

Curriculum Vitae

Full Name	Dr. Rakesh Chand Ramola		
Designation	Senior Professor & Head		
Department	Physics		
Campus	S.R.T. Campus, Tehri		
Address	Department of Physics H.N.B. Garhwal University S.R.T. Campus, Badshahi Thaul Tehri Garhwal - 249199		
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Education Qualification M.Sc., Garhwal University, 1985
Ph.D., Guru Nanak Dev University, Amritsar, 1989

Teaching Experience	33 Years	Research Experience	40 Years
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Research Interest and Fields of Specialization

1. Radiation Protection in the Environment
2. Nuclear Physics/Nuclear Geophysics
3. Material Science/Ion-Beam Interaction

Honours & Awards

1. Recognised as one of the **World's Top 2% scientists in the years 2021, 2022, 2024 & 2025** by Stanford University, USA
2. **Bharat Gaurav (Pride of India) Award – 2016** for meritorious service, outstanding and remarkable role in Science and Higher education by the India International Friendship Society.
3. **Dr. A.K. Ganguly National Award – 1995** for original and outstanding research work in the field of Environmental Radioactivity by the Indian Association for Radiation Protection.
4. **Best Research Paper Award – 2004**, Wadia Institute of Himalayan Geology, Dehradun, India. The award was presented by the then Chief Minister of Uttarakhand.
5. **Junior Associate** of the International Centre for Theoretical Physics, Trieste, Italy, from January 1990 to December 1993.
6. **Post Doc Fellow** at University of Salzburg, Austria, under the Austrian Academic Exchange Programme from December 1990 to February 1992.
7. **JSPS Invitation Fellow** at National Institute of Radiological Sciences, Chiba, Japan, under the Japan Society for Promotion of Sciences (JSPS) invitation fellowship programme from June 1999 to March 2000.
8. **Visiting Scientist** at Vinca Institute of Nuclear Sciences, Belgrade, Serbia, June 4-26, 2005.

Member of Academic Institutions

1. Member, Governing Council, **Inter University Accelerator Centre, New Delhi**
2. Convener, Board of Study, Department of Physics, **H.N.B. Garhwal University**
3. Member, Academic Council, **H.N.B. Garhwal University**
4. Member, Academic Council, **PLMS Autonomous Govt PG College, Rishikesh**
5. Member, Board of Study, Applied Sciences (Physics), **Swami Ram Himalayan University, Dehradun**

PARTICIPATION IN IMPORTANT ACADEMIC/ADMINISTRATIVE ACTIVITIES

1. Participated in **Training Programme on Academic Leadership**, MGA Hindi Vishwavidyalaya, Wardha, from 01 May to 04 May 2018.
2. Participated in Assessors Orientation Programme of the **National Assessment and Accreditation Council (NAAC)**, IIIT Allahabad, April 30, 2019.
3. Participated in **MHRD-sponsored Leadership for Academicians Programme (LEAP)**, IIT Kharagpur, 13 May to 24 May 2019.
4. Participated in MHRD-sponsored LEAP on the topic **Leadership in a Complex and Changing World**, Cambridge University, 03 June to 07 June 2019.

Membership of the Scientific Organization

1. **President**, National Radon Network Society (2015–Continue).
2. Life Member, International Geo-Hazard Research Society. Head Office, Dresden, Germany. **President** (2010 – 2014).
3. Life member, Nuclear Track Society of India (2005 – 2009). Head Office, BARC, Mumbai. **Secretary** (2005 – 2009) & **Joint Secretary** (2003-2005).
4. Life Member of the Indian Association for Radiation Protection, BARC, **Mumbai**
5. Life Member of the Indian Science Congress Association, **Kolkata**
6. Life Member of the Indian Aerosol Science and Technology Association, **Mumbai**
7. Member, Editorial Board, Journal of Radiation Research & Applied Sciences
8. Guest Editor, Radiation Protection Dosimetry, Acta Geophysics & Indian J Physics
9. Editor-in-Chief, NTSI Newsletter (2003-2009)
10. Reviewer of various national and international research journals.

