

## **Profile Page**



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Qualification : Ph.D. Nuclear Physics (GNDU, Amritsar)  
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### **Research Interests :**

1. Radon and Thoron Studies in the Human Environment.
2. Track etching and annealing studies in Minerals and applications in geothermal studies.
3. Health Risk Assessments due to Natural Radiation Dose from the environment
4. Heavy-ion radiation damage studies in track recorders and assessment of radiation dose due to building materials.
5. Radiation-induced modifications in polymeric track detectors.
6. Physico-chemical investigations and the estimation of uranium and other heavy toxic metals in drinking water samples for health risk assessments.

### **Other Profile Links :**

#### **Google Scholar Link :**

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## Journal Publications :

Year	Journal	Publication
2023	Liquid Crystals. DOI: <a href="https://doi.org/10.1080/02678292.2023.2190172">https://doi.org/10.1080/02678292.2023.2190172</a>	R. K. Shukla, P. Rani, A. Choudhary, P. Malik, R. Mehra, K.K. Raina: Polymer Dispersed Liquid Crystals Devices: Role of Photopolymerization to Control Defect Orientation, Optical and Electro-optical Properties.
2023	Environmental Monitoring and Assessment. DOI: <a href="https://doi.org/10.1007/s10661-023-11154-4">https://doi.org/10.1007/s10661-023-11154-4</a>	Arti, Rohit Mehra: Analysis of Heavy Metals and Toxicity Level in the Tannery Effluent and the environs.
2023	Environmental Monitoring and Assessment, DOI: <a href="https://doi.org/10.1007/s10661-023-10959-7">https://doi.org/10.1007/s10661-023-10959-7</a>	Pargin Bangotra, Rajan Jakhu, Mukesh Prasad, R. S. Aswal, Ansumali Ashish, Zainab Mushtaq, Rohit Mehra: Investigation of heavy metal contamination and associated health risks in groundwater sources of southwestern Punjab, India
2022	Journal of Radioanalytical and Nuclear Chemistry, 331, pages 1889–1897. <a href="https://doi.org/10.1007/s10967-021-08129-5">https://doi.org/10.1007/s10967-021-08129-5</a>	Supriya Rani, Sandeep Kansal, Amit Kumar Singla, Salik Nazir, Rohit Mehra: A comprehensive study of exhalation rates in soil samples to understand the high risk potential area in Barnala and Moga districts of Punjab, India
2022	Environmental Geochemistry and Health. <a href="https://doi.org/10.1007/s10653-022-01304-x">https://doi.org/10.1007/s10653-022-01304-x</a>	Amit Kumar Singla, Sandeep Kanse, Sandeep Kansal, Supriya Rani, Rohit Mehra: A comprehensive study of radon in drinking waters of Hanumangarh district using scintillation based detector and the assessment of resulting dose to local population
2022	Journal of Luminescence, Volume 252, December 2022, 119383 DOI: <a href="https://doi.org/10.1016/j.jlumin.2022.119383">https://doi.org/10.1016/j.jlumin.2022.119383</a>	Sansar Chand, Rohit Mehra, Vibha Chopra: Recent Advancements in Calcium Based Phosphate Materials for Luminescence Applications
2022	Natural Hazards, <a href="https://doi.org/10.1007/s11069-021-05134-5">https://doi.org/10.1007/s11069-021-05134-5</a>	Gulshan Kumar, Reetika Bhadwal, Mukesh Kumar, Punam Kumari, Arvind Kumar, Vivek Walia, Rohit Mehra & Ayush Goyal : Radioactivity monitoring in the vicinity of Jawalamukhi thrust NW Himalaya, India for tectonic study.
2022	Scientific Reports, Vol. 12, 2286 (2022). <a href="https://doi.org/10.1038/s41598-022-05770-2">https://doi.org/10.1038/s41598-022-05770-2</a>	P. Pandit, Atul Saini, Sabarathinam Chidhambaram, Vinod Kumar, Banjarani Panda, A. L. Ramanathan, Netrananda Sahu, A. K. Singh & Rohit Mehra: Tracing geochemical sources and health risk assessment of uranium in groundwater of arid zone of India.
2022	IOP: Journal of Physics: Conference Series. 2267(1):012123,DOI: 10.1088/1742-6596/2267/1/012123	Punam Kumari, Gulshan Kumar, Sangeeta Prasher, Mukesh Kumar, Sushil Kumar, Rohit Mehra and Sarabjot Kaur : Mathematical Modelling to estimate Radon exhalation rates: A study on soil samples from Pangri valley of Chamba district, Himachal Pradesh, India
2021	Journal of Radioanalytical and Nuclear Chemistry, DOI: <a href="https://doi.org/10.1007/s10967-021-07930-6">https://doi.org/10.1007/s10967-021-07930-6</a>	Amit Kumar Singla, Sandeep Kansal, Supriya Rani, Rohit Mehra: Radiological risk assessment due to attached/unattached fractions of radon and thoron progeny in Hanumangarh district, Rajasthan
2021	Environmental Geochemistry and Health, DOI: <a href="https://doi.org/10.1007/s10653-021-01012-y">https://doi.org/10.1007/s10653-021-01012-y</a>	Supriya Rani, Sandeep Kansal, Amit Kumar Singla, Rohit Mehra: Radiological risk assessment to the public due to presence of radon in water of Barnala district, Punjab, India
2021	Journal of Radioanalytical and Nuclear Chemistry. DOI: <a href="https://doi.org/10.1007/s10967-021-07998-0">https://doi.org/10.1007/s10967-021-07998-0</a>	Rohit Mehra, Sarabjot Kaur, Sansar Chand, Chanchal Charan, Manik Mehta: Dosimetric Assessment of Primordial Radionuclides in Soil and Groundwater of Sikar District, Rajasthan

2021	Environmental Geochemistry and Health, DOI: <a href="https://doi.org/10.1007/s10653-021-01103-w">https://doi.org/10.1007/s10653-021-01103-w</a>	Naveen Thakur, Reetika Bhadwal, Jitender Kumar, Manpreet Kaur, Rohit Mehra, Ajay Kumar : Effect of natural radionuclide's in the environment along the Jwalamukhi thrust of Himachal Pradesh, North West Himalayas, India
2021	Environmental Technology & Innovation, • 21(12):101360, DOI: 10.1016/j.eti.2021.101360	Pargin Bangotra, Manish Sharma, Rohit Mehra, Rajan Jakhu, Atar Singh, Alok Sagar Gautam, Sneha Gautam: A systematic study of uranium retention in human organs and quantification of radiological and chemical doses from uranium ingestion.
2021	Journal of Radioanalytical and Nuclear Chemistry, DOI: 10.1007/s10967-021-07599-x	Amit Kumar Singla, Sandeep Kansal, Rohit Mehra: Quantification of radon contamination in drinking water of Rajasthan, India
2021	Journal of Radioanalytical and Nuclear Chemistry, DOI: 10.1007/s10967-021-07604-3	Amit Kumar Singla, Sandeep Kansal, Rohit Mehra: Dose distribution to individual tissues and organs due to exposure of alpha energies from radon and thoron to local population of Hanumangarh district of Rajasthan, India.
2021	Environmental Earth Sciences, DOI: <a href="https://doi.org/10.1007/s12665-021-09574-x">https://doi.org/10.1007/s12665-021-09574-x</a>	Punam Kumari, Gulshan Kumar, Sangeeta Prasher, Sarabjot Kaur, Rohit Mehra, Pankaj Kumar and Mukesh Kumar: Evaluation of Uranium and other toxic heavy metals in drinking water of Chamba district, Himachal Pradesh, India for possible health hazards.
2021	International Journal of Environmental Science and Technology, DOI: <a href="https://doi.org/10.1007/s13762-021-03258-6">https://doi.org/10.1007/s13762-021-03258-6</a>	Sarabjot Kaur, Rohit Mehra, Rajesh Kumar: Quantification of health risks and spatial distribution of heavy metals in groundwater of Lower Himalayas, India
2021	Arabian Journal of Geosciences (AJGS), DOI: <a href="https://doi.org/10.1007/s12517-021-07103-5">https://doi.org/10.1007/s12517-021-07103-5</a>	Measurement of Radionuclide contents and $^{222}\text{Rn}/^{220}\text{Rn}$ exhalation rate in soil samples from sub-mountainous region of India
2020	IOP: Journal of Physics: Conference Series	Punam Kumari, Gulshan Kumar, Sangeeta Prasher, Mukesh Kumar, Rohit Mehra and Sarabjot Kaur: Determination of terrestrial radionuclides and related radiological risks in the soils from Pangi Valley of Chamba, Himachal Pradesh, India.
2020	Journal of Molecular Liquids: <a href="https://doi.org/10.1016/j.molliq.2020.113580">https://doi.org/10.1016/j.molliq.2020.113580</a>	A. Chaudhary, R.K. Shukla, P. Malik, R. Mehra, K.K. Raina: Role of $\text{SiO}_2$ optically active mediators to tailor optical and electro-optical properties of ferroelectric liquid crystalline nanocomposites.
2020	Test Engineering and Management	Bangotra, P., Pandit, P., Shankara Narayanan, S., (...), Mehra, R., Arora, M.; Assessment of annual effective dose from equilibrium equivalent concentration of $^{222}\text{Rn}$ and $^{220}\text{Rn}$ in northern zone of Punjab (India)
2020	Indoor and Built Environment; <a href="https://doi.org/10.1177/1420326X19852983">https://doi.org/10.1177/1420326X19852983</a>	Mehra, R., Kaur, S., Prakash, R.; Optimization of fly ash content in cement and assessment of radiological risk
2020	Journal of Radioanalytical and Nuclear Chemistry, DOI: 10.1007/s10967-019-06876-0	Anamika, K., Mehra, R., Malik, P.; Assessment of radiological impacts of natural radionuclides and radon exhalation rate measured in the soil samples of Himalayan foothills of Uttarakhand, India
2020	Chemosphere, <a href="https://doi.org/10.1016/j.chemosphere.2019.124782">https://doi.org/10.1016/j.chemosphere.2019.124782</a>	Duggal, V., Sharma, S., Mehra, R.; Risk assessment of radon in drinking water in Khetri Copper Belt of Rajasthan, India
2020	Environmental Geochemistry and Health; DOI: 10.1007/s10653-019-00294-7	Kaur, M., Kumar, A., Mehra, R., Kaur, I; Quantitative assessment of exposure of heavy metals in groundwater and soil on human health in Reasi district, Jammu and Kashmir; DOI: 10.1007/s10653-019-00294-7

