Muhammad Rashid

List of Publications by Year
in descending order

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65 papers	1,474 citations	394421 19 h-index	345221 36 g-index
65 all docs	65 docs citations	65 times ranked	1345 citing authors

#	Article	IF	Citations
1	Exome sequencing of Pakistani consanguineous families identifies 30 novel candidate genes for recessive intellectual disability. Molecular Psychiatry, 2017, 22, 1604-1614.	7.9	118
2	A Sustainable Deep Learning Framework for Object Recognition Using Multi-Layers Deep Features Fusion and Selection. Sustainability, 2020, 12, 5037.	3.2	105
3	The pressure-induced mechanical and optoelectronic behavior of cubic perovskite PbSnO3 via ab-initio investigations. Ceramics International, 2018, 44, 13750-13756.	4.8	95
4	Deep CNN and geometric features-based gastrointestinal tract diseases detection and classification from wireless capsule endoscopy images. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 577-599.	2.8	92
5	Object detection and classification: a joint selection and fusion strategy of deep convolutional neural network and SIFT point features. Multimedia Tools and Applications, 2019, 78, 15751-15777.	3.9	69
6	Systematic study of elastic, electronic, optical and thermoelectric properties of cubic BiBO3 and BiAlO3 compounds at different pressure by using ab-initio calculations. Materials Research Bulletin, 2018, 97, 436-443.	5.2	67
7	Physical properties of lead-free double perovskites A2SnI6 (A= Cs, Rb) using ab-initio calculations for solar cell applications. Materials Science in Semiconductor Processing, 2021, 121, 105313.	4.0	62
8	Ab-initio study of thermodynamic stability, thermoelectric and optical properties of perovskites ATiO3 (A=Pb, Sn). Journal of Solid State Chemistry, 2018, 263, 115-122.	2.9	54
9	Shift of indirect to direct bandgap and thermoelectric response of the cubic BiScO3 via DFT-mBJ studies. Materials Science in Semiconductor Processing, 2016, 49, 40-47.	4.0	47
10	Classification of gastrointestinal diseases of stomach from WCE using improved saliency-based method and discriminant features selection. Multimedia Tools and Applications, 2019, 78, 27743-27770.	3.9	44
11	Opto-electronic and thermoelectric properties of MgIn2X4 (XÂ= S, Se) spinels via ab-initio calculations. Journal of Molecular Graphics and Modelling, 2019, 88, 168-173.	2.4	42
12	An integrated framework of skin lesion detection and recognition through saliency method and optimal deep neural network features selection. Neural Computing and Applications, 2020, 32, 15929-15948.	5.6	40
13	Ab-initio study of electronic, magnetic and thermoelectric behaviors of LiV 2 O 4 and LiCr 2 O 4 using modified Becke-Johson (mBJ) potential. Physica B: Condensed Matter, 2018, 537, 329-335.	2.7	35
14	Systematic study of optoelectronic and transport properties of cesium lead halide (Cs2PbX6; X=Cl, Br,) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.8	32
15	Ab-initio study of fundamental properties of ternary ZnO1â^'xSx alloys by using special quasi-random structures. Computational Materials Science, 2014, 91, 285-291.	3.0	31
16	Investigations of half-metallic ferromagnetism and thermoelectric properties of cubic XCrO3 (Xâ€¯=â€¯Ca,Sr,Ba) compounds via first-principles approaches. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3095-3102.	2.1	30
17	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
18	Zinc based chalcogenides ZnMn2X4 (XÂ= S, Se, Te) as promising spintronic and sustainable energy materials: Ab-initio DFT investigations. Journal of Alloys and Compounds, 2021, 856, 157198.	5.5	24

