Omar El Bounagui

List of Publications by Year
in descending order

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	Perovskite as Light Harvester: A Game Changer in Photovoltaics. Angewandte Chemie - International Edition, 2014, 53, 2812-2824.	7.2	862
2	Holeâ€Transport Materials for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 14522-14545.	7.2	786
3	Performance analysis of MAPbI3 based perovskite solar cells employing diverse charge selective contacts: Simulation study. Solar Energy, 2019, 193, 948-955.	2.9	218
4	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
5	Lochtransportmaterialien fÃ¼r Perowskitâ€Solarzellen. Angewandte Chemie, 2016, 128, 14740-14764.	1.6	72
6	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
7	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
8	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
9	1-dimensional TiO2 nano-forests as photoanodes for efficient and stable perovskite solar cells fabrication. Nano Energy, 2017, 35, 215-222.	8.2	34
10	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
11	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
12	Electronic, optical and transport properties of perovskite BaZrS3 compound doped with Se for photovoltaic applications. Chemical Physics, 2020, 538, 110923.	0.9	21
13	Structural, electronic, magnetic, and magnetocaloric properties in metallic antiperovskite compound Mn3GaC. Materials Research Bulletin, 2018, 98, 335-339.	2.7	20
14	Understanding the Influence of Interface Morphology on the Performance of Perovskite Solar Cells. Materials, 2018, 11, 1073.	1.3	19
15	Unravelling the theoretical window to fabricate high performance inorganic perovskite solar cells. Sustainable Energy and Fuels, 2021, 5, 219-229.	2.5	19
16	Magnetic, magnetocaloric and transport properties in AlCMn3 antiperovskite compound. Journal of Alloys and Compounds, 2018, 741, 1196-1202.	2.8	16
17	How the strain effects decreases the band gap energy in the CsPbX₃ perovskite compounds?. Phase Transitions, 2020, 93, 455-469.	0.6	15
18	Magnetocaloric and thermoelectric properties of the perovskite LaMnO₃ material: A DFT study and Monte Carlo technique. Phase Transitions, 2021, 94, 826-834.	0.6	15

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19	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
20	RF plasma-enhanced grapheneâ€“polymer composites as hole transport materials for perovskite solar cells. Polymer Bulletin, 2018, 75, 4531-4545.	1.7	11
21	Theoretical investigation of electronic, magnetic and magnetocaloric properties of Bi₂₅FeO₄₀ compound. Phase Transitions, 2021, 94, 147-158.	0.6	11
22	Structural, electronic, magnetic, and magnetocaloric properties in intermetallic compound TbCu2Si2. Journal of Magnetism and Magnetic Materials, 2019, 481, 72-76.	1.0	10
23	Magnetocaloric effect in metallic antiperovskite Mn3InC compound: Ab-initio study and Monte Carlo simulations. Solid State Communications, 2020, 309, 113841.	0.9	10
24	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
25	Appraisement of Crystal Expansion in CH₃NH₃PbI₃ on Doping: Improved Photovoltaic Properties. ChemSusChem, 2019, 12, 2366-2372.	3.6	6
26	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
27	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
28	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
29	Theoretical investigation of electronic and optical properties of the CuIn1-x GaxSe2: Ab initio calculation. Optik, 2020, 207, 163881.	1.4	4
30	Interfacial modification of perovskite solar cells via Cs2CO3: Computational and experimental approach. Solar Energy, 2021, 228, 700-705.	2.9	4
31	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
32	Electronic, transport and optical properties in perovskite compound LaGaO₃. Materials Research Express, 2020, 7, 035501.	0.8	3
33	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
34	CHANNELING ENERGY LOSS IN SILICON BY USING NUMERICAL AND EXPERIMENTAL METHODS. Modern Physics Letters B, 2011, 25, 2171-2181.	1.0	2
35	Theoretical investigation of physical properties of the spinel ZnFe₂O₄ compound: Ab-initio calculation. Phase Transitions, 2021, 94, 134-146.	0.6	2
36	Magnetic properties and large magnetocaloric effect in the perovskite Mn₃GeC compound: Ab initio and Monte Carlo calculations. Phase Transitions, 2022, 95, 10-18.	0.6	2

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37	Magnetic, magnetocaloric and thermoelectric properties of the intermetallic LaMn₂Si₂ compound: a theoretical study. Phase Transitions, 2022, 95, 387-397.	0.6	2
38	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
39	Strain effect on physical properties of the multiferroic Mn₃Sn material: a first-principles calculations. Philosophical Magazine, 2022, 102, 1305-1319.	0.7	1
40	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