

Rajwali Khan

List of Publications by Year in descending order

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71
papers

1,295
citations

331670

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434195

31
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docs citations

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times ranked

1224
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, electronic, elastic, and magnetic properties of NaQF_3 ($\text{Q} = \text{Ag, Pb}$) Tj ETQq1 1 0.784314 rgBT (2022, 46, 2446-2453.	4.5	39
2	Modeling structural, elastic, electronic and optical properties of ternary cubic barium based fluoroperovskites MBaF_3 ($\text{M} = \text{Ga}$ and In) compounds based on DFT. Materials Science in Semiconductor Processing, 2022, 139, 106345.	4.0	30
3	High performance and gate-controlled GeSe/HfS_2 negative differential resistance device. RSC Advances, 2022, 12, 1278-1286.	3.6	9
4	The structural and dilute magnetic properties of (Co, Li) co-doped-ZnO semiconductor nanoparticles. MRS Communications, 2022, 12, 154-159.	1.8	12
5	First-principal investigations of electronic, structural, elastic and optical properties of the fluoroperovskite TlLF_3 ($\text{L} = \text{Ca, Cd}$) compounds for optoelectronic applications. RSC Advances, 2022, 12, 7002-7008.	3.6	33
6	Insight into the exemplary structural, elastic, electronic and optical nature of GaBeCl_3 and InBeCl_3 : a DFT study. RSC Advances, 2022, 12, 8172-8177.	3.6	6
7	Insight into the Exemplary Physical Properties of Zn-Based Fluoroperovskite Compounds XZnF_3 ($\text{X} = \text{Al}$), Tj ETQq1 1 0.784314 rgBT /Ove	2.9	14
8	The effect of Mn and Co dual-doping on the structural, optical, dielectric and magnetic properties of ZnO nanostructures. RSC Advances, 2022, 12, 11923-11932.	3.6	31
9	Observation of quantum criticality in antiferromagnetic based $(\text{Ce}_{1-y})_2\text{Ir}_3\text{Ge}_5$ Kondo-Lattice system. Journal of Magnetism and Magnetic Materials, 2022, 556, 169361.	2.3	10
10	Impact of the KKL Correlation Model on the Activation of Thermal Energy for the Hybrid Nanofluid (GO+ZnO+Water) Flow through Permeable Vertically Rotating Surface. Energies, 2022, 15, 2872.	3.1	23
11	Optimization of Single \hat{I}_{\pm} -Phase for Promoting Ferromagnetic Properties of $44\text{Fe}\hat{e}^{\text{28Cr}\hat{e}^{\text{22Co}\hat{e}^{\text{3Mo}\hat{e}^{\text{1Ti}\hat{e}^{\text{2V}}$ Permanent Magnet with Varying Co Concentration for Energy Storage.2.9 Materials, 2022, 15, 2344.	2.9	2
12	Diluted magnetic semiconductor properties in TM doped ZnO nanoparticles. RSC Advances, 2022, 12, 13456-13463.	3.6	31
13	Exploring the exemplary structural, electronic, optical, and elastic nature of inorganic ternary cubic XBaF_3 ($\text{X} = \text{Al}$ and Tl) employing the accurate TB-mBJ approach. Semiconductor Science and Technology, 2022, 37, 075004.	2.0	20
14	Enhancing the physical properties and photocatalytic activity of TiO_2 nanoparticles <i>via</i> cobalt doping. RSC Advances, 2022, 12, 15767-15774.	3.6	15
15	Impact of viscous dissipation and coriolis effects in heat and mass transfer analysis of the 3D non-Newtonian fluid flow. Case Studies in Thermal Engineering, 2022, 37, 102289.	5.7	14
16	Environmental effect on structural, magnetic, and dielectric properties of BFO nanostructure and its solar cell applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 3313-3323.	2.2	7
17	Fast and high photoresponsivity gallium telluride/hafnium selenide van der Waals heterostructure photodiode. Journal of Materials Chemistry C, 2021, 9, 7110-7118.	5.5	10
18	Oxygen vacancies induced variations in structural, optical and dielectric properties of $\text{SnO}_2/\text{graphite}$ nanocomposite. Journal of Materials Science: Materials in Electronics, 2021, 32, 1402-1412.	2.2	11

