

Rishi Pal Chauhan

List of Publications by Year in descending order

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73
papers

984
citations

516710

16
h-index

526287

27
g-index

73
all docs

73
docs citations

73
times ranked

969
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial and antifungal activity of chitosan coated iron oxide nanoparticles. British Journal of Biomedical Science, 2018, 75, 13-18.	1.3	133
2	Modeling of indoor radon concentration from radon exhalation rates of building materials and validation through measurements. Journal of Environmental Radioactivity, 2014, 127, 50-55.	1.7	64
3	Study of indoor radon distribution using measurements and CFD modeling. Journal of Environmental Radioactivity, 2014, 136, 105-111.	1.7	53
4	Estimation of naturally occurring radionuclides in fertilizers using gamma spectrometry and elemental analysis by XRF and XRD techniques. Microchemical Journal, 2013, 106, 73-78.	4.5	47
5	Ventilation effect on indoor radon and thoron levels in dwellings and correlation with soil exhalation rates. Indoor and Built Environment, 2016, 25, 203-212.	2.8	33
6	Eco-friendly nanocellulose and its biomedical applications: current status and future prospect. Journal of Biomaterials Science, Polymer Edition, 2021, 32, 112-149.	3.5	30
7	Hydrothermal synthesis and characterization of silica nanowires using rice husk ash: an agricultural waste. Journal of Materials Science: Materials in Electronics, 2018, 29, 6225-6231.	2.2	28
8	Gamma irradiation induced modifications in spin coated CdSe thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 11674-11681.	2.2	25
9	Study of radon transport through concrete modified with silica fume. Radiation Measurements, 2013, 59, 59-65.	1.4	23
10	Active and passive measurements of radon diffusion coefficient from building construction materials. Environmental Earth Sciences, 2014, 72, 251-257.	2.7	21
11	Effect of gamma irradiation on transport of charge carriers in Cu nanowires. Applied Physics A: Materials Science and Processing, 2012, 106, 157-164.	2.3	20
12	Structural, optical and electrical properties of gamma-rays exposed selenium nanowires. Journal of Materials Science: Materials in Electronics, 2016, 27, 8087-8093.	2.2	20
13	Estimation of natural radionuclide and exhalation rates of environmental radioactive pollutants from the soil of northern India. Nuclear Engineering and Technology, 2020, 52, 1289-1296.	2.3	20
14	Ion beam fluence induced variation in optical band-gap of ZnO nanowires. Journal of Experimental Nanoscience, 2014, 9, 871-876.	2.4	18
15	Modifications induced by silicon and nickel ion beams in the electrical conductivity of zinc nanowires. Journal of Materials Science: Materials in Electronics, 2013, 24, 4302-4310.	2.2	17
16	Measurement of indoor radon, thoron and their progeny levels in dwellings of Union Territory Chandigarh, India: correlation with radon exhalation rates. Indoor and Built Environment, 2015, 24, 833-842.	2.8	17
17	Facile synthesis of nanocellulose from wheat straw as an agricultural waste. Iranian Polymer Journal (English Edition), 2022, 31, 771-778.	2.4	17
18	Estimation of dose contribution from ²²⁶ Ra, ²³² Th and ⁴⁰ K radon exhalation rates in soil samples from Shivalik foot hills in India. Radiation Protection Dosimetry, 2014, 158, 79-86.	0.8	16

