

Detailed CV

Name: **PROF. YEROL NARAYANA**

Educational Qualification: M.Sc., Ph.D.

Designation: Senior Professor and Chairman



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Mangalore University
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Research Areas: Magnetic Materials for Environmental Remediation.
Nanocomposites.
Environmental Radioactivity.
Radiation Biophysics.

Professional Teaching Experience: 30 Years

Research Guidance (M.Phil. /Ph.D.):

Completed students' list:

Ph.D. DEGREES AWARDED		
1. Pramood K Shetty	2007	Studies on transportation and enrichment of Radionuclides in monozite areas of Southwest Coast of India

2. K M Rajashekara	2007	Studies on Transportation of Radionuclides from Western Ghats to Arabian Sea through some major rivers
3. Prakash V	2008	Studies on behaviour of radionuclides and trace elements in the environment of Mangalore
4. Santhosh Achary	2010	Radiobiological studies using gamma radiation and pulsed electron beam of varying dose rates
5. Praveen Josheph	2012	Effect of radiation quality and irradiation condition on the induction of damages in biological system
6. Primal D Pinto	2013	Studies on vertical profiles of radionuclides along coastal Kerala
7. Naveen Bapalliga	2014	Comparative study of important physical properties of new organic single crystals
8. Rajesh K Nairy	2016	Studies on the effect of dose rate and oxygen in radiation induced damages in different genomic systems
9. Venunathan N	2017	Studies on distribution and transport of radionuclides in the river ecosystem of coastal Kerala
10.Kaliprasad C S	2017	Studies on Transport and Distribution of Radionuclides in Major River Ecosystems of South Karnataka
11.Saritha Suvarana	2018	Synthesis, characterization and radiomodifying effects of 2DG capped gold nanoparticles against normal and tumour cells
12.Prakash M M	2018	Studies on radiation level and radionuclide distribution in the environs of Coorg district of Karnataka state

13.Jagdeesha B G	2018	Studies on Radiation level and Radon exhalation and trace elements concentration in Hassan district of south Karnataka
14.Poornima U S	2021	Studies on synthesis characterization and radiation induced effect on Graphene
15.Sunil K C	2022	Studies on synthesis and application of super paramagnetic nanoparticles in radiotherapy
16.Sandesh Achari	2022	Studies on radiation level and radiological hazards in the environs of Udupi on the south west coast of India
17.Preethy Augustine	2023	Studies on multifunctional properties of multiferroic nanocomposites
18.Malleshi Kavasara	2023	Studies on radionuclide distribution and radon exhalation rate in the environs of Davanagere district of south India
19.Kamalakar V Dawalekar	2024	Studies on radiation level and radionuclides distribution in Belagavi district of south India
20.Lokesh N	2024	Radon level and radionuclide distribution in and around building stone mines of dakshina kannada district of south India

Ongoing Registered Students' list

1. Chethan G		Studies on areca husk fibers of western ghat region of southern Shimoga district to use it as thermal insulator
2. Vasuda G R		Studies on magnetic and optical properties of ferrite nanocomposites
3. Sudarshan K R		Optimization and fabrication of metal oxide thin film transistor for gas sensor application
4. Sujith S		Study on uptake of radionuclides and trace elements by plantation crops in Dakshina Kannada and Kodagu districts of Karnataka
5. Ranjan Shetty		Accumulation of radionuclides and trace elements in epiphytes in the western ghat region of India
6. Kavya G K		Studies on the mechanical and thermal properties of reinforced composites of husk fibers of ice apple grown in coastal Karnataka region of India
7. Apeksha		Synthesis and characterization of magnetic nanoparticles for their application in waste water treatment
8. Mahantesh Bankapur		Studies on the radionuclide distribution and their dependence on the mineralogy of soils in the environs of Dharwad district of Karnataka, India

Research Projects:

Completed:

1. Studies on environmental radioactivity and impact assessment of Kaiga power reactors (2000-04), Rs. 48 Lakhs. Sanctioned by BRNS, DAE, Govt. of India