2020	Chemosphere, <a href="https://doi.org/10.1016/j.chemosphere.2020.126857">https://doi.org/10.1016/j.chemosphere.2020.126857</a>	PragyaPandit, PreetiMangala, AtulSaini, ParginBangotra, Vinod Kumar, Rohit Mehra, Dibakar Ghosh; Radiological and pollution risk assessments of terrestrial radionuclides and heavy metals in a mineralized zone of the siwalik region (India);
2020	Radiat Prot Environ 2020;43:XX-XX.	Dhingra M, Kumar M, Mehra R, Sharma N. Assessment of primordial radionuclide contents in soil samples and of impact of coal?based thermal power plant: A study in Tarn Taran district in Punjab, India.
2020	SN Appl. Sci. 2, 1032 (2020). <a href="https://doi.org/10.1007/s42452-020-2833-x">https://doi.org/10.1007/s42452-020-2833-x</a>	Jakhu, R., Mehra, R. & Bangotra, P. Risk assessment of <sup>226</sup> Ra and <sup>222</sup> Rn from the drinking water in the Jalandhar and Kapurthla districts of Punjab.
2020	Luminescence: The Journal of Biological and Chemical Luminescence, <a href="https://doi.org/10.1002/bio.3960">https://doi.org/10.1002/bio.3960</a>	Sansar Chand, Rohit Mehra, Vibha Chopra: Recent Developments in Phosphate Materials for their Applications
2020	Environmental Geochemistry and Health, <a href="https://doi.org/10.1007/s10653-020-00748-3">https://doi.org/10.1007/s10653-020-00748-3</a>	Sarabjot Kaur, Rohit Mehra: Dosimetric impact of natural terrestrial radioactivity on residents of Lower Himalayas, India
2020	Environmental Geochemistry and Health, <a href="https://doi.org/10.1007/s10653-020-00767-0">https://doi.org/10.1007/s10653-020-00767-0</a>	Manpreet Kaur; Ajay Kumar; Rohit Mehra; Rosaline Mishra: Assessment of radon, thoron, and their progeny concentrations in the dwellings of Shiwalik hills of Jammu & Kashmir, India
2019	Indoor and Built Environment, 28(5): 611-618, DOI: 10.1177/1420326X17703773	Manish Kumar, Anjali Kaushal, B K Sahoo, Amit Sarin, Rohit Mehra, Rajan Jakhu, Atul Bhalla, Navjeet Sharma: Measurement of uranium and radon concentration in drinking water samples and assessment of ingestion dose to local population in Jalandhar district of Punjab, India"
2019	Environmental Geochemistry and Health, 41(2): 681-698, DOI: 10.1007/s10653-018-0162-4	Kaur, S., Mehra, R.: Toxicological risk assessment of protracted ingestion of uranium in groundwater
2019	Environmental Monitoring and Assessment, 191(4): 224, DOI: 10.1007/s10661-019-7361-z	Kaur, M., Kumar, A., Mehra, R., Mishra, R.: Age-dependent ingestion and inhalation doses due to intake of uranium and radon in water samples of Shiwalik Himalayas of Jammu and Kashmir, India.
2019	Indoor and Built Environment, 0(0):1-7, DOI: 10.1177/1420326X19852983 <a href="https://journals.sagepub.com/home/ibe">journals.sagepub.com/home/ibe</a>	Mehra Rohit, Kaur Sarabjot, Prakash Rajat: Optimization of fly ash content in cement and assessment of radiological risk.
2019	Environmental Geochemistry and Health, DOI: 10.1007/s10653-019-00294-7	Kaur M, Kumar A, Mehra R, Kaur I.: Quantitative assessment of exposure of heavy metals in groundwater and soil on human health in Reasi district, Jammu and Kashmir
2019	Applied Nanoscience (Switzerland) June 10, 2019; 9(6): 1265-1280, DOI: 10.1007/s13204-019-01084-4	Chauhan, Jagjeewan Ram, Paramjit Singh, Mahanth Prasad, Rohit Mehra, Rajesh Kumar: High-energy 120 MeV Au <sup>9+</sup> ion beam-induced modifications and evaluation of craters in surface morphology of SnO <sub>2</sub> and TiO <sub>2</sub> nanocomposite thin films.
2019	Ceramics International, 45(15): 18887-18898, DOI: 10.1016/j.ceramint.2019.06.124	Vikas Kumar, Rashi Gupta, Vishnu Chauhan, Jagjeewan Ram, Paramjit Singh, Mahanth Prasad, Rohit Mehra, Rajesh Kumar: High energy (150?MeV) Fe <sup>11+</sup> ion beam induced modifications of physico-chemical and photoluminescence properties of high-k dielectric nanocrystalline zirconium oxide thin films
2019	Current Applied Physics, 19:1374-1378, DOI: 10.1016/j.cap.2019.08.026	A. Chaudhary, R.K. Shukla, P. Malik, R. Mehra, K.K. Raina: ZnO/FLC nanocomposites with low driving voltage and non-volatile memory for information storage applications

2019	Journal of Soils and Sediments, 19(3): 1441-1455, DOI: 10.1007/s11368-018-2125-x, pp. 1-15	Sumit Sharma, Ajay Kumar, Rohit Mehra, Rosaline Mishra: Radiation hazards associated with radionuclides and theoretical evaluation of indoor radon concentration from soil exhalation of Udhampur District, Jammu and Kashmir State, India
2019	Scientific Reports 9(1),2515, DOI:10.1038/s41598-019-38871-6	Pargin Bangotra, Rohit Mehra, Rajan Jakhu, Pragya Pandit & Mukesh Prasad: Quantification of an alpha flux based radiological dose from seasonal exposure to <sup>222</sup> Rn, <sup>220</sup> Rn and their different EEC species
2019	Luminescence, 34(2): 212-221, DOI: 10.1002/bio.3598	Pragya Pandit, Shailendra Kumar, Manoj Mohapatra, Pargin Bangotra, Rohit Mehra, A.K. Singh: Structural, photoluminescence and dielectric investigations of phosphatic shale
2019	Radiation Protection Dosimetry, 1-13, DOI: 10.1093/rpd/ncz157	Sharma Sumit, Kumar Ajay, Mehra Rohit, Kaur Ranbir: Ingestion and inhalation doses due to intake of radon in drinking water samples of Amritsar province, Punjab, India.
2019	Journal of Radioanalytical and Nuclear Chemistry, <a href="https://doi.org/10.1007/s10967-019-06876-0">https://doi.org/10.1007/s10967-019-06876-0</a>	Anamika, K., Mehra, R. & Malik, P.: Assessment of radiological impacts of natural radionuclides and radon exhalation rate measured in the soil samples of Himalayan foothills of Uttarakhand, India
2019	Asian Journal of Biological and Life Sciences, May-Aug, 2019, 8(2), Pages 69, DOI : 10.5530/ajbls.2019.8.12	Kirandeep Kaur, Manmohan Singh Heer, Rohit Mehra, HS Sahota: Seasonal Variation of Indoor Radon ( <sup>222</sup> Ra) and Thoron ( <sup>220</sup> Rn) in the Dwellings of Bathinda District of Punjab, India
2019	Radiation Protection Dosimetry (In Press)	Sarabjot Kaur, Poorvi Maheshwari, Rohit Mehra: Dose assessment of natural terrestrial radionuclides in commonly consumed foods in North India
2019	Nature Environment and Pollution Technology, 18(4) p-ISSN: 0972-6268 e-ISSN: 2395-3454	Amit Arora, Rohit Mehra, Rajeev Garg and Anand Kumar Tyagi: Assessment of Annual Effective Dose from the Indoor Radon in Bathinda District of Punjab in India
2019	Radiation Protection Dosimetry, <a href="https://doi.org/10.1093/rpd/ncz271">https://doi.org/10.1093/rpd/ncz271</a>	S Sharma, A Kumar, R Mehra, R Mishra: Assessment of dose due to ambient Rn <sup>222</sup> /Rn <sup>220</sup> progeny in different dwellings of Jammu and Kashmir State, India
2018	Environmental Geochemistry and Health, 40(2): 815-831, DOI: 10.1007/s10653-017-0027-2	Ajay Kumar, Sumit Sharma, Rohit Mehra, Priya Kanwar, Rosaline Mishra, Inderpreet Kaur, "Assessment of Radon concentration and Heavy metal contamination in ground water of Udhampur district, Jammu & Kashmir, India"
2018	Radiation Protection Dosimetry, 27 April 2018, 182(4): 427-437, DOI: 10.1093/rpd/ncy084	Sumit Sharma, Ajay Kumar, Rohit Mehra, "Age-dependent inhalation dose due to exposure of short lived progeny of radon and thoron for different age groups in Jammu and Kashmir, Himalayas."
2018	Journal of Radio analytical and Nuclear Chemistry, 317(2): 1165-1174, DOI: <a href="https://doi.org/10.1007/s10967-018-5988-9">https://doi.org/10.1007/s10967-018-5988-9</a>	Manpreet Kaur, Ajay Kumar, Rohit Mehra, Rosaline Mishra. Navjeet Mishra: Assessment of Primordial and Anthropogenic radionuclide contents in soil samples of lower Himalayas of Jammu and Kashmir, India.
2018	Journal of Geological Society of India, 91(96): 700-703, DOI: 10.1007/s12594-018-0926-6	Vikas Duggal, Samriti Sharma, Ajay Kumar Srivastava, Rohit Mehra: Measurement of Radon Concentration in Drinking Water in Bhiwani District of Haryana
2018	Ecotoxicology and Environmental Safety, 162: 521-528, DOI: 10.1016/j.ecoenv.2018.06.097	N. Harikrishnan, R. Ravisankara, A. Chandrasekaran, M. Suresh Gandhi, P. Vijayagopal, Rohit Mehra: Assessment of gamma radiation and associated radiation hazards in coastal sediments of south east coast of Tamilnadu, India with statistical approach