Research Supervision: Number of Ph.D. Degree Awarded under my supervision: **20**

Completed Research Projects

1. Principal Investigator of research project entitled "Environmental Radon Studies in Garhwal Himalayas", Department of Atomic Energy, Govt of India, 1993-1996.
2. Co-Principal Investigator of research project entitled "Radon Generation and Transport Modelling in Soil", UGC, New Delhi, India, 1994-1997.
3. Principal Investigator of Research Project entitled "Studies of Radon/Thoron Levels in Garhwal and Kumaun Area", Department of Atomic Energy, Govt of India, 1996-2000.
4. Principal Investigator of Research Project entitled "An Investigation of Geological Controls on Radon and Helium in Soil/Water and its Relation to Radon Availability in Human Environment", DST, New Delhi, 2002 - 2006.
5. Principal Investigator of Research Project entitled "Study of the Risk Assessment of Radon in Drinking Water of Himalayan Region", University Grants Commission, New Delhi, 2003 - 2006.
6. Principal Investigator of Research Project entitled "Characterization of Conducting Polymers and Their Structural, Electrical, Optical Properties by using Swift Heavy Ions", Nuclear Science Centre, New Delhi, 2004 – 2006.
7. Principal Investigator of Research Project entitled "Synthesis and Characterization of Polyaniline and Polypyrrole by using Swift Heavy Ions", Inter University Accelerator Centre, New Delhi, 2005 to 2008.

8. Principal Investigator of Research Project "Studies of Natural Radionuclides in Himalayan Environment", BRNS, DAE, Govt of India, 2005 to 2009.
9. Indian Collaborator of an International Research Project "Establishment of Network for Natural Radiation Exposure Studies in Asia", Japan Science & Technology Agency, May 2009 to March 2012.
10. Principal Investigator of Research Project "Retrospective Assessment of Indoor Radon Exposure in Garhwal Homes by Measurements of ^{210}Po Implanted on Glass Surface", Atomic Energy Regulation Board, 2009 to 2013.
11. Principal Investigator of Research Project "A Comparative Study Among Different Techniques for Radon/Thoron Progeny Measurements in the Normal and High Background Radiation Areas", BRNS, DAE, Govt of India, 2011 to 2016.
12. Principal Investigator, Research Project "Strengthening the Infrastructural Facility at Nodal Centre at H.N.B. Garhwal University to pursue Radon/Thoron Studies in Northern India", Department of Atomic Energy, Govt of India, 2014 to 2018.

Memorandum of Understanding

Completed:

1. Indian Collaborator of an International Research Project "Establishment of Network for Natural Radiation Exposure Studies in Asia", **Japan Science & Technology Agency**, May 2009 to March 2012.
2. Coordinator, Nodal Calibration Centre at HNB Garhwal University, established under the MoU, signed with **Bhabha Atomic Research Centre, Mumbai** to strengthen radon studies in states of Delhi, Uttar Pradesh, Uttarakhand, Himachal Pradesh and Jammu & Kashmir, April 2011 – March 2016.
3. Coordinator, MoU, signed with **Bhabha Atomic Research Centre, Mumbai** for setting up DAE Technologies Display and Dissemination facility at SRT Campus, Badshahi Thaul, 2017 – 2022.

On Going:

1. Coordinator, MoU, signed with **Tokyo Metropolitan University** on "International network for Asian and African researchers in environmental radiation for health management to radiation exposure" April 2021-Continue.

Membership of the Editorial Board of Scientific Journals

1. **Member, Editorial Board**, Scientific Reports – Nature, Nature Publishing Group
2. **Associate Editor**, Frontiers in Public Health: Radiation and Health.
3. **Associate Editor**, Journal of Radioanalytical & Nuclear Chemistry (Springer-Nature)
4. **Executive Guest Editor**, Applied Radiation & Isotopes, Elsevier Science Publication
5. **Member, Advisory Board**, Journal of Radiation Research and Applied Sciences, Taylor & Francis Group. Member, Editorial Board till 2018.
6. **Member, Editorial Board**, Radiation Science & Technology, Science Publication Group
7. **Guest Editor**, Radiation Protection Dosimetry, Oxford University Press
8. **Guest Editor**, Acta Geophysics (Springer-Nature)
9. **Guest Editor**, Indian Journal of Physics and Acta Geophysica (Springer).
10. Reviewer of various national and international research journals.

