

Samir Bentata

List of Publications by Year in descending order

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706676

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69
docs citations

69
times ranked

502
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of 3d states on band structure feature, optical and magnetic properties of TM-doped CdS: a theoretical insights. Indian Journal of Physics, 2022, 96, 1381-1392.	0.9	3
2	Half-metallic ferromagnetic behavior of cubic lanthanide based on perovskite-type oxide NdCrO ₃ : first-principles calculations. Indian Journal of Physics, 2021, 95, 833-839.	0.9	9
3	Ab-initio investigation of optoelectronic properties for elpasolite Cs ₂ NaVCl ₆ using GGA+U approach: Band gap engineering. Computational Condensed Matter, 2021, 26, e00531.	0.9	7
4	New p-type sp-based half-Heusler compounds LiBaX(X=Si, Ge) for spintronics and thermoelectricity via ab-initio calculations. Journal of Computational Electronics, 2021, 20, 1072-1082.	1.3	6
5	Full Heusler alloys, with high absorption coefficient, insight into the optical properties of Li ₂ CaC and Li ₂ SrC. Solid State Communications, 2021, 328, 114238.	0.9	14
6	Theoretical investigation of ternary semiconductors half-Heusler RhTaZ (Z = Si, Ge and Sn) for thermoelectric applications. Modern Physics Letters B, 2021, 35, 2150400.	1.0	4
7	Predictive Study of the Rare Earth Double Perovskite Oxide Ba ₂ ErReO ₆ and the Influence of the Hubbard Parameter U on its Half-Metallicity. Journal of Superconductivity and Novel Magnetism, 2021, 34, 2893-2903.	0.8	11
8	A potential full Heusler thermoelectric material CO ₂ ZrZ (Z=Al, Si, Ga and Sn) in low temperature: An Ab-initio investigation. Solid State Communications, 2021, 336, 114422.	0.9	15
9	Electronic structure, mechanical and thermoelectric properties of the full Heusler Ba ₂ AgZ (Z=Bi, Sb) alloys: insights from DFT study. Indian Journal of Physics, 2021, 95, 2675-2686.	0.9	3
10	Electronic Structure and Thermoelectric Properties of Semiconductors K ₂ GeSi ₆ (X=F, Cl, Br and I) Compounds: Ab-Initio Investigation. Spin, 2021, 11, .	0.6	4
11	Semiconductor behavior of halide perovskites AGeX ₃ (A=K, Rb and Cs; X=F, Cl and Br): first-principles calculations. Indian Journal of Physics, 2020, 94, 455-467.	0.9	51
12	Optical properties of half-metallic ferrimagnetic double perovskite Sr ₂ CaOsO ₆ compound. Solid State Communications, 2020, 322, 114052.	0.9	6
13	Insight into Structural, Electronic, Magnetic, and Elastic Properties of Full-Heusler Alloys Co ₂ YPb (Y) Tj ETQq1 1 0.784314 rgBT /Overl 0,4 9	0.4	9
14	Lead-Free Semiconductors with High Absorption: Insight into the Optical Properties of K ₂ GeSnBr ₆ and K ₂ GeSnI ₆ Halide Double Perovskites. JETP Letters, 2020, 112, 364-369.	0.4	27
15	High Spin Polarization and Thermoelectric Efficiency of Half-Metallic Ferromagnetic CrYSn (Y=Ca, Sr) of Half-Heusler Compounds. Spin, 2020, 10, .	0.6	18
16	Optoelectronic properties of germanium iodide perovskites AGeI ₃ (A=K, Rb and Cs): first principles investigations. Optical and Quantum Electronics, 2019, 51, 1.	1.5	26
17	Investigation of high figure of merit in semiconductor XHfGe (X=Ni and Pd) half-Heusler alloys: Ab-initio study. Computational Condensed Matter, 2019, 21, e00407.	0.9	13
18	Thermoelectric, Structural, Optoelectronic and Magnetic properties of double perovskite Sr ₂ CrTaO ₆ : First principle Study. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 245, 68-74.	1.7	51

