

Muhammad Isa Khan

List of Publications by Year in descending order

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papers

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citations

623734

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all docs

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37
times ranked

496
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of magnesium oxide nanoparticles using Dalbergia sissoo extract for photocatalytic activity and antibacterial efficacy. Applied Nanoscience (Switzerland), 2020, 10, 2351-2364.	3.1	90
2	Investigation of structural, electronic, magnetic and mechanical properties of a new series of equiatomic quaternary Heusler alloys CoYCrZ (ZÅ= Si, Ge, Ga, Al): A DFT study. Journal of Alloys and Compounds, 2020, 819, 152964.	5.5	71
3	Investigation of in-vitro antibacterial and seed germination properties of green synthesized pure and nickel doped ZnO nanoparticles. Physica B: Condensed Matter, 2021, 601, 412563.	2.7	36
4	A DFT study of bismuthene as anode material for alkali-metal (Li/Na/K)-ion batteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 266, 115061.	3.5	35
5	Enhanced photocatalytic hydrogen energy production of g-C₃N₄-WO₃ composites under visible light irradiation. International Journal of Energy Research, 2018, 42, 4667-4673.	4.5	34
6	A DFT study on a borophene/boron nitride interface for its application as an electrode. Physical Chemistry Chemical Physics, 2020, 22, 3304-3313.	2.8	33
7	A review of the interfacial properties of 2-D materials for energy storage and sensor applications. Chinese Journal of Physics, 2020, 66, 246-257.	3.9	28
8	Dosimetric and radiobiological characterizations of prostate intensity-modulated radiotherapy and volumetric-modulated arc therapy: A single-institution review of ninety cases. Journal of Medical Physics, 2016, 41, 162.	0.3	22
9	Photocatalytic performance of hybrid WO₃/TiO₂ nanomaterials for the degradation of methylene blue under visible light irradiation. International Journal of Environmental Analytical Chemistry, 0, , 1-13.	3.3	21
10	Computational study of borophene/boron nitride (B/BN) interface as a promising gas sensor for industrial affiliated gasses. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 130, 114692.	2.7	20
11	Novel graphene-based transparent electrodes for perovskite solar cells. International Journal of Energy Research, 2018, 42, 4866-4874.	4.5	18
12	Synthesis, characterization and antibacterial activity of NiO NPs against pathogen. Inorganic Chemistry Communication, 2020, 122, 108300.	3.9	18
13	Structural, electronic, magnetic and thermoelectric properties of full heusler alloys Co2YZ (Z = S, Tj ETQq1 1 0.784314 rgBT /Overloc	2.7	18
14	Adsorption mechanism of Palbociclib anticancer drug on two different functionalized nanotubes as a drug delivery vehicle: A first principleâ€™s study. Applied Surface Science, 2021, 546, 149129.	6.1	17
15	Computational insights of alkali metal (Li / Na / K) atom decorated buckled bismuthene for hydrogen storage. International Journal of Hydrogen Energy, 2021, 46, 28700-28708.	7.1	16
16	Theoretical study of structural, electronic and magnetic properties of equiatomic quaternary CoPdCrZ (Z = Si, Ge, P) Heusler alloys. Modern Physics Letters B, 2019, 33, 1950389.	1.9	14
17	Computational study of 4d transition metals doped bismuthene for spintronics. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114464.	2.7	14
18	A DFT study of silver decorated bismuthene for gas sensing properties and effect of humidity. Materials Science in Semiconductor Processing, 2022, 145, 106635.	4.0	14

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19	Ferromagnetism in GaN doped with transition metals and rare-earth elements: A review. Chinese Journal of Physics, 2018, 56, 1570-1577.	3.9	13
20	Efficient biosensing through 1D silver nanostructured devices using plasmonic effect. Nanotechnology, 2018, 29, 385501.	2.6	13
21	Intercalation of Lithium inside Bilayer Buckled Borophene: A First Principles Prospective. Journal of the Electrochemical Society, 2021, 168, 070535.	2.9	13
22	Fabrication of novel hybrid composite La _{2-x} CoxCuO ₄ electrode for high performance supercapacitors. International Journal of Energy Research, 2019, 43, 2361-2368.	4.5	10
23	Determination of structural stability, elastic, thermal and half metallic behavior of CoZrVZ (Z = Al, Tj ETQq1 1 0.784314 rgBT /Overload	2.7	10
24	Preparation and characterization of polyvinylidene fluoride/1-butyl-3-methylimidazolium bromide-based ionogel membranes for desalination applications. International Journal of Environmental Science and Technology, 2019, 16, 7081-7092.	3.5	9
25	Alteration impact of electronic properties of c-SrTiO ₃ on optical response due to Ca inclusion: A DFT study. Physica B: Condensed Matter, 2021, 602, 412553.	2.7	9
26	Theoretical investigation of structural and magnetic properties of MnTiX (X = Si, Ge, Se, Te) half-Heusler alloys. Indian Journal of Physics, 2021, 95, 841-849.	1.8	8
27	Optimization of 1D Plasmonic Grating of Nanostructured Devices for the Investigation of Plasmonic Bandgap. Plasmonics, 2019, 14, 775-783.	3.4	7
28	A computational study of intercalation of streptozotocin (STZ) into DNA base pairs. Journal of Molecular Modeling, 2021, 27, 78.	1.8	4
29	Gadolinium-based olivine phosphate for upgradation of cathode material in lithium ion battery. Journal of Materials Science: Materials in Electronics, 2020, 31, 7324-7334.	2.2	3
30	Theoretical approach to explore structural, electronic, magnetic, elastic and thermal characteristics of Heusler alloys CoYTiz (Z = Al, Ga, Si, Ge). International Journal of Modern Physics B, 2021, 35, .	2.0	3
31	Doped TiO ₂ slabs for water splitting: a DFT study. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2022, 77, 603-612.	1.5	3
32	Commissioning and evaluation of a radiochromic EBT3 film dosimetry system. Journal of Radiotherapy in Practice, 2019, 18, 55-62.	0.5	2
33	Correlation between electronic and optical responses of intrinsic and Cd-doped c-SrHfO ₃ : A computational insight. Physica B: Condensed Matter, 2021, 605, 412493.	2.7	2
34	Theoretical investigation of structural, topological, mechanical and thermal behavior of SrPtS and BaPtS Heusler alloys. Physica Scripta, 2022, 97, 055703.	2.5	2
35	Selection of gamma analysis acceptance criteria in IMRT QA using Gafchromic EBT3 film dosimetry. Journal of Radiotherapy in Practice, 2019, 18, 127-131.	0.5	1
36	Comparison of ^{99m} Tc Injected Activity with Prescribed Activity in Four Types of Nuclear Medicine Exams. Current Radiopharmaceuticals, 2020, 13, 80-85.	0.8	1

#	ARTICLE	IF	CITATIONS
37	Iodide Adsorption on Transition-Metal-Doped SiC Monolayers: A Density Functional Theory Based Bonding Analysis. Journal of Electronic Materials, 2021, 50, 3546-3556.	2.2	0