Administrative Experience

1. **Director**, H.N.B. Garhwal University, S.R.T. Campus, Badshahi Thaul, Tehri Garhwal from 13 July 2013 to 31 July 2019.
2. **Head, Department of Physics**, H.N.B. Garhwal University, January 15, 2024 to Continue.
3. **Coordinator, Foreign Students Office**, H.N.B. Garhwal University, June 2021-Continue.
4. **Coordinator**, Seventh (**Offline**) and Eighth (**Online**) Convocations of HNB Garhwal University, **Srinagar (Garhwal)**, held on Dec 1, 2019, and Dec 1, 2020, respectively.
5. **Member, Research Programme and Policy Development Committee**, HNB Garhwal University from May 2022 to continue.
6. **Convener, Screening Committee for recruitment and promotion of faculty members**, HNB Garhwal University (2019-2022).
7. **Coordinator, E-Teaching Learning Committee**, HNB Garhwal University (2020-2021).
8. **Head, Department of Physics**, H.N.B. Garhwal University, S.R.T. Campus, Badshahi Thaul, Tehri Garhwal from January 2017 to January 2018.
9. **Deputy Dean Students Welfare**, H.N.B. Garhwal University Campus, Badshahi Thaul, Tehri Garhwal from August 2011 to July 2013.
10. **Chairman, Sports Council**, H.N.B. Garhwal University Campus, Badshahi Thaul, Tehri Garhwal, from September 2009 to July 2013 and Member, Sports Council, 1996-1999 and 2000-2005.
11. **Asst Dean Students Welfare**, H.N.B. Garhwal University Campus, Badshahi Thaul, Tehri Garhwal from August 2000 to April 2004 & Oct 2010 to August 2011
12. **Assistant Proctor**, H.N.B. Garhwal University Campus, Badshahi Thaul, Tehri Garhwal, from July 2008 to June 2009 & August 2010 to November 2010.
13. **Coordinator, CISCO Networking Local Academy**, H.N.B. Garhwal University Campus, Badshahi Thaul, Tehri Garhwal, 2004 to 2009.
14. **Advisor, Guidance and Counselling Cell**, H.N.B. Garhwal University Campus, Badshahi Thaul, Tehri Garhwal, August 2004 to June 2006.
15. **Head, Department of Computer Science**, H.N.B. Garhwal University, Tehri from September 1997 to June 1999.
16. **Programme Officer**, National Service Scheme, H.N.B. Garhwal University Campus, Tehri Garhwal, 1995 to 1999.
17. **Chief Election Officer** of Student Union, H.N.B. Garhwal University Campus, Tehri Garhwal, 2001.

Scientific Visits Abroad

1. **Italy**: To attend extended workshops at ICTP, Italy (**1988; 1990; 1991; 2000**) & participation in an international symposium at Pisa (**2010**)
2. **Slovenia/Yugoslavia**: Visit to the Research Reactor of Jozef Stefan Institute, Ljubljana (**1988**)
3. **Austria**: Post Doc Fellow at University of Salzburg (**1990 – 1992**)
4. **Japan**: Participation in international conferences at Fukuoka and Chiba (**1997**), worked as JSPS Invitation Fellow at National Institute of Radiological Sciences, Chiba (**1999-2000**), participation in international conference at Osaka and Chiba (**2004**), collaborative project meeting at Chiba (**2009**), international conferences at Chiba and Tokyo (**2010**), international conference at Hirosaki (**2014**), international conference at Hiroshima (**2019**), Annual Meeting of Japan Radiation Research Society, Tokyo (**2023**), collaborative project meeting at Tokyo (**2025**).
5. **Serbia and Montenegro**: Participation in an international workshop and worked as a Visiting Scientist at Vinca Institute of Nuclear Sciences, Belgrade (**2005**).