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19	Investigation of DFT+U effect of Holmium rare-earth on the electronic, magnetic and the half-metallic ferromagnetic properties' of double perovskite Ba ₂ HoReO ₆ . Solid State Communications, 2019, 294, 29-35.	0.9	27
20	The effect of 4d states based full Heusler alloy on the electronic and magnetic properties of new half metallic ferromagnetism: DFT+U study. Chinese Journal of Physics, 2019, 59, 28-34.	2.0	10
21	Rattling Heusler semiconductors' thermoelectric properties: First-principles prediction. Chinese Journal of Physics, 2019, 57, 195-210.	2.0	19
22	First principle calculations of structural, electronic and magnetic properties of cubic GdCrO ₃ Perovskite. Indian Journal of Physics, 2018, 92, 847-854.	0.9	6
23	Magnetic, Optoelectronic, and Thermodynamic Properties of Sr ₂ CrXO ₆ (X = La and Y): Half-Metallic and Ferromagnetic Behavior. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3965-3979.	0.8	12
24	Theoretical Investigation of Half-Metallic Ferromagnetism in Sodium-Based Fluoro-perovskite NaXF ₃ (X = V, Co). Journal of Superconductivity and Novel Magnetism, 2018, 31, 285-295.	0.8	15
25	Structural, electronic and optical properties of cubic fluoroelpasolite Cs ₂ NaYF ₆ by density functional theory. Chinese Journal of Physics, 2018, 56, 1756-1763.	2.0	15
26	Elastic, magnetic and electronic properties of ferrimagnetic double perovskite Sr ₂ MnWO ₆ using GGA+U and mBJ-GGA. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	4
27	Theoretical prediction of half metallic ferromagnetic full-Heusler alloys Cs ₂ CrGe. Solid State Communications, 2017, 260, 14-18.	0.9	20
28	GGA + U Study of Electronic and Magnetic Properties of Pr(Fe/Cr)O ₃ Cubic Perovskites. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2581-2590.	0.8	20
29	Structural, electronic, optical and elastic properties of the cubic perovskite PbHfO ₃ through modified Becke-Johnson potential. Chinese Journal of Physics, 2017, 55, 2514-2522.	2.0	5
30	Structural parameters and their effects on the electronic transport properties in aperiodic superlattice profile. Superlattices and Microstructures, 2016, 96, 8-15.	1.4	0
31	Effect of Coulomb interactions and Hartree-Fock exchange on structural, elastic, optoelectronic and magnetic properties of Co ₂ MnSi Heusler: A comparative study. Journal of Magnetism and Magnetic Materials, 2016, 419, 74-83.	1.0	28
32	First principle study of spintronic properties for double perovskites Ba ₂ XMoO ₆ with X=V, Cr and Mn. Materials Science in Semiconductor Processing, 2016, 43, 196-208.	1.9	44
33	Search for half-metallic ferromagnetism in orthorhombic Ce(Fe/Cr)O ₃ perovskites. Solid State Communications, 2016, 228, 36-42.	0.9	50
34	Ab-initio study of optoelectronic and magnetic properties of the orthorhombic NdMnO ₃ perovskite. Solid State Communications, 2015, 207, 9-15.	0.9	46
35	Optoelectronic properties of transition metals doped cubic Cadmium Sulfide. Materials Science in Semiconductor Processing, 2015, 36, 184-191.	1.9	8
36	Influence of Ni-Ni separation on the optoelectronic and magnetic properties of Ni-doped cubic cadmium sulphide. Materials Science in Semiconductor Processing, 2014, 17, 53-58.	1.9	15