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19	Physical properties of half-metallic AMnO3 (Aâ€¯=â€¯Mg, Ca) oxides via ab initio calculations. Computational Materials Science, 2018, 146, 248-254.	3.0	23
20	Theoretical Investigation of Cubic BaVO3 and LaVO3 Perovskites via Tranâ€“Blaha-Modified Beckeâ€“Johnson Exchange Potential Approach. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3129-3136.	1.8	20
21	Spin-dependent rare-earth-based MgPr2X4 (XÂ=ÂS, Se) spinels investigations for spintronic and sustainable energy systems applications. Results in Physics, 2021, 20, 103709.	4.1	20
22	Theoretical investigations of half-metallic ferromagnetism in new Halfâ€“Heusler YCrSb and YMnSb alloys using first-principle calculations. Chinese Physics B, 2016, 25, 107402.	1.4	19
23	First-principles study of magnetic and thermoelectric properties of SnFe2O4 and SnCo2O4 spinels. Journal of Solid State Chemistry, 2020, 286, 121279.	2.9	18
24	Study of pressure induced physical properties of ZnZrO3 perovskite using density functional theory. Chemical Physics Letters, 2020, 753, 137601.	2.6	18
25	Optoelectronic and thermoelectric behavior of XIn₂Te₄ (X = Mg, Zn and Cd) for energy harvesting application; DFT approach. Physica Scripta, 2019, 94, 125709.	2.5	17
26	Optoelectronic pressure dependent study of MgZrO3 oxide and ground state thermoelectric response using Ab-initio calculations. Opto-electronics Review, 2019, 27, 194-201.	2.4	16
27	Physical properties of half-Heusler YMnZ (Zâ€¯=â€¯Si, Ge, Sn) compounds via ab-initio study. Solid State Communications, 2018, 278, 10-19.	1.9	15
28	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
29	New lead-free double perovskites A2NaInI6 (AÂ=ÂCs, Rb) for solar cells and renewable energy; first principles analysis. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 273, 115420.	3.5	15
30	Theoretical Investigation of Half-metallic Ferromagnetism in Mg 0 . 7 5 Ti 0 . 2 5 Y (Y = S, Se, Te) Alloys by Using DFT-mBJ Studies. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1387-1397.	1.8	14
31	Half-Metallic Ferromagnetism in New Half-Heusler Compounds: an Ab Initio Study of CrTiX (X = Si, Ge,) Tj ETQq1 1 0.784314 rgBT /Ov	1.8	14
32	Ground state opto-electronic and thermoelectric response of cubic XSnO 3 (XÂ= Ba, Sr) compounds. Current Applied Physics, 2017, 17, 1079-1086.	2.4	14
33	Systematic study of the elastic, optoelectronic, and thermoelectric behavior of MRh2O4 (MÂ=ÂZn, Cd) based on first principles calculations. Journal of Physics and Chemistry of Solids, 2018, 113, 157-163.	4.0	14
34	Spinâ€“orbit coupling effect on energy level splitting and band structure inversion in CsPbBr3. Journal of Materials Science, 2021, 56, 528-542.	3.7	14
35	First-principle study of structural, electronic and magnetic properties of chromium-doped magnesium selenide: An interesting demonstration of half-metallic ferromagnetism. Materials Science in Semiconductor Processing, 2015, 33, 110-118.	4.0	13
36	Novel loss-of-function mutations in COCH cause autosomal recessive nonsyndromic hearing loss. Human Genetics, 2020, 139, 1565-1574.	3.8	13