2018	Modern Physics Letters A, 29 June 2018, 33(21):1850118-1850126 , DOI: <a href="https://doi.org/10.1142/S0217732318501183">https://doi.org/10.1142/S0217732318501183</a>	Monica Karday, H.M. Mittal, Rohit Mehra: Systematic study of the nature of gamma bands in A=100-200 mass nuclei
2018	Materials Chemistry and Physics, 216: 372-379, DOI: 10.1016/j.matchemphys.2018.06.026	Sonia Mago, Chetan Sharma, Rohit Mehra, O.P. Pandey, Kanchan L. Singh, Anirudh P. Singh "Preparation of YZT a mixed conductor by microwave processing: A different mechanism in the solid state thermochemical reaction
2018	Environmental Science and Pollution Research, Jan. 2018, 25(12): 11440-11453, DOI: 10.1007/s11356-018-1414-7	Sumit Sharma, Ajay Kumar, Rohit Mehra, Manpreet Kaur, Rosaline Mishra "Assessment of progeny concentration of <sup>222</sup> Rn/ <sup>220</sup> Rn and their related doses using deposition-based direct progeny sensors"
2018	Human and Ecological Risk Assessment: An International Journal, 24(2): 534-550, DOI: 10.1080/10807039.2017.1392234	Manpreet Kaur, Ajay Kumar, Rohit Mehra, Rosaline Mishra "Comparative Study of <sup>222</sup> Rn/ <sup>220</sup> Rn progeny concentration and estimation of age-dependent dose due to inhalation of radon progeny for different body organs"
2018	Indoor and Built Environment, 27(7): 1001-1014, , DOI:10.1177/1420326X17694933	Sudhir Mittal, Asha Rani, Rohit Mehra, B. K. Sahoo, B. K. Sapra, "Radiological variation of indoor radon and thoron levels by pinhole dosimeter in different seasons"
2018	Nuclear Technology and Radiation Protection, 33(1): 106-111, DOI: 10.2298/NTRP1801106K	Kaur M., Kumar A., Mehra R., Mishra R.: Seasonal variation of indoor and outdoor gamma dose rate of Reasi district of Jammu and Kashmir
2018	Arabian Journal of Geosciences, 11(15): , DOI: 10.1007/s12517-018-3746-5	Kaur M., Kumar A., Mehra R., Mishra R.: Human health risk assessment from exposure of heavy metals in soil samples of Jammu district of Jammu and Kashmir, India
2018	Radiation Effects and Defects in Solids, 173: 673-682 DOI:10.1080/10420150.2018.1493482	Mittal S., Rani A., Mehra R., Ramola R.C.: Estimation of natural radionuclides in the soil samples and its radiological impact on human health
2018	Toxicology and Industrial Health, 34(10): 714-725, DOI:10.1177/0748233718773024	Jakhu R., Mehra R.: Risk estimation and multivariate statistical analysis of the heavy metal content of drinking water samples
2018	Pramana- J. Phys. 91(5): , DOI: <a href="https://doi.org/10.1007/s12043-018-1645-7">https://doi.org/10.1007/s12043-018-1645-7</a>	Monica Karday, H M Mittal, Rohit Mehra: Systematic study of rigid triaxiality in Ba–Pt nuclei and role of Z = 64 subshell effect
2018	Human and Ecological Risk Assessment, 24(8): 2275-2287, DOI:10.1080/10807039.2018.1443793	Kaur M., Kumar A., Mehra R., Mishra R.: Study of radon/thoron exhalation rate, soil-gas radon concentration, and assessment of indoor radon/thoron concentration in Siwalik Himalayas of Jammu & Kashmir
2018	Journal of Earth System Science, 127(8), DOI: 10.1007/s12040-018-1009-1	Pragya Pandit, Pargin Bangotra, Rohit Mehra: Structural and luminescent characterisation of uraniferous fluorapatite and haematite associated with phosphatic rocks of the Bijawar group in Sagar District, Madhya Pradesh (India)
2018	Pure and Applied Geophysics, 175(12): 4411-4426, DOI:10.1007/s00024-018-1944-4	Sharma S., Kumar A., Mehra R., Mishra R.: Assessment of Soil Gas Radon and Exhalation Studies in Lower Himalayan Region of Jammu and Kashmir State, India
2018	Journal of Radiation and Nuclear Applications , Sep. 1, 2018; No. 3, 149-156	M. Rohit, KM Anamika and M. Praveen: A comparative study of uranium concentration using two different analytical techniques and assessment of physico-chemical parameters in groundwater

2018	Journal of Geochemical Exploration, 184: 304-310, DOI: 10.1016/j.gexplo.2017.05.002	Pargin Bangotra, Rohit Mehra, Rajan Jakhu, Kirandeep Kaur, Pragya Pandit, Sandeep Kanse, "Estimation of 222 Rn exhalation rate and assessment of radiological risk from activity concentration of 226 Ra, 232 Th and 40 K"
2018	Journal of Geochemical Exploration, 184: 296-303, DOI: 10.1016/j.gexplo.2017.03.002	Rajan Jakhu, Rohit Mehra, Pargin Bangotra, Kirandeep Kaur, H.M. Mittal, "Estimation of terrestrial radionuclide concentration and effect of soil parameters on exhalation and emanation rate of radon."
2017	Radiation Effects and Defects in Solids, 172: 441-455, DOI: 10.1080/10420150.2017.1336762	Amanjeet Panghal, Ajay Kumar, Suneel Kumar, Joga Singh, Sumit Sharma, Parminder Singh, Rohit Mehra, B.S. Bajwa, "Radiation dose-dependent risk on individuals due to ingestion of uranium and radon concentration in drinking water samples of four districts of Haryana, India"
2017	Journal of Earth System Science, March 2017, 12(2) , DOI: 10.1007/s12040-017-0797-z	Pankaj Bala, Vinod Kumar, Rohit Mehra, "Measurement of Radon exhalation rate in various building materials and soil samples"
2017	IEEE transactions on Nuclear Sciences, 64(7): 1927-1933, DOI: 10.1109/TNS.2017.2708602	Harleen Singh, Rohit Mehra, "Discrete Wavelet Transform Method for High Flux n - $\beta$ discrimination with Liquid Scintillators"
2017	International Journal of Pure and Applied Physics, 13(2), 193-200	Manpreet Kaur, Pooja Tripathi, Indu Choudary, Rohit Mehra, Ajay Kumar, "Assessment of Annual Effective Dose Due to Inhalation and Ingestion of Radon in Water Samples from Some Regions of Punjab, India."
2017	International Journal of Environmental Research, 05/2017, 11(2): 141-147, DOI: 10.1007/s41742-017-0015-5	Samriti Sharma, Vikas Duggal, A.K. Srivastava, Rohit Mehra, "Assessment of Radiation Dose from Exposure to Radon in Drinking Water from Western Haryana, India"
2017	Journal of Radiation and Nuclear Applications, 2017, No. 2, 67-73	Rohit Mehra, Deepak Gupta, Rajan Jakhu, "Risk Assessment for Natural Uranium Present in Groundwater of Mahendragarh District of Haryana"
2017	International Journal of Innovative Research in Science and Engineering, 03/03	S. Sharma, V. Duggal, A. K. Srivastava, R. Mehra, A. Rani, "Radon concentration in groundwater and associated effective dose assessment in western Haryana, India"
2017	Radioprotection, 01/2017, 52(2): 109-118, DOI: 10.1051/radiopro/2017009	S. Sharma, A. Kumar, R. Mehra, R. Mishra, "Ingestion doses and hazard quotients due to intake of Uranium in drinking water from Udhampur District of Jammu and Kashmir State, India"
2017	International Journal of Occupational and Environmental Health, 23(3): 202-214, DOI:10.1080/10773525.2018.1450326	Ajay Kumar, Sumit Sharma, Rohit Mehra, Saurabh Narang, Rosaline Mishra, "Assessment of Indoor Radon, Thoron concentrations and their relationship with seasonal variation and geology of Udhampur district, Jammu & Kashmir, India"
2017	Indoor and Built Environment, 26(9):1305-1310, DOI:10.1177/1420326X15613559	Rohit Mehra, Rajan Jakhu, HM Mittal, "Assessment of lung dose from indoor 222Rn and 220Rn exposure in the Jalandhar and Kapurthala districts of Punjab, India"
2017	Indoor and Built Environment, 26(3): 368-374, DOI: 10.1177/1420326X15591639	Ajay Kumar, Saurabh Narang, Rohit Mehra, Surinder Singh: Assessment of radon concentration and heavy metal contamination in groundwater samples from some areas of Fazilka district, Punjab, India
2017	Journal of the Geological Society of India, 90(1): 77-84, DOI: 10.1007/s12594-017-0666-z	Duggal V., Rani A., Mehra R., Balaram V.: Risk assessment of metals from groundwater in northeast Rajasthan
2017	Journal of the Geological Society of India, 90(2): 233-238, DOI: 10.1007/s12594-017-0704-x	Mittal S., Rani A., Mehra R., Balaram V., Satyanarayanan M., Sawant S.S.: Assessment of uranium in correlation with physico-chemical properties of drinking water of Northern Rajasthan