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37	Ballistic transport in one-dimensional random dimer photonic crystals. Solid State Communications, 2014, 183, 47-50.	0.9	1
38	Effect of the aluminium concentration on the resonant tunnelling time and the laser wavelength of random trimer barrier Al _x Ga _{1-x} As superlattices. Physica B: Condensed Matter, 2014, 449, 150-154.	1.3	0
39	Ab-initio study of structural, electronic and magnetic properties of CdTe doped transition metal Co. Solid State Communications, 2014, 190, 40-43.	0.9	8
40	Half-metallic ferromagnetism in PrMnO ₃ perovskite from first principles calculations. Solid State Communications, 2013, 168, 6-10.	0.9	69
41	First-principles calculations of magnetic, electronic and optical properties of binary GaN and ternary CrGa _N , CuGa _N . Computational Materials Science, 2013, 70, 19-23.	1.4	12
42	Study of electronic and magnetic properties of binary zinc sulfide and ternary manganese- and iron-substituted alloys. Materials Science in Semiconductor Processing, 2013, 16, 576-581.	1.9	5
43	Periodic oscillations in dimer quasiperiodic fibonacci Al _x Ga _{1-x} As/GaAs superlattices. , 2013, , .		0
44	Study of transmission properties in GaAs/Al _x Ga _{1-x} As superlattices generated by a specific sequences. Superlattices and Microstructures, 2013, 56, 16-26.	1.4	3
45	Achievement of tailored laser frequencies by fine-tuning the structural parameters of Fibonacci™s in Al _x Ga _{1-x} As/GaAs superlattices. Superlattices and Microstructures, 2013, 62, 233-241.	1.4	1
46	Ab-initio study of magnetic, electronic and optical properties of ZnSe doped-transition metals. Materials Science in Semiconductor Processing, 2013, 16, 231-237.	1.9	42
47	Mixed disorder in GaAs/Al _x Ga _{1-x} As superlattices and its effect on the range of wavelength infrared lasers. Optik, 2013, 124, 3812-3815.	1.4	4
48	Electronic transmission in non-linear potential profile of GaAs/Al _x Ga _{1-x} As biased quantum well structure. Superlattices and Microstructures, 2013, 57, 115-122.	1.4	10
49	Electronic transmission in random trimer InAs/In _x Ga _{1-x} As superlattices. Results in Physics, 2012, 2, 198-202.	2.0	2
50	Modelisation and simulation of the transmission properties in Dimer Fibonacci Superlattices. , 2011, , .		0
51	Nature of the electronic states in random dimer Al _x Ga _{1-x} As superlattices. , 2011, , .		0
52	Resonant tunneling in GaAs/Al _x Ga _{1-x} As superlattices with aperiodic potential profiles. Superlattices and Microstructures, 2011, 50, 659-666.	1.4	6
53	Suppression of the singularly localized states in dimer quasiperiodic Fibonacci superlattices. Solid State Communications, 2010, 150, 865-869.	0.9	6
54	Analytical evidence of commuting resonance energy in correlated disorder trimer GaAs-Al _x Ga _{1-x} As superlattices. Canadian Journal of Physics, 2009, 87, 981-988.	0.4	2

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55	EFFECT OF APPLIED BIAS ON TRANSMISSION PROPERTIES OF DIMER FIBONACCI SUPERLATTICES. Modern Physics Letters B, 2009, 23, 2409-2420.	1.0	2
56	ELECTRONIC TRANSPORT IN RANDOM DIMER/TRIMER $\text{GaAs/Al}_x\text{Ga}_{1-x}\text{As}$ SUPERLATTICES. International Journal of Modern Physics B, 2009, 23, 5067-5073.	1.0	1
57	Nature of the enhanced resonant modes in one-dimensional photonic random dimer systems. Journal of Optics, 2009, 11, 125102.	1.5	2
58	The ballistic dimer resonance in the one-dimensional disordered photonic crystals. Superlattices and Microstructures, 2009, 46, 803-811.	1.4	0
59	Theoretical study of correlated disorder in superlattices under bias voltage. EPJ Applied Physics, 2009, 48, 10605.	0.3	5
60	The ballistic resonance of transversal mechanical waves in random-dimer systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5501-5507.	0.9	3
61	Study of GaAs/AlGaAs Superlattices in Structural Disorder Case. AIP Conference Proceedings, 2007, , .	0.3	1
62	To the Ballistic Dimer Resonance in the Propagation of Mechanical Waves in One Dimensional Linear Lattice. Journal of Applied Sciences, 2007, 7, 1131-1137.	0.1	3
63	Electronic States Nature of Trimer Height Barrier Disorder Superlattices. Journal of Applied Sciences, 2007, 7, 417-420.	0.1	3
64	Study of Tunneling Transport in Disorder DNA Structures. Journal of Applied Sciences, 2007, 7, 362-367.	0.1	0
65	Singular localised states in quasiperiodic $\text{GaAs/Al}_x\text{Ga}_{1-x}\text{As}$ Fibonacci superlattices. EPJ Applied Physics, 2006, 35, 113-116.	0.3	4
66	Effect of the Aluminium Fraction α in Subminiband Structures of Fibonacci $\text{Al}_x\text{Ga}_{1-x}\text{As/GaAs}$ Superlattices. Journal of Applied Sciences, 2006, 6, 3140-3144.	0.1	3
67	Two types of extended states in random dimer barrier superlattices. Superlattices and Microstructures, 2005, 37, 292-303.	1.4	8
68	Nature of the eigenstates in the miniband of random dimer-barrier superlattices. Superlattices and Microstructures, 2001, 30, 297-308.	1.4	13