Mahmood Ul Hassan

List of Publications by Year
in descending order

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	Study of half metallic ferromagnetism and, transport properties of Cd0.875TM0.125O (TM = Mn, Fe, Co,) Tj ETQq1 1 0.784314 rgBT /O	4.0	3
2	First principle study of band gap tuning in Cs₂InSbX₆ (XÂ=ÂCl, Br, I) for optoelectronic and thermoelectric applications. Physica Scripta, 2022, 97, 045801.	2.5	9
3	Structural, electronic, optical, thermoelectric, and transport properties of indium-based double perovskite halides Cs2InAgX6 (Xâ€‰=â€‰Cl, Br, I) for energy applications. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	46
4	Pressure dependence of electronic, optical and thermoelectric properties of RbTaO3 perovskite. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	3
5	Theoretical investigations of optoelectronic and thermoelectric properties of halide based double perovskite halides: K₂TeX₆. Physica Scripta, 2021, 96, 075703.	2.5	13
6	Synergetic Effect of Binary ZnS:SnS Composites with Reduced Graphene Oxide and Carbon Nanotubes as Anodes for Sodium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 13868-13877.	5.1	10
7	The Theoretical Investigation of Electronic, Magnetic, and Thermoelectric Behavior of LiZ2O4 (Z = Mn,) Tj ETQq1 1 0.784314 rgBT /Ov Magnetism, 2019, 32, 1231-1239.	1.8	12
8	The systematic study of mechanical, thermoelectric and optical properties of lead based halides by first principle approach. Physica B: Condensed Matter, 2019, 571, 87-92.	2.7	15
9	Engineering of the band gap and optical properties of InxGa1â^'x(As/Sb) via across composition alloying for solar cell applications using density functional theory-based approaches. Physica Scripta, 2019, 94, 105812.	2.5	7
10	Dressing Method for the Multicomponent Short-Pulse Equation. Theoretical and Mathematical Physics(Russian Federation), 2019, 199, 709-718.	0.9	2
11	Study of magnetic, thermoelectric and optical behaviors of PbMO3 (M = V, Mn) perovskites using DFT approach. Materials Research Express, 2019, 6, 126110.	1.6	2
12	The first-principle study of mechanical, optoelectronic and thermoelectric properties of CsGeBr₃ and CsSnBr₃ perovskites. Materials Research Express, 2019, 6, 045901.	1.6	42
13	Ab Initio Study of Electronic, Magnetic, and Thermoelectric Response of ZTi2O4 (Z = Mg, Zn, and Cd) Through mBJ Potential. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3793-3801.	1.8	4
14	Darboux Transformation for a Semidiscrete Short-Pulse Equation. Theoretical and Mathematical Physics(Russian Federation), 2018, 194, 360-376.	0.9	9
15	Investigations of optical and thermoelectric response of direct band gap Ca3XO (XÂ=ÂSi, Ge) anti-perovskites stabilized in cubic and orthorhombic phases. Indian Journal of Physics, 2018, 92, 865-874.	1.8	20
16	STRUCTURAL, SURFACE MORPHOLOGICAL AND MAGNETIC STUDIES OF Zn1â^'xFe_{<i>x</i>}S (x=0.00â€"0.10) DILUTED MAGNETIC SEMICONDUCTORS GROWN BY CO-PRECIPITATION METHOD. Surface Review and Letters, 2018, 25, 1850044.	1.1	0
17	Structural, electronic, optical and thermoelectric investigations of antiperovskites A3SnO (A = Ca,) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	55
18	Structural, optical, and photocatalytic properties of Cd1â^'xS:Lax nanoparticles for optoelectronic applications. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	6