2. Studies on effects of high energy electrons and bremsstrahlung radiations on biological systems using Microtron accelerator (2007-10), Rs. 12 Lakhs Sanctioned by BRNS, DAE, Govt. of India
3. Study of radiation induced DNA damages in biological systems by comet assay using Microtron accelerator (2010-14), Rs. 20 Lakhs Sanctioned by BRNS, DAE, Govt. of India
4. Study of dose rate effects on the induction of biological damages using electron beam accelerator (2012-15), Rs. 12 Lakhs Sanctioned by UGC, Govt. of India
5. Evaluation of oxidative stress in human peripheral blood lymphocytes induced by energetic electrons and protons delivered at different dose rates (2015-19), Rs.18 Lakhs, Sanctioned by BRNS, DAE, Govt. of India.
6. Areca husk fiber as thermal insulator and acoustical absorber: Conversion of agricultural waste into useful product (2021-2023), Rs.30 Lakhs, Sanctioned by VGST, Govt. of Karnataka.

Ongoing: Establishing research facilities at the Department of Physics, Mangalore University under FIST program (2019-), Rs.221 Lakhs, Sanctioned by DST, Govt. of India.

Research Journal Publications:

International:

1. Radhakrishna A P, Somashekarappa H M, Narayana Y & Siddappa K. A New Natural Background Radiation Area on the Southwest Coast of India, Health Physics (USA), Vol. 65, No. 4, pp. 390-395, 1993.
2. Narayana Y, Somashekarappa H M, Radhakrishna A P, Balakrishna K M & Siddappa K. External gamma radiation dose rates in coastal Karnataka, Journal of Radiological Protection (UK), Vol. 14, No. 3, pp. 257-264, 1994.

3. Narayana Y, Radhakrishna A P, Somashekarappa H M, Karunakara N, Balakrishna K M & Siddappa K. Distribution and enrichment of radionuclides in the newly discovered high background area in Ullal on the south west coast of India, Health Physics (USA), Vol. 69, No. 2, pp. 178-186, 1995.
4. Narayana Y, Radhakrishna A P, Somashekarappa H M, Karunakara N, Balakrishna K M & Siddappa K. Distribution of some natural and artificial radionuclides in the environment of coastal Karnataka of south India, Journal of Environmental Radioactivity (UK), Vol. 28, No. 2, pp. 113-139, 1995.
5. Narayana Y, Radhakrishna A P, Somashekarappa H M, Karunakara N, Balakrishna K M & Siddappa K. Internal exposure to the population of coastal Karnataka of south India from dietary intake, Radiation Protection Dosimetry (UK), Vol. 62, No. 3, pp. 131-138, 1995.
6. Radhakrishna A P, Somashekarappa H M, Narayana Y & Siddappa K. Distribution of some natural and artificial radionuclides in Mangalore environment of south India, Journal of Environmental Radioactivity (UK), Vol. 30, No. 1, pp. 31-54, 1996.
7. Somashekarappa H M, Narayana Y, Radhakrishna A P & Siddappa K. Atmospheric radon levels and its emanation rate in the environment of Kaiga, Radiation Measurements (USA), Vol. 26, No. 1, pp. 35-41, 1996.
8. Somashekarappa H M, Narayana Y, Radhakrishna A P, Karunakara N, Balakrishna K M & Siddappa, K. Radioactivity in the tropical forest vegetation of Kaiga environment, Journal of Environmental Radioactivity (UK), Vol. 31, No. 2, pp. 189-198, 1996.
9. Narayana Y, Somashekarappa H M, Karunakara N, Balakrishna K M, Siddappa K, Kumar S, Gopalani D & Ramaseshu P, Seasonal variation of indoor radon levels in coastal Karnataka on the south west coast of India, Radiation Measurements (USA), Vol.29, No.1, pp.19-25, 1998.