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37	First-principles study of structural, electronic and optical properties of Zn1â^'xMgxO ternary alloys using modified Beckeâ€"Johnson potential. Materials Science in Semiconductor Processing, 2014, 18, 114-121.	4.0	12
38	Bandgap engineering to tune the optical properties of Be _x Mg _{1â^' x} X (X = S, Se, Te) alloys. Chinese Physics B, 2018, 27, 016101.	1.4	12
39	Spin-polarized calculations of structural, electronic and magnetic properties of Half Heusler alloys FeVX (X=Si, Ge, Sn) using Ab-initio method. Materials Science in Semiconductor Processing, 2016, 51, 48-54.	4.0	11
40	Enhanced ferromagnetic properties of Cu doped two-dimensional GaN monolayer. International Journal of Modern Physics C, 2015, 26, 1550009.	1.7	10
41	Theoretical prediction of optoelectronic and thermoelectric properties of RbXO2 (Xâ€¯=â€¯Al, Ga, In) for renewable energy applications. Chemical Physics Letters, 2019, 728, 87-93.	2.6	10
42	Study of mechanical, electronic and optical properties of PbZrO₃ and PbHfO₃; DFT approach. Materials Research Express, 2019, 6, 066311.	1.6	10
43	First principle study of optoelectronic and thermoelectric properties of (Cs/Rb) AuI3 for clean energy. Materials Science in Semiconductor Processing, 2022, 147, 106759.	4.0	10
44	Optoelectronic and thermoelectrical and mechanical properties of CdLu2X4 (X = S, Se) using first-principles calculations for energy harvesting applications. Materials Science in Semiconductor Processing, 2021, 127, 105695.	4.0	9
45	Ab-initio study of lead-free double Perovskites Cs2AgZBr6 (Z = Bi, Sb) for Solar cells and other renewable energy applications. Journal of Solid State Chemistry, 2022, 306, 122781.	2.9	8
46	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
47	Directional mechanical and thermal properties of single-layer black phosphorus by classical molecular dynamics. Chinese Physics B, 2018, 27, 017401.	1.4	6
48	Investigations of physical aspects of spinel ABi2O4 (A=Zn, Cd) oxides via ab-initio calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1810-1815.	2.1	6
49	Physical properties of alkali metals-based iodides via Ab-initio calculations. Journal of Physics and Chemistry of Solids, 2019, 132, 68-75.	4.0	6
50	Study of Vanadium Difluoride AVF3 (A = Na, K, Rb) for Optoelectronic and Thermoelectric Device Applications via Ab Initio Calculations. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1167-1175.	1.8	6
51	An Optimized Approach for Breast Cancer Classification for Histopathological Images Based on Hybrid Feature Set. Current Medical Imaging, 2021, 17, 136-147.	0.8	6
52	Biallelic in-frame deletion of SOX4 is associated with developmental delay, hypotonia and intellectual disability. European Journal of Human Genetics, 2022, 30, 243-247.	2.8	6
53	COMPARISON OF ELECTRONIC AND OPTICAL PROPERTIES OF GaN MONOLAYER AND BULK STRUCTURE: A FIRST PRINCIPLE STUDY. Surface Review and Letters, 2016, 23, 1650026.	1.1	5
54	Theoretical Investigation of Half-Metallic Oxides XFeO3 (XÂ=ÂSr, Ba) via Modified Beckeâ€"Johnson Potential Scheme. Journal of Electronic Materials, 2018, 47, 2032-2041.	2.2	5

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55	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
56	Electronic properties of two-dimensional ZnO atomically sheet on Cu substrate: a first-principles study. Modern Physics Letters B, 2014, 28, 1450204.	1.9	3
57	Tailoring of Bandgap to Tune the Optical Properties of Ga_{1â^'x}Al_xY (Y = As, Sb) for Solar Cell Applications by Density Functional Theory Approach. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2019, 74, 1131-1138.	1.5	3
58	Optoelectronic pressure dependent study of alkaline earth based zirconates AZrO3 (A = Ca, Ba, Sr) using ab-initio calculations. European Physical Journal B, 2020, 93, 1.	1.5	3
59	First-principles calculations of mechanical, optoelectronic, and thermal properties of double perovskite K2GeCl/Br6 for solar cell applications. Journal of Physics and Chemistry of Solids, 2021, 159, 110295.	4.0	3
60	Dynamic characterization of Cuâ€“Zr binary bulk metallic glasses: A molecular dynamics study. Canadian Journal of Physics, 2017, 95, 1189-1193.	1.1	2
61	Systematic study of optoelectronic and thermoelectric properties of AHfO3 (A = Ca, Ba) perovskites at various pressure via ab-initio calculations. European Physical Journal B, 2020, 93, 1.	1.5	1
62	Pressure-Induced Modifications in the Optoelectronic and Thermoelectric Properties of MgHfO3 for Renewable Energy Applications. Arabian Journal for Science and Engineering, 0, , 1.	3.0	1
63	Study of bandgap tuning of In1-xGaxY (Y = N, P) alloys for optoelectronic applications: abinitio calculations. Chinese Physics B, 0, , .	1.4	1
64	On Theoretical Study of Magnetic Behavior of Diamond Doped with Transition Metals. Acta Physica Polonica A, 2015, 127, 823-826.	0.5	0
65	Molecular Dynamics Study of Surface Anisotropy in $$hbox {Ag}_{60}; hbox {Cu}_{40}$$ Ag 60 Cu 40 Alloy at Nanoscale. International Journal of Thermophysics, 2017, 38, 1.	2.1	0