#	Article	IF	Citations
19	Noncommutative negative order AKNS equation and its soliton solutions. Modern Physics Letters A, 2018, 33, 1850209.	1.2	5
20	Multi-component noncommutative coupled dispersionless system and its quasideterminant solutions. Modern Physics Letters A, 2018, 33, 1850086.	1.2	7
21	Physical properties of cubic BaGeO3 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
22	Systematic DFT study of the impact of anionic variations on the physical properties of Cd1-xMnxX (X S,) Tj ETQq0 0 0 rgBT /Overlock 10	5.2	7
23	Integrability Properties of A Supersymmetric Coupled Dispersionless Integrable System. Theoretical and Mathematical Physics(Russian Federation), 2018, 195, 825-833.	0.9	6
24	Generalized Lattice Heisenberg Magnet Model and Its Quasideterminant Soliton Solutions. Theoretical and Mathematical Physics(Russian Federation), 2018, 195, 665-675.	0.9	5
25	Systematic first principle study of physical properties of Cd0.75Ti0.25Z (ZÂ= S, Se,Te) magnetic semiconductors using mBJ functional. Journal of Alloys and Compounds, 2017, 704, 659-675.	5.5	54
26	Room temperature ferromagnetism in single-phase Zn1â^'x Mn x S diluted magnetic semiconductors fabricated by co-precipitation technique. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	28
27	The study of electronic, magnetic, magneto-optical and thermoelectric properties of XCr 2 O 4 (XÂ=ÂZn,) Tj ETQq1 1 0.784314 rgBT /O 1038-1045.	2.4	35
28	Structural and morphological properties of Zn1â^'x Zr x O 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
29	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
30	Structural and dielectric study of nano-crystalline single phase Sn 1â^'x Ni x S (x Ni =0â€"10%) showing room temperature ferromagnetism. Progress in Natural Science: Materials International, 2017, 27, 303-310.	4.4	20
31	Temperature-Dependent Phase Formation, Surface Morphological and Magnetic Studies of Bismuth Iron Oxide Grown by Co-precipitation Method. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2549-2554.	1.8	5
32	Structural, dielectric and ferromagnetic properties of nano-crystalline Co-doped SnS. Journal of Materials Science, 2017, 52, 7369-7381.	3.7	32
33	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
34	Computational study of electronic, optical and thermoelectric properties of X₃PbO (X =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	62
35	First-principles evaluation of Co-doped ZnS and ZnSe ferromagnetic semiconductors. Journal of Alloys and Compounds, 2016, 688, 899-907.	5.5	81
36	Investigation of ferromagnetic semiconducting and opto-electronic properties of Zn1â^'xMnxS (0Ââ‰ÂxÂâ‰Â1) alloys: A DFT-mBJ approach. Current Applied Physics, 2016, 16, 1473-1483.	2.4	36

#	ARTICLE	IF	CITATIONS
37	Electronic structure and magnetic properties of Zn1â^'xTMxTe (TM = Fe,ÂCo,ÂNi) for 0 â‰ x â‰ 1 alloys. International Journal of Modern Physics B, 2016, 30, 1650160.	2.0	4
38	The study of electronic, elastic, magnetic and optical response of Zn 1-x Ti x Y (Y = S, Se) through mBJ potential. Current Applied Physics, 2016, 16, 549-561.	2.4	27
39	Modification in Structural and Magnetic Properties of Pure ZnO Realized by Bi Addition. Materials Today: Proceedings, 2015, 2, 5596-5600.	1.8	0
40	A noncommutative coupled dispersionless system, Darboux transformation and explicit solutions. Modern Physics Letters A, 2014, 29, 1450206.	1.2	7
41	Magnetic-Field-Induced Ferroelectric Polarization Reversal in the Multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ge</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo mathvariant="bold">â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Mn</mml:mi><mml:mi>x Physical Review Letters, 2014, 112, 047202.	7.8	53
42	CONSERVED QUANTITIES IN THE GENERALIZED HEISENBERG MAGNET (GHM) MODEL. Modern Physics Letters A, 2013, 28, 1350020.	1.2	0
43	ON THE DRESSING METHOD FOR THE GENERALIZED COUPLED DISPERSIONLESS INTEGRABLE SYSTEM. Modern Physics Letters A, 2013, 28, 1350088.	1.2	8
44	Darboux Transformation and Multisoliton Solutions of the Short Pulse Equation. Journal of the Physical Society of Japan, 2012, 81, 094008.	1.6	25
45	DARBOUX TRANSFORMATION AND MULTI-SOLITON SOLUTIONS OF PRINCIPAL CHIRAL AND WZW MODELS. Modern Physics Letters A, 2011, 26, 73-85.	1.2	2
46	On algebraic structures in supersymmetric principal chiral model. European Physical Journal C, 2008, 53, 627-633.	3.9	2
47	DARBOUX TRANSFORMATION AND MULTI-SOLITON SOLUTIONS OF A NONCOMMUTATIVE SINEâ€“GORDON SYSTEM. Modern Physics Letters A, 2008, 23, 115-127.	1.2	6
48	Superfield Lax formalism of supersymmetric sigma model on symmetric spaces. European Physical Journal C, 2006, 46, 797-805.	3.9	2
49	Zero-curvature formalism of supersymmetric principal chiral model. European Physical Journal C, 2005, 38, 521-526.	3.9	10
50	Computational Analysis of Structural, Electronic, Magnetic and Optical Properties of MgTM2O4 (TM =) Tj ETQq0 0 0 rgBT /Overlock 10	2.2	1