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19	Oxygen vacancies induced room temperature ferromagnetism and enhanced dielectric properties in Co and Mn co-doped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 9463-9474.	2.2	28
20	Dielectric and ferromagnetic properties of (Ni, Co) co-doped SnO ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 19859-19870.	2.2	8
21	Effect of Sn-doping on the structural, optical, dielectric and magnetic properties of ZnO nanoparticles for spintronics applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 21631-21642.	2.2	15
22	High-Performance coupled plasmon waveguide resonance optical sensor based on SiO ₂ :Ag film. <i>Results in Physics</i> , 2021, 26, 104308.	4.1	10
23	In silico genomic and proteomic analyses of three heat shock proteins (HSP70, HSP90- α , and HSP90- β) in even-toed ungulates. <i>Electronic Journal of Biotechnology</i> , 2021, 53, 61-70.	2.2	16
24	Structure and magnetic properties of (Co, Ce) co-doped ZnO-based diluted magnetic semiconductor nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24394-24400.	2.2	13
25	Insight into metallic oxide semiconductor (SnO ₂ , ZnO, CuO, α -Fe ₂ O ₃ , WO ₃)-carbon nitride (g-C ₃ N ₄) heterojunction for gas sensing application. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113128.	4.1	45
26	Oxide-based resistive switching-based devices: fabrication, influence parameters and applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15755-15788.	5.5	38
27	Effect of Sr and Co co-doping on the TiO ₂ -diluted magnetic semiconductor for spintronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 28718-28729.	2.2	6
28	Electrical and Optical Properties of Indium and Lead Co-Doped Cd _{0.9} Zn _{0.1} Te. <i>Materials</i> , 2021, 14, 5825.	2.9	1
29	Electrical and hysteric properties of organic compound-based humidity sensor and its dualistic interactive approach to H ₂ O molecules. <i>Materials Today Communications</i> , 2021, 29, 102882.	1.9	3
30	Computational investigation of structural, magnetic, elastic, and electronic properties of Half-Heusler ScVX (X = Si, Ge, Sn, and Pb) compounds. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	10
31	Investigation of structural, optical, dielectric and magnetic properties of SnO ₂ nanorods and nanospheres. <i>Materials Chemistry and Physics</i> , 2020, 241, 122382.	4.0	24
32	The prevalence of <i>Clostridium perfringens</i> in retail meat of Mardan, Pakistan. <i>Turkish Journal of Veterinary and Animal Sciences</i> , 2020, 44, 618-623.	0.5	1
33	Variations in structural, optical, and dielectric properties of CuO nanostructures with thermal decomposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10649-10656.	2.2	4
34	Resistive- and capacitive-type humidity and temperature sensors based on a novel caged nickel sulfide for environmental monitoring. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3557-3563.	2.2	10
35	Study of structural, optical and dielectric properties of α -MnO ₂ nanotubes (NTS). <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19199-19205.	2.2	24
36	Influence of Li-Co co-doping on structural and optical properties as well as on antibacterial activity of ZnO. <i>Materials Research Express</i> , 2019, 6, 115037.	1.6	3

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37	A fast self-healing and conductive nanocomposite hydrogel as soft strain sensor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 567, 139-149.	4.7	88
38	Optical band gap and dielectric abnormality in (Sr, Ce, Zr)TiO ₃ composite ceramics sintered in nitrogen. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4572-4579.	2.2	6
39	Dielectric and magnetic properties of cobalt doped $\hat{3}$ -Fe ₂ O ₃ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 13698-13707.	2.2	8
40	Investigation of structural, optical, electrochemical and dielectric properties of SnO ₂ /GO nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10202-10210.	2.2	11
41	Morphological structural and energy storage based study of MoS ₂ /ZnO nanocomposite. <i>Materials Research Express</i> , 2019, 6, 125087.	1.6	6
42	Effect of thermal calcination on the structural, dielectric and magnetic properties of (ZnO \hat{e} Ni) semiconductor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3396-3404.	2.2	19
43	Dielectric abnormality and high-permittivity microwave dielectric properties of SrO-TiO ₂ -CeO ₂ solid solution. <i>Ceramics International</i> , 2019, 45, 3634-3642.	4.8	18
44	Recent work on electrochemical deposition of Zn-Ni (-X) alloys for corrosion protection of steel. <i>Anti-Corrosion Methods and Materials</i> , 2019, 66, 45-60.	1.5	17
45	Electrodeposition of high corrosion resistant Ni \hat{e} Sn \hat{e} P alloy coatings from an ionic liquid based on choline chloride. <i>Transactions of the Institute of Metal Finishing</i> , 2018, 96, 20-26.	1.3	8
46	Influence of oxygen vacancies on the structural, dielectric, and magnetic properties of (Mn, Co) co-doped ZnO nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9785-9795.	2.2	36
47	Structure and magnetic properties of (Co, Mn) co-doped ZnO diluted magnetic semiconductor nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 32-37.	2.2	19
48	Structural, optical, dielectric and magnetic properties of PVP coated magnetite (Fe ₃ O ₄) nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20040-20050.	2.2	31
49	Efficient Solar Light Driven Photocatalytic Degradation of Congo Red Dye on CdS Nanostructures Derived from Single Source Precursor. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7405-7413.	0.9	11
50	Quantum critical behavior in an antiferromagnetic heavy-fermion Kondo lattice system (Ce _{1-x} La _x) ₂ Ir ₃ Ge ₅ . <i>Chinese Physics B</i> , 2017, 26, 017401.	1.4	3
51	Variation of structural, optical, dielectric and magnetic properties of SnO ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4625-4636.	2.2	30
52	Ternary Zn \hat{e} Mn \hat{e} Sn alloy electrodeposition from an ionic liquid based on choline chloride. <i>Transactions of the Institute of Metal Finishing</i> , 2017, 95, 217-225.	1.3	4
53	Effect of annealing on Ni-doped ZnO nanoparticles synthesized by the co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10122-10130.	2.2	19
54	Solar-light driven photocatalytic conversion of p-nitrophenol to p-aminophenol on CdS nanosheets and nanorods. <i>Inorganic Chemistry Communication</i> , 2017, 79, 99-103.	3.9	18