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19	Effects of annealing on structural and magnetic properties of template synthesized cobalt nanowires useful as data storage and nano devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 124-127.	2.2	16
20	Estimation of radionuclides content and radon/thoron exhalation from commonly used building materials in India. <i>Environmental Earth Sciences</i> , 2015, 74, 1539-1546.	2.7	16
21	Implications of variability in Indoor radon/thoron levels: a study of dwellings in Haryana, India. <i>Environmental Earth Sciences</i> , 2015, 73, 4033-4042.	2.7	15
22	Active-passive measurements and CFD based modelling for indoor radon dispersion study. <i>Journal of Environmental Radioactivity</i> , 2015, 144, 57-61.	1.7	14
23	Back diffusion correction for radon exhalation rates of common building materials using active measurements. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 919-928.	3.1	14
24	Swift heavy ion induced modifications in optical and electrical properties of cadmium selenide thin films. <i>Electronic Materials Letters</i> , 2017, 13, 330-338.	2.2	14
25	Nitrogen ion implantation effects on the structural, optical and electrical properties of CdSe thin film. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12595-12602.	2.2	14
26	Effect of SHI on properties of template synthesized Cu nanowires. <i>Ionics</i> , 2019, 25, 341-352.	2.4	14
27	Calculation of radon diffusion coefficient and diffusion length for different building construction materials. <i>Indian Journal of Physics</i> , 2009, 83, 1171-1175.	1.8	13
28	Soil to plant transfer of alpha activity in potato plants: impact of phosphate fertilizers. <i>Journal of Environmental Health Science & Engineering</i> , 2015, 13, 45.	3.0	13
29	Structural, optical and electrical properties of ion beam irradiated cadmium selenate nanowires. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 5630-5637.	2.2	12
30	Monitoring of radon, thoron, their progeny concentrations in dwellings, and radon exhalation rates of soil/sand of Rupnagar district, Punjab, India. <i>Environmental Earth Sciences</i> , 2015, 74, 4145-4155.	2.7	12
31	Temperature effect on properties of chemical induced nanocrystalline ZnSe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8801-8808.	2.2	12
32	Krypton ion implantation effect on selenium nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2636-2642.	2.1	11
33	Effect of temperature on properties of cadmium sulfide nanostructures synthesized by solvothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2676-2685.	2.2	11
34	Effect of Ar^{+} ion implantation on the properties of electrodeposited CdTe thin films. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	10
35	Enhanced field emission from copper nanowires synthesized using ion track-etch membranes as scaffolds. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 19013-19027.	2.2	10
36	Thickness dependent variation in structural, optical and electrical properties of CdSe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5753-5759.	2.2	10

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37	Variation in Structural, Electrical and Optical Properties of Selenium Nanowires After Irradiation with Ni ⁶⁺ Ions. <i>Electronic Materials Letters</i> , 2019, 15, 216-226.	2.2	10
38	Radiation induced nano-scale free volume modifications in amorphous polymeric material: a study using positron annihilation lifetime spectroscopy. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 1659-1666.	1.5	9
39	Effect of deposition temperature on structural, optical and electrical properties of nanocrystalline SnSe thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 2487-2493.	2.2	9
40	Substrate temperature dependent variation in the properties of cadmium telluride thin films deposited on glass. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1345-1353.	2.2	9
41	Environmental radon: Health aspects and present status in northern India. <i>Indoor and Built Environment</i> , 2015, 24, 52-62.	2.8	8
42	Study of structural, optical and electrical parameters of ZnSe powder and thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 8359-8365.	2.2	8
43	Measurement of radium, thorium, potassium and associated hazard indices from the soil samples collected from Northern India. <i>Indoor and Built Environment</i> , 2018, 27, 1149-1156.	2.8	8
44	Electrical characterization of nanocrystalline SnSe and ZnSe thin films: effect of annealing. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13614-13619.	2.2	8
45	A study on radionuclides content and radon exhalation from soil of Northern India. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	2.7	8
46	Effect of O ⁵⁺ ion implantation on the electrical and structural properties of Cu nanowires. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 302, 851-856.	1.5	7
47	Variation in alpha radioactivity of plants with the use of different fertilizers and radon measurement in fertilized soil samples. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 70.	3.0	7
48	Radon diffusion and exhalation from mortar modified with fly ash: waste utilization and benefits in construction. <i>Journal of Material Cycles and Waste Management</i> , 2017, 19, 318-325.	3.0	7
49	Ion beam-induced variation in electrical conductivity of Ag nanowires. <i>Radiation Effects and Defects in Solids</i> , 2013, 168, 484-489.	1.2	6
50	MEASUREMENT OF INDOOR RADON AND THORON IN AIR AND EXHALATION FROM SOIL IN THE ENVIRONMENT OF WESTERN HARYANA, INDIA. <i>Radiation Protection Dosimetry</i> , 2016, 171, 248-253.	0.8	6
51	Effect of Neutron Exposure on Transport of Charge Carriers in Poly-Crystalline Cu Nanowires. <i>Science of Advanced Materials</i> , 2012, 4, 1134-1141.	0.7	6
52	Elemental analysis of fertilizers using X-ray fluorescence and their impact on alpha radioactivity of plants. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 295, 1097-1105.	1.5	5
53	Ion implantation effects of negative oxygen on copper nanowires. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9998-10006.	2.2	4
54	Formulation of normal tissue irradiation volumes in Co-60 and Ir-192 HDR ICBT of Ca cervix using Total Reference Air Kerma (TRAK). <i>Reports of Practical Oncology and Radiotherapy</i> , 2019, 24, 568-575.	0.6	4