10. Karunakara N, Somashekarappa H M, Narayana Y, Avadhani D N, Mahesh H M, Balakrishna K M & Siddappa K. Caesium-137 concentration in Kaiga Environment, Radiation Physics and Chemistry (UK), Vol.51, No.4-6, pp.623-624, 1998.
1. Narayana Y, Karunakara N, Avadhani D N, Mahesh H M, Somashekarappa H M and Siddappa K. Prominent artificial radionuclides in the environment of coastal Karnataka of south west coast of India, Journal of Radiological Protection (UK), Vol. 20, pp. 295-300, 2000.
12. Karunakara N, Avadhani D N, Mahesh H M, Somashekarappa H M, Narayana Y and Siddappa K. Distribution and enrichment of ^{210}Po in the environment of Kaiga in South India, Journal of Environmental Radioactivity (UK), 51, pp. 349-362, 2000.
13. Rajashekara K M, Narayana Y and Siddappa K. Po-210 and Pb-210 levels in soil samples of river environment of coastal Karnataka, Journal of Environmental Radioactivity (UK), Vol. 54, pp. 341-350, 2001.
14. Avadhani D N, Mahesh H M, Somashekarappa H M, Karunakara N, Narayana Y and Siddappa K. Distribution and behavior of ^{210}Po and ^{210}Pb in soil samples of Goa, south west coast of India, Journal of Environmental Radioactivity (UK), Vol. 51, pp. 21-30, 2001.
15. Mahesh H M, Avadhani D N, Somashekarappa H M, Karunakara N, Narayana Y and Siddappa K. $^{210}\text{Po}/^{210}\text{Pb}$ ratio in air and rain water in the environment of coastal Karnataka and Kaiga, Journal of Environmental Radioactivity (UK), Vol. 52, pp. 175-183, 2001.
16. Narayana Y, Avadhani D N and Siddappa K. Comparative studies of natural radioactivity in environmental matrices of high background and normal background areas of Kerala coast, India, Radiation Protection Dosimetry (UK), Vol. 95, No. 4, pp. 319–326, 2001.

17. Narayana Y, Shetty P K and Siddappa K. Enrichment of natural radionuclides in monazite areas of coastal Kerala, International Congress Series (UK), Vol. 1276, pp. 333–334, 2005.
18. Rajashekara K M, Narayana Y, Karunakara N and Siddappa K. Transportation of radionuclides from Western Ghats to Arabian sea through some major rivers of South India, International Congress Series (UK), Vol. 1276, pp. 348–349, 2005.
19. Rajeev Bhat, Sridhar K R, Rajashekara K M and Narayana Y. ^{210}Po bioaccumulation in coastal sand dune wild legumes—*Canavalia* spp. of southwest coast of India, Journal of Environmental Monitoring (UK), Vol. 7, pp. 856–860, 2005.
20. Shetty P K, Narayana Y and Siddappa K. Vertical profiles and enrichment pattern of natural radionuclides in monazite areas of coastal Kerala, Journal of Environmental Radioactivity (UK), Vol.86, pp. 132–142, 2006.
21. Narayana Y, Shetty P K and Siddappa K. Behavior of ^{210}Po and ^{210}Pb in high background areas of coastal Kerala on the south west coast of India, Applied Radiation and Isotopes (UK), Vol.64, pp. 396–401, 2006.
22. Rajashekara, K M., Narayana, Y and Siddappa, K. ^{222}Rn concentration in ground water and river water of coastal Karnataka, Radiation Measurements (USA), Vol. 42, Issue 3, pp. 472–478, 2007.
23. Narayana, Y., Rajashekara, K M and Siddappa, K. Natural radioactivity in some major rivers of coastal Karnataka on the south west coast of India, Journal of Environmental Radioactivity (UK), Vol. 95, pp. 98–106, 2007.
24. Rajashekara, K M., Narayana, Y and Siddappa, K. Effective dose owing dissolved ^{222}Rn in potable water of coastal Karnataka of southwest coast of India, Int. J. Low Radiation (Switzerland), Vol. 4, No. 3, pp. 209–216, 2007.
25. Narayana, Y., Rajashekara, K M and Siddappa, K. Activity of ^{226}Ra , ^{232}Th and ^{40}K in riverine environs and evaluation of radiological hazards, Int. J. Low Radiation (Switzerland), Vol. 4, No. 3, pp. 200–207, 2007.