6. **Germany:** Participated in international conferences at Dresden (**2005; 2008; 2019**)
7. **Taiwan:** Participation in international conference in Taiwan (**2007; 2016**)
8. **Poland:** Participation in an international conference at Zakopane and a visit to the Institute of Nuclear Physics, Krakow (**2009**).
9. **Turkey:** Participation in an international conference in Istanbul (**2009**)
10. **United States of America:** Participation in ICRP meeting at Bethesda, Washington (**2011**) and the international conference at **NASA**, San Jose, California (**2014**)
11. **Australia:** Participation in an international conference in Brisbane (**2013**)
12. **Singapore:** Participation in an international conference in Singapore (**2017**)
13. **United Kingdom:** Participated in MHRD-sponsored Leadership for Academicians Programme (LEAP), Cambridge University (**2019**).

Conference/Symposium/Workshop Attended during the last five years (2021-2025)

International

1. Chaired a technical session in the Fifth International Conference on Materials Engineering and Nano Sciences, **Osaka, Japan**, March 23-25, 2021
2. Chaired a technical session in the International Conference on Recent Advances in Material Sciences, **Srinagar (Garhwal)**, May 15-17, 2021.
3. Delivered an invited talk in the Training on Earthquake Early Warning System Through Real Time Radon Gas Monitoring, **Hungary**, November 11, 2021.
4. Delivered an invited talk in the Eighth Terrestrial Radioisotopes in Environment International Conference on Environmental Protection, University of Pannonia, **Hungary**, Oct 4-7, 2022.
5. Delivered an invited talk in the 2nd International Conference on Aerosols, Air Quality, and Climate Change over Himalayan Region of Uttarakhand. **Srinagar (Garhwal)**, November 4-6, 2022.
6. Delivered presidential address and chaired a technical session in the First International Conference on Radiation Awareness and Detection in Natural Environment, **Dehradun**, March 2-4, 2023.
7. Delivered an invited talk and chaired a technical session in the International Workshop and Winter School on Hands-on-Training on Instrumentation and Analytical Techniques for Atmospheric Aerosol Measurements, Source Apportionment and Prediction over Bharat, **Srinagar (Garhwal)**, March 18-22, 2024.
8. Delivered an invited talk in the 66th Annual Meeting of the Japan Radiation Research Society, Tokyo, **Japan**, November 6-8, 2023.
9. Participated in 56th meeting for the Japan Health Physics Society, Tokyo, **Japan**, Nov 9-10, 2023.
10. Delivered an invited talk and chaired a technical session in the International Conference on Nuclear Physics and Applications, **Delhi**, October 21-25, 2024.

National

11. Delivered an invited talk and chaired a technical session in the Twenty-First National Conference on Solid State Nuclear Track Detectors and Their Applications, **Delhi**, January 29-31, 2021.
12. Chaired a technical session in the Third National Conference on Radiation Awareness and Detection in Natural Environment, **Tehri**, March 18-20, 2021.

13. Chaired a technical session in the National Conference on Advances in Theoretical Physics, Material and Atmospheric Physics, **Dehradun**, June 16-17, 2021.
14. Delivered an invited talk in the Faculty Development Program on Recent Developments in Physics Sciences, **Amritsar**, July 19, 2021.
15. Delivered an invited talk in the Faculty Development Programme on 'NAAC Accreditation Framework: An Overview in respect of New Guidelines. **Organized by the Research Foundation of India**, August 19, 2021.
16. Delivered an address as the Guest of Honour in the Int. Conference on Computational and Mathematical Methods in Applied Science, **Dehradun**, March 30, 2023.
17. Delivered an invited talk in the Faculty Development Programme on Principles of Radiation Detection, Measurement and Experimental Techniques. **Ramjas College, Delhi**, April 7, 2023.
18. Delivered an invited talk in the Workshop on Effects of Radiation and its Measurement, **Visakhapatnam**, January 9, 2024.
19. Delivered an invited talk in the Workshop on Effects of Radiation and its Measurement, **Visakhapatnam**, January 9, 2024.
20. Delivered an invited talk and chaired a technical session in the Fifth National Conf on Radiation Awareness & Detection in Natural Environment, **Dehradun**, October 7-9, 2024.
21. Delivered invited talks in the Workshop on Research Methodology Course, **Tehri Garhwal**, July 21-30, 2025.
22. Delivered an invited talk in the National Conference on Multifunctional Materials for Sustainable Development, **Lucknow**, September 20-21, 2025.

