

Mahmood Ul Hassan

List of Publications by Year in descending order

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50
papers

889
citations

471509

17
h-index

501196

28
g-index

51
all docs

51
docs citations

51
times ranked

496
citing authors

#	ARTICLE	IF	CITATIONS
1	First-principles evaluation of Co-doped ZnS and ZnSe ferromagnetic semiconductors. Journal of Alloys and Compounds, 2016, 688, 899-907.	5.5	81
2	Computational study of electronic, optical and thermoelectric properties of $X_{1-x}PbO_3$ ($X = Ti, Zr, Hf$). Journal of Alloys and Compounds, 2017, 704, 659-675.	2.9	62
3	Structural, electronic, optical and thermoelectric investigations of antiperovskites A_3SnO ($A = Ca, Sr, Ba$). Journal of Alloys and Compounds, 2017, 704, 659-675.	1.9	55
4	Systematic first principle study of physical properties of $Cd_{0.75}Ti_{0.25}Z$ ($Z = S, Se, Te$) magnetic semiconductors using mBJ functional. Journal of Alloys and Compounds, 2017, 704, 659-675.	5.5	54
5	Magnetic-Field-Induced Ferroelectric Polarization Reversal in the Multiferroic $Ge_{1-x}Mn_x$. Physical Review Letters, 2014, 112, 047202.	7.8	53
6	The under-pressure behaviour of mechanical, electronic and optical properties of calcium titanate and its ground state thermoelectric response. Philosophical Magazine, 2017, 97, 1884-1901.	1.6	53
7	Structural, electronic, optical, thermoelectric, and transport properties of indium-based double perovskite halides Cs_2InAgX_6 ($X = Cl, Br, I$) for energy applications. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	46
8	The first-principle study of mechanical, optoelectronic and thermoelectric properties of $CsGeBr_3$ and $CsSnBr_3$ perovskites. Materials Research Express, 2019, 6, 045901.	1.6	42
9	Investigation of ferromagnetic semiconducting and opto-electronic properties of $Zn_{1-x}Mn_xS$ ($0 \leq x \leq 1$) alloys: A DFT-mBJ approach. Current Applied Physics, 2016, 16, 1473-1483.	2.4	36
10	The study of electronic, magnetic, magneto-optical and thermoelectric properties of XCr_2O_4 ($X = Zn, Ni$). Journal of Alloys and Compounds, 2017, 704, 1038-1045.	2.4	35
11	Structural, dielectric and ferromagnetic properties of nano-crystalline Co-doped SnS. Journal of Materials Science, 2017, 52, 7369-7381.	3.7	32
12	Physical properties of cubic $BaGeO_3$ perovskite at various pressure using first-principle calculations for energy renewable devices. Journal of Molecular Graphics and Modelling, 2018, 84, 152-159.	2.4	29
13	Room temperature ferromagnetism in single-phase $Zn_{1-x}Mn_xS$ diluted magnetic semiconductors fabricated by co-precipitation technique. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	28
14	The study of electronic, elastic, magnetic and optical response of $Zn_{1-x}Ti_xY$ ($Y = S, Se$) through mBJ potential. Current Applied Physics, 2016, 16, 549-561.	2.4	27
15	Darboux Transformation and Multisoliton Solutions of the Short Pulse Equation. Journal of the Physical Society of Japan, 2012, 81, 094008.	1.6	25
16	Structural and dielectric study of nano-crystalline single phase $Sn_{1-x}Ni_xS$ ($x Ni = 0 \leq 10\%$) showing room temperature ferromagnetism. Progress in Natural Science: Materials International, 2017, 27, 303-310.	4.4	20
17	Investigations of optical and thermoelectric response of direct band gap Ca_3XO ($X = Si, Ge$) anti-perovskites stabilized in cubic and orthorhombic phases. Indian Journal of Physics, 2018, 92, 865-874.	1.8	20
18	Theoretical Study of Electronic, Magnetic, and Optical Response of Fe-doped ZnS: First-Principle Approach. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1463-1471.	1.8	16