2017	Journal of Radioanalytical and Nuclear Chemistry, 315(1): 75-88, DOI: 10.1007/s10967-017-5632-0	Kaur M., Kumar A., Mehra R., Mishra R.: Dose assessment from exposure to radon, thoron and their progeny concentrations in the dwellings of sub-mountainous region of Jammu & Kashmir, India
2017	Environmental Earth Sciences, 76(16), DOI:10.1007/s12665-017-6874-4	Manpreet Kaur, Ajay Kumar, Rohit Mehra, Rosaline Mishra, "Assessment of attached and unattached progeny concentrations of $^{222}\text{Rn}/^{220}\text{Rn}$ and their contribution to dose using deposition-based progeny sensors"
2017	Health Physics, 113(4): 271-281, DOI: 10.1097/HP.0000000000000644	Ajay Kumar, Manpreet Kaur, Rohit Mehra, Dinesh Kumar Sharma, Rosaline Mishra, "Comparative study of radon concentration with two techniques and elemental analysis with drinking water samples of Jammu district, Jammu and Kashmir, India"
2017	Environmental Earth Sciences, 76(7): DOI: 10.1007/s12665-017-6606-9	N. Krishnamoorthy, S. Mullainathan, Marcos A. E. Chaparro, Mauro A. E. Chaparro, R. Mehra, "Potential effect of natural radionuclides in riverbed sediment: a statistical approach based on granulometric and magnetic mineral difference"
2017	Applied radiation and isotopes, 123: 36-40, DOI: 10.1016/j.apradiso.2017.02.028	Vikas Duggal, Samriti Sharma, Rohit Mehra, "Radon levels in drinking water of Fatehabad district of Haryana, India."
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2016	Current Reports in Science & Technology, 2016, 2(1); 105-111	Manpreet Kaur, Ajay Kumar and Rohit Mehra, "Estimation of indoor and outdoor gamma dose rate exposure levels in Jammu district, Jammu & Kashmir, India"
2016	Asian Review of Mechanical Engineering, 5(1):34-37	Sudhir Mittal, Asha Rani, Rohit Mehra, "Health Hazards Caused by Heavy Metals and their Physico-Chemical Properties in Water Samples from Jodhpur District of Northern Rajasthan, India"
2016	Dose-Response, 14(4), DOI: 10.1177/1559325816680883	Rohit Mehra, Rajan Jakhu, Pargin Bangotra, H M. Mittal, "Estimation of Radiological Dose From Progeny of $^{222}\text{Rn}$ and $^{220}\text{Rn}$ Using DTPS/DRPS and Wire-Mesh-Capped Progeny Sensors"
2016	Environmental Science: Processes and Impacts, 18(12):1540-1549, DOI: 10.1039/C6EM00514D	Rajan Jakhu, Rohit Mehra, H. M. Mittal, "Exposure assessment of natural uranium from drinking water."
2016	Journal of Radioanalytical and Nuclear Chemistry, 310(2):793-804, DOI: 10.1007/s10967-016-4	K. Ajay, K. Manpreet, M. Rohit, S. Sumit, M. Rosaline, Kanwar P. Singh, Bikramjit S. Bajwa, "Quantification and assessment of health risk due to ingestion of uranium in groundwater of Jammu district, Jammu & Kashmir, India"
2016	Applied Radiation and Isotopes, 10.1016/j.apradiso.2	Sudhir Mittal, Asha Rani, Rohit Mehra, "Radon levels in drinking water and soil samples of Jodhpur and Nagaur districts of Rajasthan, India."
2016	Radiation Protection Dosimetry, 04/2016, 171(2):277-281, DOI: 10.1093/rpd/ncw074	Pargin Bangotra, Rohit Mehra, Kirandeep Kaur, Rajan Jakhu, "Study of natural radioactivity ( $^{226}\text{Ra}$ , $^{232}\text{Th}$ and $^{40}\text{K}$ ) in soil samples for the assessment of average effective dose and radiation hazards"
2016	Radiation Protection Dosimetry, 03/2016, 171(2):208-211, DOI: 10.1093/rpd/ncw060	R. Mehra, R. Jakhu, P. Bangotra, K. Kaur, H. M. Mittal, "Assessment of inhalation dose from the indoor $^{222}\text{Rn}$ and $^{220}\text{Rn}$ using RAD7 and pinhole cup dosimeters."
2016	Radiation Protection Dosimetry, 03/2016, 171(2):217-222, DOI: 10.1093/rpd/ncw062	A.Kumar, M. Kaur, S. Sharma, R. Mehra, D. K. Sharma, R. Mishra, "Radiation dose due to radon and heavy metal analysis in drinking water samples of Jammu district, Jammu & Kashmir, India"
2016	Radiation Protection and Environment, 01/2016, 39(1):13	Ajay Kumar, Manpreet Kaur, Sumit Sharma, Rohit Mehra, "A study of radon concentration in drinking water samples of Amritsar city of Punjab (India)."



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2016	Indoor and Built Environment, 25(2):390-396, DOI: 10.1177/1420326X14552694	Rohit Mehra, Kirandeep Kaur, Pargin Bangotra, B. K. Sahoo, "Study of variation of $^{222}\text{Rn}/^{220}\text{Rn}$ and their progeny concentration in dwellings using single entry pin hole-based diffusion chambers"
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2015	International Journal of Low Radiation, 09/2015; 10(1):1-13, DOI: 10.1504/IJLR.2015.07	Sandeep Kansal, Rohit Mehra, "Evaluation and analysis of $^{226}\text{Ra}$ , $^{232}\text{Th}$ and $^{40}\text{K}$ and radon exhalation rate in the soil samples for health risk assessment"
2015	Journal of the Geological Society of India, 09/2015; 86(3):331-336	Vikas Duggal, Rohit Mehra, Asha Rani, "Study of Radium and Radon Exhalation Rate in Soil Samples from Areas of Northern Rajasthan."
2015	Journal of the Geological Society of India, 08/2015; 86(2):173-180, DOI: 10.1007/s12594-015-0	Vikas Duggal, Rohit Mehra, Asha Rani, "An Investigation of Factors Influencing Indoor Radon Concentrations in Dwellings of Northern Rajasthan, India"
2015	Frontiers in Environmental Science, 05/2015; 3(37), DOI: 10.3389/fenvs.2015.00037	Rohit Mehra, Pargin Bangotra, Kirandeep Kaur, " $^{222}\text{Rn}$ and $^{220}\text{Rn}$ levels of Mansa and Muktsar district of Punjab, India."
2015	Indoor and Built Environment 09/2015; 24(6):843-851, DOI:10.1177/1420326X14537006	Pankaj Bala, Rohit Mehra, "Long-term simultaneous measurement of indoor concentration of radon and thoron progeny in the dwellings of Una and Hamirpur District of Himachal Pradesh"
2015	AIP Conference Proceedings, 1675 (030098), DOI: <a href="https://doi.org/10.1063/1.4929314">doi.org/10.1063/1.4929314</a>	Rani A., Mittal S., Mehra R: Variation of annual effective dose due to radon level in indoor air in Marwar region of Rajasthan, India
2015	Journal of Environmental Radioactivity, 06/2015; 148:67-73	Pargin Bangotra, Rohit Mehra, Kirandeep Kaur, Sandeep Kanse, Rosaline Mishra, B.K. Sahoo, "Estimation of EEC, unattached fraction and equilibrium factor for the assessment of radiological dose using pin-hole cup dosimeters and deposition based progeny sensors"
2015	Radiation Protection Dosimetry, 05/2015, 167(1-3):92-96	Rohit Mehra, Pargin Bangotra, Kirandeep Kaur, Sandeep Kanse, Rosaline Mishra, "Estimation of attached and unattached progeny of $^{222}\text{Rn}$ and $^{220}\text{Rn}$ concentration using deposition based progeny sensors."
2015	Environmental Earth Sciences, 04/2015; 74(4):3467-3483	N. Krishnamoorthy, S. Mullainathan, R. Mehra, "Variation of naturally occurring radionuclides, dose rate and mineral characteristics with particle size and altitude in bottom sediments of a river originating from Anamalai hills in the Western Ghats of India"
2015	Applied Radiation and Isotopes, 04/2015; 101:122-126	Asha Rani, Sudhir Mittal, Rohit Mehra, R C Ramola, "Assessment of natural radionuclides in the soil samples from Marwar region of Rajasthan, India"
2015	Studia Geophysica et Geodaetica, 03/2015; 59(3):438-460	Marcos A E Chaparro, Nanjundan Krishnamoorthy, Mauro A E Chaparro, Karina L Lecomte, Sundaram Mullainathan, Rohit Mehra, Ana M Sinito, "Magnetic, chemical and radionuclide studies of river sediments and their variation with different physiographic regions of Bharathapuzha River, southwestern India."
2014	Journal of Earth System Science, 08/2014; 123(6):1241-1247	Vikas Duggal, Asha Rani, Rohit Mehra, "Measurement of soil-gas radon in some areas of northern Rajasthan, India."
2014	Journal of Environmental and Occupational Science, 04/2014; 3(2), 114-118	Vikas Duggal, Asha Rani, Rohit Mehra, "Monitoring of metal contamination in groundwater in Northern Rajasthan, India"