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55	Effect of annealing temperature on the dielectric and magnetic response of (Co, Zn) co-doped SnO ₂ nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 2673-2679.	2.2	10
56	Structural, dielectric and magnetic properties of (Al, Ni) co-doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 4333-4339.	2.2	32
57	Ferromagnetic quantum critical behavior in heavy-fermion compounds CeTi _{1-x} Ni _x Ge ₃ . Materials Research Express, 2016, 3, 106101.	1.6	9
58	Large low field magnetocaloric effect in first-order phase transition compound TlFe ₃ Te ₃ with low-level hysteresis. Scientific Reports, 2016, 6, 34235.	3.3	4
59	Effects of Ni co-doping concentrations on dielectric and magnetic properties of (Co, Ni) co-doped SnO ₂ nanoparticles. Journal of Materials Science: Materials in Electronics, 2016, 27, 7725-7730.	2.2	19
60	Electrodeposition of ternary Zn-Ni-Sn alloys from an ionic liquid based on choline chloride and their characterisation. Transactions of the Institute of Metal Finishing, 2016, 94, 237-245.	1.3	7
61	Comparison between axial and radial melt stirring on purification of industrial aluminum during Ohno Continuous Casting. Engineering Science and Technology, an International Journal, 2016, 19, 2100-2108.	3.2	3
62	Effect of air annealing on the structure, dielectric and magnetic properties of (Co, Ni) co-doped SnO ₂ nanoparticles. Journal of Materials Science: Materials in Electronics, 2016, 27, 10532-10540.	2.2	20
63	CdS nanocapsules and nanospheres as efficient solar light-driven photocatalysts for degradation of Congo red dye. Inorganic Chemistry Communication, 2016, 72, 33-41.	3.9	47
64	Variation of structural, dielectric and magnetic properties of PVP coated γ -Fe ₂ O ₃ nanoparticles. Journal of Materials Science: Materials in Electronics, 2016, 27, 12490-12498.	2.2	14
65	Large unsaturated positive and negative magnetoresistance in Weyl semimetal TaP. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	90
66	Magnetic and dielectric properties of (Co, Zn) co-doped SnO ₂ diluted magnetic semiconducting nanoparticles. Journal of Materials Science: Materials in Electronics, 2016, 27, 5960-5966.	2.2	30
67	Effect of annealing on structural, dielectric, transport and magnetic properties of (Zn, Co) co-doped SnO ₂ nanoparticles. Journal of Materials Science: Materials in Electronics, 2016, 27, 4003-4010.	2.2	26
68	Superconductivity and disorder effect in TlNi ₂ Se _{2-x} S _x compounds. Journal of Physics Condensed Matter, 2015, 27, 395701.	1.8	2
69	Phase diagram and annealing effect for Fe _{1-x} Te _{1-x} S _x single crystals. Journal of Physics Condensed Matter, 2013, 25, 385701.	1.8	8
70	Multiband Superconductivity of Heavy Electrons in a TlNi ₂ Se ₂ Single Crystal. Physical Review Letters, 2013, 111, 207001.	7.8	40
71	Magnetic and critical properties of Cr _{1/3} NbS _{1.86} with T _C = 56 K. Physica Status Solidi - Rapid Research Letters, 0, , 2100410.	2.4	3