26. Shetty, P K and Narayana, Y. Radioactivity and evaluation of radiation hazard along coastal Kerala, *Int. J. Low Radiation (Switzerland)*, Vol. 4, No. 3, pp. 189–199, 2007.
27. Narayana, Y and Prakash, V. Radioactivity in Ayurvedic medicinal plants, *Int. J. Low Radiation (Switzerland)*, Vol. 4, No. 3, pp. 184–188, 2007.
28. Prakash, V and Narayana, Y. Enrichment of ^{210}Po and ^{210}Pb in the Padubidri environs of Karnataka, *Int. J. of Nuclear Energy Science and Technology (International)*, Vol. 3, No. 4, pp. 378–385, 2007.
29. Rajashekara K M., Narayana Y and Siddappa K. Distribution of ^{210}Po and ^{210}Pb in riverine environs of coastal Karnataka, *Journal of Radioanalytical and Nuclear Chemistry (Springer)*, Vol. 277, No. 2, pp. 379–388, 2008.
30. Navin N.Bappalige, Brinda, Narayana Y and Upadyaya V. 1-(2,4-Dichlorophenyl)-3-[4-(dimethyl-amino)phenyl] prop-2-enone, *Acta Crystallographica Section E (UK)*, Vol. 65, 01266, 2009.
31. Santhosh Acharya, Ganesh Sanjeev, Bhat N N, Siddappa K and Narayana Y. The effect of electron and gamma irradiation on the induction of micronuclei in Cytokinesis-blocked human blood lymphocytes, *Radiation and Environmental Biophysics*, Vol. 48, pp. 197–203, 2009.
32. Narayana Y and Prakash V. Enrichment and vertical profiles of ^{210}Po and ^{210}Pb in monazite areas of coastal Karnataka, *Applied Radiation and Isotopes*, Vol. 68, pp. 1137–1142, 2010.
33. Santhosh Acharya, Ganesh Sanjeev, Bhat N N and Narayana Y. Dose rate effect of pulsed electron beam on micronucleus frequency in human peripheral blood lymphocytes, *Arhiv za Higijenu Rada i Toksikologiju (Croatia)*, Vol. 61, pp. 77–83, 2010.

34. Narayana Y and Rajashekara K M. Study of ^{210}Po and ^{210}Pb in the riverine environments of coastal Karnataka, *Journal of Environmental Radioactivity* (UK), Vol. 101, No. 6, pp. 468–471, 2010.
35. Narayana Y and Rajashekara K M. The importance of physico-chemical parameters on the speciation of natural radionuclides in riverine ecosystems, *Journal of Environmental Radioactivity* (UK), Vol. 101, pp. 958–964, 2010.
36. Shetty P K and Narayana, Y. Variation of radiation level and radionuclide enrichment in high background area, *Journal of Environmental Radioactivity* (UK), Vol. 101, pp. 1043–1047, 2010.
37. Santhosh Acharya, Ganesh Sanjeev, Bhat N N, Praveen Joseph, Sreedevi B and Narayana Y. Dose rate effect on micronuclei induction in human lymphocytes exposed to single pulse and multiple pulse of electrons, *Radiation and Environmental Biophysics*, Vol. 50, pp. 253–263, 2011.
38. Narayana Y and Venunathan N. Dependence Of ^{210}Po Activity on Organic Matter in Riverine Environs of Coastal Kerala, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 290, No. 1, pp. 131–135, 2011.
39. Praveen Joseph, Santhosh Acharya, Ganesh Sanjeev, N.N. Bhat and Y. Narayana. Cell Inactivation Studies On Yeast Cells Under Euoxic and Hypoxic Condition Using Electron Beam from Microtron Accelerator, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 290, No. 1, pp. 209–214, 2011.
40. Primal D'Cunha, Sathyanarayana Bhat P and Narayana Y. A Study On ^{210}Po Activity in Soil at Different Depths Along Coastal Kerala, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 290, No. 1, pp. 171–174, 2011.
41. Prakash V, Narayana Y, Saxena M K, Deb S B, Nagar B K and Ramakumar K L. Accumulation of Toxic Trace Elements by Medicinal Plants, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 290, No. 1, pp. 103–107, 2011.