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2014	ISST Journal of Applied Physics, 05(02):80-84	Sandeep Kansal and Rohit Mehra, "Assessment of indoor radon concentration in air using RAD 7 and radon exhalation rate measurement in soil samples"
2014	Journal of Radiation Research and Applied Sciences, 04/2014; 7(2):201-206, DOI:10.1016/j.jrras.2014.02.007	Vikas Duggal, Asha Rani, Rohit Mehra, "A study of seasonal variations of radon levels in different types of dwellings in Sri Ganganagar district, Rajasthan"
2014	International Journal of Engineering Research and Technology, 113-116	Vikas Duggal, A. Rani, R. Mehra, "Measurement of <sup>222</sup> Rn Concentration in Drinking Water in Northern Rajasthan, India"
2014	Indoor and Built Environment, 23(8):1142-1150, DOI:10.1177/1420326X13500801	Vikas Duggal, Asha Rani, Rohit Mehra, "Measurement of indoor radon concentration and assessment of doses in different districts of Northern Rajasthan, India"
2014	Integrated Ferroelectrics, 11/2014; 158(1):123-130, DOI: 10.1080/10584587.2014.957595	Khushboo, Divya Jayoti, Praveen Malik, Ashok Chaudhary, Rohit Mehra, K. K. Raina, "Properties of Ferroelectric Liquid Crystal/Multiwall Carbon Nanotube Doped Composite."
2014	Journal of Geochemical Exploration, 07/2014,142:16-20	Rohit Mehra, Pankaj Bala, "Estimation of annual effective dose due to Radon level in indoor air and soil gas in Hamirpur district of Himachal Pradesh"
2014	Journal of Geochemical Exploration, 07/2014, 142:11-15	Pankaj Bala, Rohit Mehra, R.C. Ramola, "Distribution of natural radioactivity in soil samples and radiological hazards in building material of Una, Himachal Pradesh"
2014	Radiation Protection Dosimetry, 162(3):364-375	N Krishnamoorthy, S Mullainathan, R Mehra, Marcos A E Chaparro, Mauro A E Chaparro, "Evaluation of natural radioactivity and its associated health hazard indices of a South Indian river"
2014	Environmental Earth Sciences, 71(8):3593-3604, 10.1007/s12665-013-2	N. Krishnamoorthy, S. Mullainathan, R. Mehra, Marcos A. E. Chaparro, Mauro A. E. Chaparro, "Radiation impact assessment of naturally occurring radionuclides and magnetic mineral studies of Bharathapuzha river sediments, South India"
2014	Radiation Protection Dosimetry, 158(2):235-240	Vikas Duggal, Asha Rani, Rohit Mehra, R C Ramola, "Assessment of natural radioactivity levels and associated dose rates in soil samples from Northern Rajasthan, India"
2014	Radiation Protection Dosimetry, 158(1):111-114	Rohit Mehra, Pankaj Bala, "Estimation of annual effective dose from indoor radon/thoron concentrations and measurement of radon concentrations in soil"
2014	Environmental Earth Sciences, 71(2):901-909	Rohit Mehra, Pankaj Bala, "Assessment of radiation hazards due to the concentration of natural radionuclides in the environment."
2013	Health Physics, 03/2013;104(3):251-255	Asha Rani, Rohit Mehra, Vikas Duggal, V Balaram, "Analysis of Uranium Concentration in Drinking Water Samples Using ICPMS."
2013	Radiation Protection Dosimetry, 153(4):496-501, 10.1093/rpd/ncs130	Asha Rani, Rohit Mehra, Vikas Duggal, "Radon monitoring in groundwater samples from some areas of northern Rajasthan, India, using a RAD7 detector"
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2013	International Journal of Applied Engineering Research, 8(12):45-49	K. Kaur, R. Mehra, A.K. Tyagi, "Physical and microstructural properties of barium titanate nanomaterials-A review"
2013	Advances in Applied Science Research, 01/2013, 3956-3960	Vikas Duggal, Asha Rani, Rohit Mehra, "Indoor radon level measurements in the dwellings of Northern Rajasthan, India."
2013	Indian Journal of Environmental Health, 2013 Apr, 55(2):175-80.	Rohit Mehra, Komal Badhan, Pankaj Bala, "Assessment of radium and radon exhalation rate in soil and building material samples using LR-115 plastic track detectors"
2013	Radiation Protection and Environment, 01/2013; 36(2):65, DOI:10.4103/0972-0464.128870	Vikas Duggal, Rohit Mehra, Asha Rani, "Analysis of radon concentration in drinking water in Hanumangarh district of Rajasthan, India"
2013	Advances in Applied Science Research, 4(1): 212-215	Rohit Mehra, Pankaj Bala: Effect of ventilation conditions on the annual effective dose due to indoor radon concentration
2013	Radiation Protection Dosimetry, 03/2013; 156(2): 239-245	Vikas Duggal, Rohit Mehra, Asha Rani, "Determination of <sup>222</sup> Rn level in groundwater using a RAD7 detector in the Bathinda district of Punjab, India"
2012	Advances in Condensed Matter Physics, 10/2012; 2012	Praveen Malik, Ashok Chaudhary, Rohit Mehra, K. K. Raina, "Electrooptic and Dielectric Studies in Cadmium Sulphide Nanorods/Ferroelectric Liquid Crystal Mixtures"
2012	Radiation Protection Dosimetry, 08/2012, 152:25-28, 10.1093/rpd/ncs146	R Mehra, K Badhan, "Determination of radon level and radon effective dose rate using SSNTD in dwellings in the Bathinda district of Punjab, India."
2012	Radiation Protection Dosimetry, 08/2012, 152:29-32, 10.1093/rpd/ncs144	K Badhan, R Mehra, "Primordial radioactivity (( <sup>238</sup> )U, ( <sup>232</sup> )Th and ( <sup>40</sup> )K) measurements for soils of Ludhiana district of Punjab, India"
2012	Applied Radiation and Isotopes, 70(7):1110-1112	Sandeep Kansal, Rohit Mehra, N.P. Singh, "Life time fatality risk assessment due to variation of indoor radon concentration in dwellings in western Haryana, India"
2012	Turkish Journal of Physics, 01/2012, 36(2):289-297	R. Mehra, M. Singh, "Estimation of radiological risk due to concentration of <sup>238</sup> U, <sup>226</sup> Ra, <sup>232</sup> Th and <sup>40</sup> K in soils of different geological origins in northern India"
2012	Advances in Applied Science Research, 3(6):3825-3830	Vikas Duggal, Asha Rani, Rohit Mehra, "In situ measurements of radon levels in groundwater in Northern Rajasthan, India"
2012	Der Pharma Chemica, 01/2012; 3(6), 1500-1504	Vikas Duggal, Asha Rani, Rohit Mehra, "Assessment of arsenic content in groundwater samples collected from four districts of Northern Rajasthan, India"
2012	Journal of Molecular Liquids, 165:7–11., DOI:10.1016/j.molliq.2011.09.016	Praveen Malik, Ashok Chaudhary, Rohit Mehra, K.K. Raina, "Electro-optic, thermo-optic and dielectric response of multiwalled carbon nanotube doped ferroelectric liquid crystal thin films"
2012	Indoor and Built Environment, 21(4):601-606., DOI:10.1177/1420326X11419983	Komal Badhan, Rohit Mehra, R.G.Sonkawade, "Studying the Variation of Indoor Radon Levels in Different Dwellings in Hoshiarpur District of Punjab, India"
2012	Phase Transitions, 85(3): 244-254, DOI: 10.1080/01411594.2011.624274	Praveen Malik, Ashok Chaudhary, Rohit Mehra & K.K. Raina: Electro-optic and dielectric studies of silica nanoparticle doped ferroelectric liquid crystal in SmC* phase
2011	Radiation Measurements, 12/2011; 46(12):1803-1806, 10.1016/j.radmeas.2011.06.059	Rohit Mehra, Komal Badhan, Sandeep Kansal, R.G. Sonkawade, "Assessment of seasonal indoor radon concentration in dwellings of Western Haryana"
2011	Molecular Crystals and Liquid Crystals, 06/2011; 541(1):243-251	Ashok Chaudhary, Rohit Mehra Praveen Malik, K. K. Raina, "Dielectric Studies and Memory Effect in Nanoparticle Doped Ferroelectric Liquid Crystal Films."
2011	Geochemical Journal, 01/2011, 45(6):497-503	Rohit Mehra, Surinder Singh, Kulwant Singh, "Assessment of the average effective dose from the analysis of <sup>226</sup> Ra, <sup>232</sup> Th and <sup>40</sup> K in soil samples from Punjab, India"