Conference/Symposium/Workshop Organized during the last five years (2021-2025)

1. Chairman, Third National Conference on Radiation Awareness and Detection in Natural Environment, **Tehri**, March 18-20, 2021.
2. Chairman, First International Conference on Radiation Awareness and Detection in Natural Environment, **Dehradun**, March 2-4, 2023.
3. Member, National Organizing Committee, International Conference on Nuclear Physics and Applications, **New Delhi**, October 21-25, 2024.
4. Chairman, Fifth National Conference on Radiation Awareness and Detection in Natural Environment, **Dehradun**, October 7-9, 2024.

Publications during the last five years (2021-2025)

Journals

1. Annealing Effects on Gas Sensing Response of Ga-Doped ZnO Thin Films. **R.C.Ramola**, Sandhya Negi, Mukesh Rawat, R.C.Singh, Fouran Singh. *ACS Omega* **6** (2021) 11660-11668
2. Challenges and opportunities for higher education amid COVID-19 pandemic. **R.C.Ramola**. *Int. Journal of Computer Engineering in Research Trends* **8** (2021) 29-32
3. Quantification of radiological dose and chemical toxicity due to radon and uranium in drinking water in Bageshwar region of Indian Himalaya. Ankur Kumar, Tushar Arora, Prakhar Singh, Kuldeep Singh, Devendra Singh, P.P.Pathak, **R.C.Ramola**. *Groundwater for Sustainable Development* **12** (2021) 100491
4. Study of primordial radionuclides and radon/thoron exhalation rates in Bageshwar region of Kumaun Himalaya, India. Ankur Kumar, Prakhar Singh, Poonam Semwal, Kuldeep Singh, Mukesh Prasad, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **328** (2021) 1361-1367