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55	Radon, thoron and their progeny levels in some dwellings of northern Haryana, India using SSNTDs. Indian Journal of Physics, 2009, 83, 1197-1200.	1.8	3
56	Proton implantation effect on CdSe nanowires. Journal of Materials Science: Materials in Electronics, 2017, 28, 3175-3184.	2.2	3
57	Detection of H ₂ O ₂ by Fe ₃ O ₄ /CdTe magnetic/fluorescent nanocomposites. Journal of Materials Science: Materials in Electronics, 2018, 29, 16673-16679.	2.2	3
58	Experimental conditions induced variation in Texture Coefficient of Crystal planes in Cu ⁺ •CuO Nanostructures. , 2011, , .		2
59	Ar ⁺ Ion Implantation Induced Surface, Structural and Optical Modifications in Cadmium Selenide Thin Films. Journal of Electronic Materials, 2018, 47, 5889-5895.	2.2	2
60	Measurement of optimal thickness of radon-resistant materials for insulation using diffusion coefficient. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 425-431.	1.5	2
61	Implications on dose estimation and dispersion patterns of thoron in a typical indoor environment. Radiation and Environmental Biophysics, 2021, 60, 309-316.	1.4	2
62	Visible light-motivated photo-catalytic activity of CdS ⁺ Cu ₉ S ₅ heterostructure for degradation of methylene blue. Applied Nanoscience (Switzerland), 2022, 12, 1683-1696.	3.1	2
63	Study of size dependent variation in electrical and structural properties of zinc nanowires. Journal of Materials Science: Materials in Electronics, 2015, 26, 5295-5302.	2.2	1
64	Radiation doses due to background radioactivity in soil from inhabited area of Northern Haryana. AIP Conference Proceedings, 2019, , .	0.4	1
65	A technique to increase the treatment plan indices in GammaKnife: A retrospective study. Journal of Radiosurgery and SBRT, 2021, 7, 245-248.	0.2	1
66	Effect of gamma irradiation on electrical properties of Cu nanowires. , 2014, , .		0
67	Texture coefficient analysis of ion beam irradiated copper nanowires. AIP Conference Proceedings, 2016, , .	0.4	0
68	Antenna Azimuthal Position Control Using Model Predictive Control. , 2019, , .		0
69	Effect of nitrogen ion implantation on the properties of cadmium telluride thin films. AIP Conference Proceedings, 2019, , .	0.4	0
70	Nickel ion beam induced modifications in Cu ⁺ Se heterojunction nanowires. Journal of Materials Science: Materials in Electronics, 2020, 31, 693-703.	2.2	0
71	Impact of N ⁺ ion implantation on the properties of ZnSe thin films. Journal of Materials Science: Materials in Electronics, 2021, 32, 6185-6198.	2.2	0
72	Simulating the Dispersion Behavior of Indoor Thoron Using Computational Fluid Dynamics (CFD). Mapan - Journal of Metrology Society of India, 0, , .	1.5	0

#	ARTICLE	IF	CITATIONS
73	Plant metabolites assisted green synthesis of ZnSe: structural, optical and transport properties. Chemical Papers, 0, , .	2.2	0