2011	International Journal of Low Radiation, 12/2011, 8(2):122 - 134	Sandeep Kansal, Rohit Mehra, N.P. Singh, "Measurement of indoor radon concentration in the dwellings of Western Haryana, India, for health risk assessment"
2011	International Journal of Low Radiation, 12/2011, 8(2):156 - 168	Rohit Mehra, Pankaj Bala, Komal Badhan, R.G. Sonkawade, "Assessment of radiation dose due to natural radionuclides in various cement samples"
2011	International Journal of Applied Environmental Sciences, 01/2011, 6(2):165-171	R.K. Kakati, R. Mehra, B. Bhattacharjee, "Seasonal and spatial variation of radon and thoron concentration in the dwellings of Karbi Anglong district of Assam, India using SSNTDs"
2011	Journal of Public Health and Epidemiology, 3(8), 352-357	Sandeep Kansal, Rohit Mehra, N P Singh, "Uranium concentration in ground water samples belonging to some areas of Western Haryana, India using fission track registration technique"
2011	Journal of Environmental Protection Scirp Scientific Research, 2: 960-966, DOI: 10.4236/jep.2011.27110	Rohit Mehra, Manmohan Singh: Measurement of Radioactivity of <sup>238</sup> U, <sup>226</sup> Ra, <sup>232</sup> Th and <sup>40</sup> K in Soil of Different Geological Origins in Northern India
2010	Radiation Protection Dosimetry, 10/2010, 400-403	R Mehra, S Kansal, N P Singh, "Measurement of thoron and radon progeny in outdoors of Sirsa, India, using defined solid angle absolute beta counting"
2010	Indian Journal of Pure and Applied Physics, 07/2010; 48(7):512-515.	Sandeep Kansal, Rohit Mehra, N P Singh, Komal Badhan, R G Sonkawade, "Analysis and assessment of radiological risk in soil samples of Hisar district of Haryana, India"
2010	Indian Journal of Pure and Applied Physics, 05/2010; 48(7), 508-511	Komal Badhan, Rohit Mehra, R.G.Sonkawade, "Measurement of radon concentration in ground water using RAD7 and assessment of average annual dose in the environs of NITJ , Punjab, India"
2010	Environmental Earth Sciences, 59(5):1159-1164	Rohit Mehra, Sandeep Kumar, Rajendra Sonkawade, N. P. Singh, Komal Badhan, "Analysis of terrestrial naturally occurring radionuclides in soil samples from some areas of Sirsa district of Haryana, India using gamma ray spectroscopy"
2010	International Journal of Low Radiation, 08/2010; 7(3):198-207, 10.1504/IJLR.2010.03	Rohit Mehra, "Measurements of <sup>226</sup> Ra, <sup>232</sup> Th and <sup>40</sup> K using gamma spectrometry to assess a first-order exposure risk for residents of Western Haryana, India"
2010	Indian Journal of Pure & Applied Physics Vol./Issue-48/ November pp:805-808.	R Mehra, K Badhan, R.G. Sonkawade, S Kansal, S Singh, "Analysis of terrestrial natural radionuclides in soil samples and assessment of average effective dose"
2009	Asian Journal of Chemistry, 08/2009; 21, 279-283	Vijay Kumar, R G Sonkawade, A S Dhaliwal, Rohit Mehra, "Study of Neutron Induced Modification on Optical Band Gap of CR-39 Polymeric Detector."
2009	Indian Journal of Physics, 08/2009; 83(8), 1191-1196	Rohit Mehra, Surinder Singh, Sandeep Kumar, "Passive integrating radon studies for environmental monitoring in Sirsa district, Haryana, India using solid state nuclear track detectors"
2009	Indian Journal of Physics, 07/2009; 83(7), 1031-1037	Rohit Mehra, Surinder Singh, Kulwant Singh, "Assessment of the average effective dose from the analysis of <sup>226</sup> Ra, <sup>232</sup> Th and <sup>40</sup> K in soil samples from Punjab, India"
2009	Asian Journal of Chemistry, 21, No. 10, S207-211	Komal Badhan, Rohit Mehra, Rajendra G Sonkawade, Surinder Singh, "Use of Gamma-Ray Spectrometry for Assessment of Natural Radioactive Dose in Some Samples of Building Materials."
2009	J Environ Sci Eng. 2009 Apr;51(2):103-106.	Rohit Mehra, Surinder Singh, Sandeep Kumar, "Measurement of indoor radon levels in dwellings of Sirsa district, Haryana and estimation of average annual dose"
2009	Asian Journal of Chemistry, 21(10): S212-S215	R. Mehra, R.G. Sonkawade, K. Badhan, S. Singh, "Measurement of natural radioactivity in brick samples using Gamma-Ray spectrometry"

2009	Indoor and Built Environment 06/2009; 18(3):270-275., DOI:10.1177/1420326X09104140	Rohit Mehra, "Use of Gamma Ray Spectroscopy Measurements for Assessment of the Average Effective Dose from the Analysis of 226Ra, 232Th, and 40K in Soil Samples"
2007	Environmental Monitoring and Assessment, 12/2007, 333-42	Rohit Mehra, Surinder Singh, Kulwant Singh, Rajendra Sonkawade, "Ra-226, Th-232 and K-40 analysis in soil samples from some areas of Malwa region, Punjab, India using gamma ray spectrometry"
2007	Radiation Measurements, 03/2007; 42(3), 441-445	Rohit Mehra, Surinder Singh, Kulwant Singh, "Uranium studies in water samples belonging to Malwa Region of Punjab, using track etching technique."
2006	Radiation Measurements, 41(1):108-111	Kulwant Singh, Surinder Singh, Rohit Mehra, Manmohan Singh, H.S. Sahota, Z. Papp, "Measurement of radon and thoron progeny outdoors in Malout, India, using grab aerosol sampling and beta counting"
2006	Indoor and Built Environment 10/2006; 15(5):499-505., DOI:10.1177/1420326X06069053	Rohit Mehra, Surinder Singh, Kulwant Singh, "A Study of Uranium, Radium, Radon Exhalation Rate and Indoor Radon in the Environs of Some Areas of the Malwa Region, Punjab"
2005	Atmospheric Environment, 12/2005, 36(40):7761-7767	Surinder Singh, Rohit Mehra, Kulwant Singh, "Seasonal variation of indoor radon in dwellings of Malwa region, Punjab."
2005	J Environ Sci Eng. 2005 Oct;47(4):286-9.	Surinder Singh, Rohit Mehra, Kulwant Singh, "Study of seasonal variations for Radon pollution in the environment of Muktsar and Ferozepur districts of Punjab using LR-115 plastic track detectors"
2005	J Environ Sci Eng. 2005 Apr;47(2):85-90	Surinder Singh, Rohit Mehra, Kulwant Singh, "Uranium, radium and radon exhalation studies in geological samples belonging to some areas of Punjab, using track etching technique"

### Conference Publications :

Year	Conference	Publication
2018	5th International Conference on Production and Industrial Engineering (CPIE-2018), Bangkok, Thailand	
2016	18th International Conference on Energy, Environment, Ecosystems and Sustainable Development: ICEEESD 2016, Boston, USA	
2014	International Conference on Energy and Environmental Sciences, London, UK	
2013	International Conference for Academic Disciplines, Toronto, Canada	
2012	International symposium/conference on Natural Radiation Exposures and Low Dose Radiation Epidemiological Studies, Hirosaki University, Japan	
2010	10th Radiation Physics and Protection Conference, Cairo, Egypt	
2010	International workshop on Environmental Thoron and Related Issues, at NIRS, Chiba, Japan	
2009	International Conference on Energy, Environment, Sustainable Development, Paris, France	

### Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year

Reference Book Chapter	Radon in Building Materials: Construction Materials and Engineering: The Fundamentals of Building Materials	Nova Science Publishers, Inc.; New York	Pankaj Bala, Vinod Kumar and Rohit Mehra	ISBN: 978-1-685 07-783-3 e book ISBN: 978-1-685 07-801-0	2022
Reference Book Chapter	RADON DETECTION, EXPOSURE AND CONTROL: Estimation of Radon and Environmental Radioactivity	Nova Science Publishers, Inc.; New York	Pankaj Bala, Vinod Kumar and Rohit Mehra	ISBN: 978-1-53616-792-4	2020
Reference Book Chapter	Radionuclides and Heavy Metals in the Environment: Biokinetic Modelling and Risk Assessment of Uranium in Humans	Springer Nature Switzerland AG 2020	Rohit Mehra, Sarabjot Kaur	978-3-030-14960-4/2524-7409	2020
Reference Book	Measurement of Natural Radioactivity in the Environ and Health Effects	Scholar's Press, Germany	Sandeep Kansal; Rohit Mehra	978-3-639-70844-8	2014
Reference Chapter	Handbook of Radon: Properties, Applications and Health: Assessment of Health Risks and Benefits of Radon	Nova Publishers	Rohit Mehra; Komal Badhan; Pankaj Bala	978-1-62100-369-4	2012
Reference Book	Assessment of Radiological Risk Due To Environmental Radioactivity	LAMBERT Academic Publishing, Germany	Rohit Mehra	978-3-8433-8732-3	2011
Reference Book	Measurement of Natural Radioactivity in Building Materials	LAMBERT Academic Publishing, Germany	Rohit Mehra	978-3-8443-9127-5	2011

## Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Principal Investigator	Research Project	Measurement of Radon, Thoron and progeny distribution in different type of houses in Bathinda, Mansa, Muktsar and Faridkot district of Punjab.	BRNS, BARC, Department of Atomic Energy, Govt. of India	14-06-11	31-03-16	3684952	Completed	N/A

Co Principal Investigator	Research Project	Measurement of Radon, Thoron and their Progeny Distribution in the Different Type of Houses and Natural radioactivity in soil in Hanumangarh , Churu and Sri Ganganagar Districts of Rajsthan	BRNS, BARC, Department of Atomic Energy, Govt. of India	20-07-16	19-07-18	3624750	Ongoing	Sandeep Kansal
Coordinator	Establishment of Virtual Class Room	Establishment of Virtual Class Room for National Knowledge Network under National Mission on Education through Information and Communication Technology	Ministry of ICT, Govt. of India	2010	2011	4000000	Completed	
Coordinator	National Mission on Education	National Mission on Education through Information and Communication Technology	Ministry of ICT, Govt. of India	2011	2014	1000000	Completed	

Principal Investigator	Research Project	Toxicological Risk Assessment of Residents due to spatial distribution of Uranium and Associated Water Quality Parameters in Bathinda District of Punjab	TEQIP-III	10-07-19	24-03-21	4 Lac	Completed	
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### Events Organized :

Category	Type	Title	Venue	From	To	Designation
Conference	National	19th National Conference on “Solid State Nuclear Track Detectors and Their Applications”	NIT Jalandhar	19-11-15	21-11-15	Organising Secretary
Workshop	National	Awareness Programme on NMEICT for faculty of Arts/Science/Commerce /Medical under various universities of Punjab	NIT Jalandhar	19-10-12	19-10-12	Coordinator
Workshop	National	Awareness Programme on NMEICT for faculty of Engineering/Technology/Management under various universities of Punjab	NIT Jalandhar	20-10-12	20-10-12	Coordinator
STC	National	Assessment of Radiological Risk due to Natural Radionuclides	NIT Jalandhar	14-01-13	17-01-13	Coordinator
STC	National	Recent Trends in Advanced Materials and Computing Techniques	NIT Jalandhar	11-03-15	15-03-15	Coordinator
STC	National	Measurement of natural radioactivity in Building Materials	NIT Jalandhar	22-04-13	26-04-13	Coordinator
STC	National	Emerging Trends in Physics and Information Technology	NIT Jalandhar	10-06-13	14-06-13	Coordinator
STC	National	Applications of Nuclear Physics	NIT Jalandhar	18-11-13	29-11-13	Coordinator



STC	National	Nuclear, Statistical Physics and Quark Model and their Applications.	NIT Jalandhar	14-03-14	18-03-14	Coordinator
STC	National	Recent Advances in Nuclear and Particle Physics: Present and Future	NIT Jalandhar	08-02-16	12-02-16	Coordinator
STC	National	Advances in Material Science and Material Engineering	NIT Jalandhar	08-08-16	14-08-16	Coordinator
Conference	National	Recent Advances in Nuclear and Particle Physics: Present and Future	NIT Jalandhar	08-02-16	12-02-16	Coordinator
STC	National	Advances in Material Science and Material Engineering	NIT Jalndhar	08-08-16	14-08-16	Coordinator
STC	National	Recent Advances in Nanostructured Materials	NIT Jalandhar	19-09-16	23-09-16	Coordinator
Workshop	National	Orientation Workshop for Mentor and Mantee institute under TEQIP-III	NIT Jalandhar	03-02-18	04-02-18	Coordinator
STC	National	TEQIP-III - Short Term Course on Material Characterization Techniques	NIT Jalandhar	17-06-19	21-06-19	Coordinator
STC	National	E-STC on Material Characterization Techniques	On-Line Mode (NIT Jalandhar)	24-08-20	28-08-20	Convener
Conference	International	International Conference on Biomacromolecules and Cellular Interface (ICBCI-2021)	NIT Jalandhar	09-01-21	10-01-21	Secretary
STC	National	Advanced Energy Materials	NIT Jalandhar	12-10-20	16-10-20	Convener
Workshop	National	Internship Programme for the promotion of Science and Technology in the adjoining State Institutions Under Community Development Scheme.	NIT Jalandhar	11-11-21	12-11-21	Coordinator

### Professional Affiliations :

Designation	Organization
President	Nuclear Track Society of India
Life Member	Geo-Hazards Research Society, Dresden, Germany

Associate Fellow	International Congress for Chemistry and Environment
Life Member	Indian Society for Radiation Physics, BARC, Mumbai
Honorary Vice President	International Accreditation Organization (IAO), Houston, USA
Member Board of Directors	American Bibliographical Institute, USA
Life Member	Indian Society for Technical Education
Life Member cum Member Executive Council (2020-2023)	Indian Society of Applied Geochemists (ISAG)
Life Member	Indian Society of Information Theory and Applications (ISITA)
Life Member	Indian Association of Physics Teachers
Life Member	Punjab Academy of Sciences
Life Member	Indian Science Congress Association
Life Member	All India Council For Technical Skill Development
Life Member	Indian Physics Association, Homi Bhabha Centre for Science Education, BARC, Trombay, Mumbai
Life Member	Indian Association for Radiation Protection, C/o Radiation Safety Systems Division, BARC, Trombay, Mumbai

### PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Beant Kaur	Assessment of Radiological risk to the general population due to natural radioactivity concentration in soil and food samples	Pursuing	2023	Dr Sunil Devi, TIET, Patiala
Sansar Chand	Dosimetric Aspects of Phosphate Based Materials	Pursuing	2023	
Abhishek	Experimental Nuclear Physics (Title to be finalised)	Pursuing	2023	
Arti	Health risk assessment for remedial measures due to the heavy metals and uranium contamination by leather and hand tool industries of Punjab.	Pursuing	2023	
Amit Kumar Singla	Natural Radioactivity Studies in the Environs of Northern Rajasthan	Awarded	2022	Dr Sandeep Kansal, MRS PTU, Bathinda
Supriya Rani	Radiological Risk Assessment in the Environs of Moga and Barnala Districts of Punjab	Awarded	2022	Dr Sandeep Kansal, MRS PTU, Bathinda
Sarabjot Kaur	Assessment of natural radioactive contamination levels of environs of Solan and Shimla districts, Himachal Pradesh, India	Awarded	2021	
Monica	Empirical and global study of nuclear structure in A=100-200 mass nuclei	Awarded	2021	Dr. H M Mittal, NIT Jalandhar
KM Anamika	Study of natural radionuclides and their impact in the environs of Haridwar and Dehradun districts of Uttarakhand	Awarded	2020	Dr. Praveen Malik, NIT Jalandhar
Harleen Singh	Db3 Wavelet based Pulse Shape Discrimination with Liquid Scintillator for high Flux	Awarded	2020	
Sumit Sharma	A Study of Radon/Thoron and their progeny in Udhampur district of Jammu and Kashmir, Himalayas. India.	Awarded	2019	Dr. Ajay Kumar Sharma, GNDU Amritsar
Manpreet Kaur	A Comprehensive Study on Natural Radiation Levels in the Environs of Jammu and Reasi districts of Jammu & Kashmir, Himalayas	Awarded	2019	Dr. Ajay Kumar Sharma, GNDU Amritsar
Rajan Jakhu	Assessment of radiation dose in the environs of Jaipur and Ajmer Districts of Rajasthan	Awarded	2018	Dr. H M Mittal, NIT Jalandhar

Pargin Bangotra	Estimation of naturally decaying nuclides in the environs of Mansa & Muktsar districts of Punjab	Awarded	2017	
Kirandeep Kaur	Assessment of naturally occurring disintegrating radionuclides in the vicinity of Bathinda and Faridkot districts of Punjab	Awarded	2017	
Sudhir Mittal	Radioactive assessment of the environs of Rajasthan area, India	Awarded	2017	Dr. Asha Sachdeva, IKG PTU Jalandhar
Vikas Duggal	Assessment of radiological risk due to natural radionuclides in the environs of northern Rajasthan	Awarded	2015	Dr. Asha Sachdeva, IKG PTU Jalandhar
Pankaj Bala	Measurement of Natural Radioactivity in the Building Materials and in the Environs of Una and Hamirpur District of Himachal Pradesh	Awarded	2014	
Sandeep Kansal	Natural Radiation Studies in the Environs of Western Haryana	Awarded	2013	Dr. NP Singh, IKG PTU Jalandhar
Ashok Chaudhary	Dielectric and Electro-Optic Studies of Nanomaterials Doped Ferroelectric Liquid Crystal Materials	Awarded	2013	Dr. Parveen Malik, NIT Jalandhar
Komal Badhan	Measurement of Natural Radioactivity for Assessment of Radiological Risk in Doaba Region of Punjab	Awarded	2012	Dr. RG Sonkawade, IUAC New Delhi

### PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Neha Bharti	Assessment of heavy metals in groundwater and their toxicity levels to human population in vicinity of textile industries of Ludhiana, Punjab.	Pursuing	2023	
Rahul Langdi	Health Risk Assessment from exposure to heavy metals and estimation of Physico-chemical parameters in groundwater samples of Leather complex area of Jalandhar, Punjab.	Pursuing	2023	
Adarsh Jain	Applications of LiCaPO <sub>4</sub> phosphor material as Thermoluminescent Dosimeter(TLD)	Awarded	2022	
Laveena Pursharthi	Thermoluminescence Studies of NaCaPO <sub>4</sub> Phosphor Material for Dosimetric Applications	Awarded	2022	
Manisha	Measurement of Heavy Metals and Uranium concentration in water samples of different areas of northern region of Jalandhar City, Punjab.	Awarded	2022	
Abhishek	Study of uranium toxicity in humans from protracted ingestion of groundwater in Lower Himalayas.	Awarded	2021	
Chanchal Charan	Dosimetric assessment of primordial radionuclides in soil and groundwater of Sikar district, Rajasthan	Awarded	2021	
Manik Mehta	Radiometric analysis of soil and groundwater samples in the vicinity of GHAVP Nuclear Power Station site, Fatehbad, Haryana	Awarded	2021	
Anant Singh Chahal	Estimation of Toxicological Risk due to Natural Uranium in Groundwater of Bathinda, Punjab	Awarded	2020	
Nikita	Analysis of Natural Radioactivity in the Soil Samples of Bhiwani, Haryana for Health Risk Assessment	Awarded	2020	

Nitika Dhamija	Health risk estimation due to ingestion of uranium in groundwater	Awarded	2019	
Poorvi Maheshwari	Assessment of natural radionuclides in various food samples	Awarded	2019	
Sakshi	Assessment of natural radionuclides and associated radiological hazards in building materials	Awarded	2019	
Rajat Parkash	Variation of natural radionuclides (Ra, Th and K) in the cement due to variation in the concentration of Fly-Ash.	Awarded	2018	
Mukul Chauhan	Analysis of LADD and Hazard quotient due to Uranium concentration in drinking water.	Awarded	2018	
Nandini Patel	Effect of Physico-chemical properties on Uranium concentration in drinking water samples of Panipat District of Haryana	Awarded	2018	
Edward Rajbongshi	Assessment of Radiation hazards due to the concentration of natural radionuclides in soil samples	Awarded	2017	
Saurabh Dahiya	Study of fast scintillation detector for GAMMA ray spectroscopy using digital techniques	Awarded	2017	
Deepak Gupta	Risk Assessment for natural uranium present in groundwater of Mahendragarh District of Haryana State	Awarded	2017	
Harish Kumar	Estimation of $^{222}\text{Rn}$ and $^{220}\text{Rn}$ progeny concentration and Calculation of annual effective dose by using DRPS/DTPS.	Awarded	2016	
Deepak Kaushik	Study of indoor radon and thoron gas concentration using pinholes based twin cup dosimeter	Awarded	2016	
Harjinder Singh	Measurement of annual effective dose to the residents due to uranium concentration in groundwater samples.	Awarded	2016	
Swati Thakur	Measurement of Annual Effective Dose Due To Radon/Thoron Concentration Using DRPS/DTPS	Awarded	2015	
Palki Duvedi	Measurement of Annual Effective Dose of Radon And Thoron Using Pinhole Cup Hole Dosimeter In The Environs of NITJ, Punjab	Awarded	2015	
Jyoti	Measurement of Radon Concentration in water using Rad7	Awarded	2014	
Minakshi	Measurement of Radon Concentration using Pin Hole Cup Dosimeter in the environs of some districts of Punjab	Awarded	2014	
Ramita Sharma	Measurement of Radon and Thoron Concentration in the environs of Jalandhar District using DTPS and DRPS.	Awarded	2013	
Ginni	Estimation of radiation dose in the environment due to concentration of Radon.	Awarded	2013	
Kanchan	Measurement of Radon and Thoron Concentration with Pin Hole Cup Dosimeter in the environs of Jalandhar District.	Awarded	2013	
Rajan Rana	Measurement of Radon Concentration in Soil Gas by Using Rad7	Awarded	2012	

Deepshikha	Estimation of Life Time Fatality Risk by measuring Radon Concentration using LR-115 Plastic Track Detectors	Awarded	2012	
Jyoti	Estimation of radiation dose due to radon concentration in various water samples.	Awarded	2011	
Babita Sharma	Measurement of Radium Concentration and Radon Exhalation Rate in Soil Samples Collected From Different Regions of Dharamshala, Himachal Pradesh	Awarded	2009	
Monika Rani	Radium Concentration and Radon Exhalation Rate in Building Materials From Different Region in India	Awarded	2009	
Amit Arora (M Tech)	Assessment of Lifetime Fatality Risk Due to Indoor Radon Concentration in the Dwellings of Bathinda District of Punjab.	Awarded	2008	
Sarika Mittal (M Phil)	Indoor Radon Concentration Studies in Sirsa District of Haryana	Awarded	2008	
Latika Jindal	Study of Indoor Radon Concentration in the Campus of NIT, Jalandhar, Punjab	Awarded	2008	
Jasminder Kaur	Analysis of Radium, Thorium and Potassium in Some Building Materials and Calculations of Radiation Dose	Awarded	2008	
Deepika Andotra	Natural Radioactivity Analysis in the Brick Samples From Different Brick Kilns of Jalandhar	Awarded	2008	
Kanwaljeet Kaur Bindra (M Phil)	Radon Concentration and Exhalation Measurement in Soil Samples from Dabwali Area of Haryana Using LR-115 Plastic Track Detectors	Awarded	2007	
Sandeep Kumar (M Phil)	Passive Integrating Radon Studies for Environmental Monitoring in Sirsa District, Haryana, India Using SSNTD	Awarded	2007	
Manoj Kumar (M Phil)	To Study the Level of Radioactive Element Uranium in Soil and Water of District Sangrur in Punjab for Health Risk Assessment	Awarded	2007	
Ramnik Singh (M Phil)	Measurement of Indoor Radon Concentration and Exhalation Measurement in Dwellings From Dabwali Area of Punjab Using LR-115 Plastic Track Detectors	Awarded	2007	
Harpreet Singh (M Phil)	Radon Concentration and Exhalation in Soil From Muktsar Area of Punjab Using LR-115 Plastic Track Detectors	Awarded	2007	
Harpreet Singh (M Phil)	Measurement of radium, Thorium and Potassium Concentration in Soil Samples from Muktsar District of Punjab using Gamma Ray Spectroscopy	Awarded	2007	
Shubhra Gupta (M Phil)	Use of Defined Solid Angle Absolute Beta Counting (DSAABC) Method for Natural Radioactivity Measurement of Radon	Awarded	2007	
Jyoti Rani (M Phil)	Synthesis and Characterization of Carbon Nanotubes	Awarded	2007	
Neetu Sharma (M Phil)	Synthesis and Characterization of Nanowires	Awarded	2007	

**Patents :**

Name	Reg./Ref. No.	Date of Award/Filling	Organization	Status
WATER FILTER APPARATUS FOR EXTRACTING URANIUM FROM WATER	Application No.:202111039827 A	02-09-21/15-10-21	Sharda University	Published: The Patent Office Journal No: 42/2021 Dated 15/10/2021, Page: 47833

**Admin. Responsibilities :**

Position Held	Organization	From	To
Head, Department of Physics	NIT Jalandhar	01-02-2015	25-01-2017
Deputy Registrar (Academics)	NIT Jalandhar	17-11-2008	23-06-2011
Professor Incharge Legal Cell	NIT Jalandhar	25-01-2012	11-03-2014
Officer on Special Duty	NIT Jalandhar	24-06-2011	11-03-2014
Assistant Proctor	NIT Jalandhar	01-02-2011	31-12-2011
Registrar	NIT Jalandhar	18-09-2016	22-02-2018
Professor Incharge Meeting Section	NIT Jalandhar	03-10-2013	11-03-2014
Associate Dean (Student Welfare)	NIT Jalandhar	22-02-2018	27-06-2019
Associate Dean (Faculty Welfare)	NIT Jalandhar	06-02-2020	04-02-2021
Associate Dean (Research & Consultancy)	NIT Jalandhar	27-06-2019	05-02-2020
Member ICC/Women Cell	NIT Jalandhar	09-04-2018	13-02-2020
Professor Incharge (Legal Cell)	NIT Jalandhar	22-02-2018	25-01-2021
Coordinator, Industry- Institute Interaction Cell	NIT Jalandhar	02-03-2021	05-02-2022
Member BOG	Malout Institute of Management and Information Technology (MIMIT), Established and Promoted by Govt. of Punjab	27-12-2021	Till Date
Member Board of Studies	Various Organizations (IKJPTU/MRSPTU/SBSSTU/KMV/AIET/CU/NITs)	19-07-2007	Till Date
Professor Incharge (Legal Cell)	NIT Jalandhar	10-12-2022	Till Date
Associate Dean (Academic-PG)	NIT Jalandhar	16-02-2023	Till Date

**Award and Honours :**

Title	Activity	Given by	Year
Selected as World's Top 2% Scientists	List of World's Top Scientists	Stanford University	2021
Dr. G.R. Udas - Dr. K.K. Dwivedy medal for research	Out standing Research in the last Ten Years	Indian Society of Applied Geochemists (ISAG)	2018
Best Teacher Award	Contribution in the field of Academics at NIT Jalandhar	Dr BR Ambedkar NIT Jalandhar	2018
International Scientist of the Year (Nomination)		Cambridge University, U.K.	2007