5. First Surface Measurement of Variation of Cloud Condensation Nuclei (CCN) Concentration over the Pristine Himalayan Region of Garhwal, Uttarakhand, India. Alok Sagar Gautam, S.N.Tripathi, Abhishek Joshi, A.K.Mandariya, Karan Singh, Gaurav Mishra, Sanjeev Kumar, **R.C.Ramola**. *Atmospheric Environment* **246** (2021) 118123
6. Study of soil-gas and indoor radon concentration in a test village at Tehri Garhwal. Pooja Panwar, Mukesh Prasad, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **330** (2021) 1383-1391.
7. Study of radiation exposure due to indoor radon, thoron and progeny in Ghuttu, Tehri Garhwal, India. R.S.Sajwan, Veena Joshi, Naresh Kumar, Sanjay Dutrt, Kavita Rawat, Mukesh Prasad, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **330** (2021) 1497-1507.
8. Study of indoor radon, thoron and their decay products level in residences of Udhampur Singh Nagar district of Uttarakhand, India. Sanjay Dutt, Veena Joshi, Rohit Singh Sajwan, Manjulata Yadav, Rosaline Mishra, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **330** (2021) 1509-1515.
9. Evaluation of background radiation level and excess lifetime cancer risk in Doon valley, Garhwal Himalaya. Tushar Kandari, Prakhar Singh, Poonam Semwal, Ankur Kumar, A.A.Bourai, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **330** (2021) 1545-1557.
10. Evaluation of natural radioactivity levels and ^{222}Rn , ^{220}Rn exhalation rate in the soil of the Himalayan belt of Uttarakhand, India. Poonam Semwal, Ankur Kumar, Kuldeep Singh, Manish Joshi, T.K.Agarwal, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **330** (2021) 1589-1599.
11. Uranium contamination in drinking water as a health concern in Uttarakhand, India. Mukesh Prasad, Poonam Semwal, Pooja Panwar, G.S.Gusain, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **331** (2022) 1933-1940.
12. Variation of natural radioactivity in soil and water samples of Garhwal Himalaya, India. Manjulata Yadav, Mukesh Prasad, Sanjay Dutt, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **331** (2022) 1951-1958.
13. Radiological dose estimation due to exposure to attached and unattached fractions of radon and thoron progeny concentrations. Pooja Panwar, Abhishek Joshi, Mukesh Prasad, **R.C.Ramola**. *J. Radioanalytical and Nuclear Chemistry* **331** (2022) 1967-1974
14. Monitoring of terrestrial gamma radiation exposure in different geological Stress conditions of Uttarakhand Himalayan region, India. G.Prasad, S.Kimothi, S.Chandra, A.Thapliyal, **R.C.Ramola**. *Journal of Physics: Conference Series* **2267** (2022) 012102.
15. A systematic study on occurrence, risk estimation and health implications of heavy metals in potable water from different sources of Garhwal Himalaya, India. Mukesh Prasad, R.S.Aswal, Abhishek Joshi, G.Anil Kumar, **R.C.Ramola**. *Scientific Reports-Nature* **12** (2022) 20419.
16. Thoron equilibrium factor observed around a Chhatrapur placer deposit, a high background radiation area in Odisha, India. Yasutaka Omori, Ganesh Prasad, Devulapalli Vidya Sagar, Sarata Kumar Sahoo, Atsuyuki Sorimachi, Miroslaw Janik, Tetsuo Ishikawa, **Rakesh Chand Ramola**, Shinji Tokonami. *Radiation Environment and Medicine* **11** (2022) 50-55.
17. Gas sensing response of ion beam irradiated Ga-doped ZnO thin films. **R.C.Ramola**, Sandhya Negi, R.C.Singh, Fouran Singh. *Scientific Reports-Nature* **12** (2022) 22351.
18. Effective dose estimation of radon, thoron and their progeny concentrations in the environs of Himalayan belt, India. Poonam Semwal, T.K.Agarwal, M. Joshi, A.Kumar, Kuldeep Singh, **R.C.Ramola**. *Int. J. Environ. Sci. Technol.* **20** (2023) 4127-4138.

19. $^{234}\text{U}/^{238}\text{U}$ disequilibrium and $^{235}\text{U}/^{238}\text{U}$ ratios measured using MC-ICP-MS in natural high background radiation area soils to understand the fate of uranium. Nimelan Veerasamy, Sharayu Kasar, Rajamanickam Murugan, Kazumasa Inoue, Thennaarassan Natarajan, **R.C.Ramola**, Masahiro Fukushi, S.K.Sahoo. *Chemosphere* **323** (2023) 138217.

20. Study of radionuclides in rocks samples from Ukhimath area and Its correlation with soil and water data. Manjulata Yadav, Manoj Kumar Jindal, **R.C.Ramola**. *Chemistry Africa* **6** (2023) 2165-2173.

21. Characteristics of ^{222}Rn and ^{220}Rn equilibrium factors in the indoor environments. Mukesh Prasad, Peter Bossew, Trilochana Shetty, **R.C.Ramola**. *Journal of Environmental Radioactivity* **268-269** (2023) 107262.

22. Occurrences, sources and health hazard estimation of potentially toxic elements in the groundwater of Garhwal Himalaya, India. R.S.Aswal, Mukesh Prasad, N.K.Patel, A.L.Srivastav, Johnbosco C. Egbueri, G. Anil Kumar, **R.C.Ramola**. *Scientific Reports* **13** (2023) 13069.

23. Ion beam induced modifications in the optical and structural characteristics of Lexan polycarbonate. **R.C.Ramola** & Anju Semwal. *Materials Performance and Characterization* **12** (2023) 198-210.

24. Geological control of terrestrial background radiation in Garhwal Himalaya, India. Manjulata Yadav, Manoj Kumar Jindal, Peter Bossew, **R.C.Ramola**. *Environmental Geochemistry & Health* **45** (2023) 8379-8401.

