
| 23 | Structural, electronic, magnetic, and magnetocaloric properties in intermetallic compound TbCu2Si2. Journal of Magnetism and Magnetic Materials, 2019, 481, 72-76. | 1.0 | 10 |
| 24 | Electronic Stopping Powers of Formvar and Mylar Polymeric Materials for Heavy Ions: LSS Modified Theory and Monte Carlo Simulation. Nuclear Technology, 2019, 205, 1236-1244. | 0.7 | 0 |
| 25 | Appraisement of Crystal Expansion in CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> on Doping: Improved Photovoltaic Properties. ChemSusChem, 2019, 12, 2366-2372. | 3.6 | 6 |
| 26 | Magnetic, magnetocaloric and transport properties in AlCMn3 antiperovskite compound. Journal of Alloys and Compounds, 2018, 741, 1196-1202. | 2.8 | 16 |
| 27 | RF plasma-enhanced grapheneâ€“polymer composites as hole transport materials for perovskite solar cells. Polymer Bulletin, 2018, 75, 4531-4545. | 1.7 | 11 |
| 28 | Structural, electronic, magnetic, and magnetocaloric properties in metallic antiperovskite compound Mn3GaC. Materials Research Bulletin, 2018, 98, 335-339. | 2.7 | 20 |
| 29 | Ab Initio Study of Electronic and Magnetic Properties in ZnO-Doped and Co-doped by Vanadium and Silver. Journal of Superconductivity and Novel Magnetism, 2018, 31, 2201-2206. | 0.8 | 1 |
| 30 | Understanding the Influence of Interface Morphology on the Performance of Perovskite Solar Cells. Materials, 2018, 11, 1073. | 1.3 | 19 |
| 31 | Vacuum deposited perovskite solar cells employing dopant-free triazatruxene as the hole transport material. Solar Energy Materials and Solar Cells, 2017, 163, 237-241. | 3.0 | 54 |
| 32 | 1-dimensional TiO2 nano-forests as photoanodes for efficient and stable perovskite solar cells fabrication. Nano Energy, 2017, 35, 215-222. | 8.2 | 34 |
| 33 | Ab Initio Study of Electronic and Magnetic Properties of Ga1-x Co x N (Doped) and Ga1-x-y Co x Cr y N (Co-doped). Journal of Superconductivity and Novel Magnetism, 2017, 30, 165-170. | 0.8 | 5 |
| 34 | Holeâ€Transport Materials for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 14522-14545. | 7.2 | 786 |
| 35 | Electronic and Magnetic Properties of ZnO Doped and Co-doped with (Co, Cr). Journal of Superconductivity and Novel Magnetism, 2016, 29, 3167-3173. | 0.8 | 3 |
| 36 | Lochtransportmaterialien fÃ¼r Perowskitâ€Solarzellen. Angewandte Chemie, 2016, 128, 14740-14764. | 1.6 | 72 |

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|---|---|---|---|
| 37 | Performance and stability of mixed FAPbI3(0.85)MAPbBr3(0.15) halide perovskite solar cells under outdoor conditions and the effect of low light irradiation. Nano Energy, 2016, 30, 570-579. | 8.2 | 110 |
| 38 | Perovskite as Light Harvester: A Game Changer in Photovoltaics. Angewandte Chemie - International Edition, 2014, 53, 2812-2824. | 7.2 | 862 |
| 39 | CHANNELING ENERGY LOSS IN SILICON BY USING NUMERICAL AND EXPERIMENTAL METHODS. Modern Physics Letters B, 2011, 25, 2171-2181. | 1.0 | 2 |
| 40 | Monte Carlo calculation of energy loss of hydrogen and helium ions transmitted under channelling conditions in silicon single crystal. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1361-1366. | 0.6 | 2 |