#	ARTICLE	IF	CITATIONS
19	The systematic study of mechanical, thermoelectric and optical properties of lead based halides by first principle approach. <i>Physica B: Condensed Matter</i> , 2019, 571, 87-92.	2.7	15
20	Theoretical investigations of optoelectronic and thermoelectric properties of halide based double perovskite halides: K_2Te_6 . <i>Physica Scripta</i> , 2021, 96, 075703.	2.5	13
21	The Theoretical Investigation of Electronic, Magnetic, and Thermoelectric Behavior of Li_2ZnO_4 ($Z = Mn, Ni, Co$) Tj ETQq1 1 0.784314 rgBT /Ove Magnetism, 2019, 32, 1231-1239.	1.8	12
22	Zero-curvature formalism of supersymmetric principal chiral model. <i>European Physical Journal C</i> , 2005, 38, 521-526.	3.9	10
23	Synergetic Effect of Binary ZnS:SnS Composites with Reduced Graphene Oxide and Carbon Nanotubes as Anodes for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 13868-13877.	5.1	10
24	Darboux Transformation for a Semidiscrete Short-Pulse Equation. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2018, 194, 360-376.	0.9	9
25	First principle study of band gap tuning in Cs_2InSbX_6 ($X=Cl, Br, I$) for optoelectronic and thermoelectric applications. <i>Physica Scripta</i> , 2022, 97, 045801.	2.5	9
26	ON THE DRESSING METHOD FOR THE GENERALIZED COUPLED DISPERSIONLESS INTEGRABLE SYSTEM. <i>Modern Physics Letters A</i> , 2013, 28, 1350088.	1.2	8
27	A noncommutative coupled dispersionless system, Darboux transformation and explicit solutions. <i>Modern Physics Letters A</i> , 2014, 29, 1450206.	1.2	7
28	Multi-component noncommutative coupled dispersionless system and its quasideterminant solutions. <i>Modern Physics Letters A</i> , 2018, 33, 1850086.	1.2	7
29	Systematic DFT study of the impact of anionic variations on the physical properties of $Cd_{1-x}Mn_xX$ ($X = S, Se, Te$) Tj ETQq1 1,0,784314 rgBT /Ove 5.2	5.2	7
30	Engineering of the band gap and optical properties of $In_xGa_{1-x}(As/Sb)$ via across composition alloying for solar cell applications using density functional theory-based approaches. <i>Physica Scripta</i> , 2019, 94, 105812.	2.5	7
31	DARBOUX TRANSFORMATION AND MULTI-SOLITON SOLUTIONS OF A NONCOMMUTATIVE SINE-GORDON SYSTEM. <i>Modern Physics Letters A</i> , 2008, 23, 115-127.	1.2	6
32	Structural, optical, and photocatalytic properties of $Cd_{1-x}S_x$:Lax nanoparticles for optoelectronic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	6
33	Integrability Properties of A Supersymmetric Coupled Dispersionless Integrable System. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2018, 195, 825-833.	0.9	6
34	Temperature-Dependent Phase Formation, Surface Morphological and Magnetic Studies of Bismuth Iron Oxide Grown by Co-precipitation Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 2549-2554.	1.8	5
35	Noncommutative negative order AKNS equation and its soliton solutions. <i>Modern Physics Letters A</i> , 2018, 33, 1850209.	1.2	5
36	Generalized Lattice Heisenberg Magnet Model and Its Quasideterminant Soliton Solutions. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2018, 195, 665-675.	0.9	5

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37	Electronic structure and magnetic properties of $Zn_{1-x}TM_xTe$ (TM = Fe, Co, Ni) for 0 ≤ x ≤ 1 alloys. International Journal of Modern Physics B, 2016, 30, 1650160.	2.0	4
38	Ab Initio Study of Electronic, Magnetic, and Thermoelectric Response of ZTi_2O_4 (Z = Mg, Zn, and Cd) Through mBJ Potential. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3793-3801.	1.8	4
39	Structural and morphological properties of $Zn_{1-x}Zr_xO$ with room-temperature ferromagnetism and fabricated by using the co-precipitation technique. Journal of the Korean Physical Society, 2017, 70, 460-464.	0.7	3
40	Pressure dependence of electronic, optical and thermoelectric properties of $RbTaO_3$ perovskite. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	3
41	Study of half metallic ferromagnetism and, transport properties of $Cd_{0.875}TM_{0.125}O$ (TM = Mn, Fe, Co.) Tj ETQq1 1 0.784314 rgBT / Over	4.0	3
42	Superfield Lax formalism of supersymmetric sigma model on symmetric spaces. European Physical Journal C, 2006, 46, 797-805.	3.9	2
43	On algebraic structures in supersymmetric principal chiral model. European Physical Journal C, 2008, 53, 627-633.	3.9	2
44	DARBOUX TRANSFORMATION AND MULTI-SOLITON SOLUTIONS OF PRINCIPAL CHIRAL AND WZW MODELS. Modern Physics Letters A, 2011, 26, 73-85.	1.2	2
45	Dressing Method for the Multicomponent Short-Pulse Equation. Theoretical and Mathematical Physics (Russian Federation), 2019, 199, 709-718.	0.9	2
46	Study of magnetic, thermoelectric and optical behaviors of $PbMO_3$ (M = V, Mn) perovskites using DFT approach. Materials Research Express, 2019, 6, 126110.	1.6	2
47	Computational Analysis of Structural, Electronic, Magnetic and Optical Properties of $MgTM_2O_4$ (TM =) Tj ETQq1 1 0.784314 rgBT / Over	2.2	1
48	CONSERVED QUANTITIES IN THE GENERALIZED HEISENBERG MAGNET (GHM) MODEL. Modern Physics Letters A, 2013, 28, 1350020.	1.2	0
49	Modification in Structural and Magnetic Properties of Pure ZnO Realized by Bi Addition. Materials Today: Proceedings, 2015, 2, 5596-5600.	1.8	0
50	STRUCTURAL, SURFACE MORPHOLOGICAL AND MAGNETIC STUDIES OF $Zn_{1-x}Fe_xS$ ($x=0.00\text{--}0.10$) DILUTED MAGNETIC SEMICONDUCTORS GROWN BY CO-PRECIPITATION METHOD. Surface Review and Letters, 2018, 25, 1850044.	1.1	0