25. Measurement of radon concentration in soil gas and radon exhalation rate from soil samples along and across the Main Central Thrust of Garhwal Himalaya, India. Krishna Pal Singh, Subhash Chandra, Pooja Panwar, Abhishek Joshi, Ganesh Prasad, G.S.Gusain, **R.C.Ramola**. *Environmental Geochemistry & Health* **45** (2023) 8771-8766.

26. Estimation of radiation dose due to thoron and progeny Inhalation in high background Natural radiation area of Odisha, India. **R.C.Ramola**, Mukesh Prasad, S.K.Sahoo, Shinji Tokonami. *Radiation Protection Dosimetry* **199** (2023) 2179-2182.

27. Distribution of naturally occurring radionuclides and gamma dose rate assessment in the soils of high background natural radiation area Odisha, India. Nimelan Veerasamy, Sarata Kumar Sahoo, Thennaarassan Natarajan, Kazumasa Inoue, Masahiro Fukushi, **Rakesh Chand Ramola**. *Radiation Protection Dosimetry* **199** (2023) 2194-2198.

28. Levels and effects of uranium in groundwater sources of Shivalik Hills, Outer Himalaya, India. Mukesh Prasad, R.S.Aswal, Utpal Shrivastava, Abhishek Joshi, Pooja Panwar, Pargin Bangotra, **R.C.Ramola**. *J Radioanalytical and Nuclear Chemistry* **333** (2024) 2495-2504.

29. Assessment of radon accumulation in indoor air using soil-gas radon, radium content and radon exhalation measurements in Tehri Garhwal, India. Pooja Panwar, Mukesh Prasad, Abhishek Joshi, Krishna Pal Singh, Rohit Mehra, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 2505-2514.

30. Distribution of ^{226}Ra , ^{232}Th and ^{40}K in Kanyakumari beach placer deposits along Tamil Nadu coast, India. T.Natarajan, S.K.Sahoo, T.Nakajima, N.Veerasamy, S.Yamazaki, K.Inoue, **R.C.Ramola**. *J. Radioanalytical & Nuclear Chemistry* **333** (2024) 2587-2595.

31. Distribution of radionuclides and associated radiological risk assessment of soils from Niška Banja, Serbia. S.K.Sahoo, Z.S.Zunic, N.Veerasamy, T.Natarajan, M.Zhukovsky, P.Jovanovic, N.Veselinovic, A.Janicijevic, A.Onischenko, I.Yarmoshenko, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 2605-2613

32. Distribution and risk estimation of potentially toxic elements in potable groundwater of Kumaun Himalaya, India. R.S.Negi, R.S.Aswal J.S.Negi, Mukesh Prasad, Abhishek Joshi, **R.C.Ramola**. *Groundwater for Sustainable Development* **25** (2024) 101105.

33. Structural and optical characteristics of Cr-doped TiO₂ thin films synthesized by sol-gel method. Abhishek Prasad, Fouran Singh, Vivek Dhuliya, L.P.Purohit, **R.C.Ramola**. *Optical Materials* **151** (2024) 115411.

34. Estimation of radiation dose due to ingestion of radon in water samples of Garhwal Himalaya, India. Krishna Pal Singh, Subhash Chandra, Mukesh Prasad, Abhishek Joshi, Ganesh Prasad, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 2867-2879.

35. Seasonal variability of ²²²Rn and ²²⁰Rn equilibrium factors in indoor environment of Kumaun Himalaya, India. Taufiq Ahamad, O.P.Nautiyal, Manish Joshi, Prakhar Singh, A.S.Rana, A.A.Bourai, R.S.Sajwan, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 2881-2890.

36. Distribution of uranium and selected toxic heavy metals in drinking water of Garhwal Himalaya, India. Pooja Panwar, Abhishek Joshi, Krishna Pal Singh, Mukesh Prasad, Rohit Mehra, S.K.Sahoo, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 2927-2935.

37. Doses from inhalation of Radon and Thoron for residents in tectonically active region in Central Indian Himalaya. G.Prasad, S.Kimothi, S.Chandra, Y.Omori, S.K.Sahoo, T.Ishikawa, S.Tokonami, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 2999-3005.

38. Distribution, health effects and source apportionment of uranium and other potentially toxic elements in Ganga water. R.S.Aswal, Mukesh Prasad, O.P. Pandey, Ishwar Dutt, Ajay Sharma, Ashok Kumar, A. Raturi, S.K.Sahoo, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 3027-3045.

39. Variation of indoor radon concentration in a walk-in type test chamber under controlled environmental conditions. Abhishek Joshi, Pooja Panwar, Mukesh Prasad, Krishna Pal Singh, **R.C. Ramola**. *J Radioanalytical and Nuclear Chemistry* **333** (2024) 3055-3064.

40. Risk assessment due to ingestion of uranium and radon in the drinking water samples of the Budhakedar region in Garhwal Himalaya, India. Manjulata Yadav, Krishna Pal Singh, Sanjay Dutt, Vimal Mehta, Jaswinder Kaur, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 3065-3074.

41. Measurement of radon mass exhalation and gamma dose rates in the Chakrata region of Garhwal Himalaya, India. Subham Sharma, Taufiq Ahamad, Vikrant Thakur, Krishna Pal Singh, Abhishek Joshi, A.A.Bourai, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 3087-3094.

42. Car-borne survey to construct the distribution of absorbed dose rate in air in the Tehri Garhwal region, India. Kazumasa Inoue, Thennaarassan Natarajan, S.K.Sahoo, Masahiro Fukushi, Taketo Yoshimura, Abhishek Joshi, Vikrant Thakur, **R.C.Ramola**. *Journal of Radioanalytical and Nuclear Chemistry* **333** (2024) 3107-3114.

43. Estimation of background radiation dose in the indoor air in geo-sensitive zones of the Garhwal Himalaya, India. Ganesh Prasad, K.P.Singh, Sanjeev Kimothi, Subhash Chandra, **R.C.Ramola**. *J. Radioanalytical & Nuclear Chemistry* **333** (2024) 3219-3227.

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Chapter in Books (2021 Onwards)

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Report (2021 Onwards)

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Edited Books

1. Editor of the Proceedings of Twelfth National Symposium on Environment, Tehri Garhwal, India, June 5-7, 2003, **572 pages**
2. Guest Editor of Indian Journal of Physics (Springer), **Volume 83 (Nos. 6, 7 & 8), 2009**, published as the Proc. 15th National Symposium on Solid State Nuclear Track Detectors and Their Applications, Tehri Garhwal, India, June 21-23, 2007.
3. Guest Editor of topical issue “Geo-Hazards” of Acta Geophysica (Springer), **Volume 61, Issue 4 (2013)**, published as the Proceedings of Third International Geo-Hazards Research Symposium, Tehri Garhwal, India, June 10-14, 2012.
4. Geo Hazards: Recent Research (2015). ISBN: **978-81-8487-396-2**. Narosa Publishing House, New Delhi, India. **216 pages**

5. Guest Editor of Radiation Protection Dosimetry (*Oxford University Press*), **Volume 171, No. 2, 2016**, published as the Proceedings of First National Conference of Radiation Awareness and Detection in Natural Environment, Tehri Garhwal, June 15-17, 2015.
6. Guest Editor of topical issue “Recent Advances in Geo-Hazards” of *Acta Geophysica (Springer)*, **Volume 66, Issue 5 (2018)**, published as the Proceedings of Third International Geo-Hazards Research Symposium, Taiwan, October 17-20, 2016.
7. Associate Editor of special issue *Journal of Nuclear and Radioanalytical Chemistry (Springer)*, **Volume 330, Issue 3 (2021)**, published as the Proceedings of Third National Conference of Radiation Awareness and Detection in Natural Environment, Tehri Garhwal, India, March 18-20, 2021.
8. Executive Guest Editor of special issue on Radiation Awareness and Detection in Natural Environment. *Elsevier Science Publication (2025)*.

Total Number of Research Publications:

Research Papers = **223**

Conference Proceedings/Book Chapter = **27**

Most of the listed publications can be viewed online on Scopus, Web of Science, Google Scholar and Research Gate

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