42. Shetty P K and Narayana Y. Depth Profile Study of Natural Radionuclides in The Environment of Coastal Kerala, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 290, No. 1, pp. 159–163, 2011.
43. Rajashekara K M, Narasimha A, Shetty P K, Prakash V and Narayana Y. Effective Doses Due To Intake of Radiotoxic Radionuclides ^{226}Ra , ^{210}Po and ^{210}Pb Through Drinking Water of Coastal Karnataka, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 290, No. 1, pp. 137–140, 2011.
44. Narayana Y, Navin N Bappalige, Umesh G and Manjunatha K B. Second and Third harmonic conversion efficiency of two new organic crystals by Nd: YAG laser – A comparative Study, *International Journal of Science Research*, Vol. 7, No.4, pp. 298–300, 2012.
45. Praveen Joseph, N.N. Bhat, David Copplestone and Y. Narayana. Production of gamma induced Reactive Oxygen Species and damage of DNA molecule in HaCaT cells under Euoxic and Hypoxic condition, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 302, pp. 983–988, 2014.
46. Praveen Joseph, Rajesha Nairy, Santhosh Acharya, Ganesh Sanjeev and Y. Narayana. Chemical Dosimeters for Electron Beam Dosimetry of Microtron Accelerator, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 302, pp. 1013–1019, 2014.
47. Primal Pinto and Narayana Yerol. Studies on the Seasonal Variation and Vertical Profiles of Natural Radionuclides in High Background Radiation Areas of Kerala on the South West Coast of India, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 302, pp. 813–817, 2014.
48. Rajesha Nairy K, Nagesh N Bhat, Anjaria K B, Sreedevi B, Sapra B K and Narayana Yerol. Study of Gamma Radiation Induced Damages and Variation of Oxygen Enhancement Ratio with Radiation Dose using *Saccharomyces*

cerevisiae, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 302, pp. 1027–1033, 2014.

49. Santhosh Acharya, N.N Bhat, Ganesh Sanjeev and Y. Narayana. Evaluation of Micronuclei Induced by Energetic Electrons Delivered at Different Dose Rates Per Pulse, *Journal of Radioanalytical and Nuclear Chemistry*, Vol. 302, pp. 993–997, 2014.

50. Rajesha K Nairy, Nagesh N Bhat, Praveen Joseph, Ganesh Sanjeev and Narayana Y. DNA Damage and Repair Kinetics Studies Using 8 MeV Pulsed Electron Beam from Microtron Accelerator, *International Journal of Radiation Research*, Vol.13, No.3, pp.213–220, 2015.

51. Jagadish B G and Narayana Y. Radium and radon exhalation rate in soil samples of Hassan district of south Karnataka, India, *Radiation Protection Dosimetry*, 2016, 1–5.

52. Kaliprasad C S and Narayana Y. Distribution of ^{210}Po in Hemavathi riverine environment, *Radiation Protection Dosimetry*, Vol.171, No.2, 2016.

53. Venunathan N, Kaliprasad C S and Narayana Y. Natural radioactivity in sediments and river bank soil of Kallada river of Kerala, south India and associated radiological risk, *Radiation Protection Dosimetry*, 2016, 1–6.

54. Narayana Y, Kaliprasad CS and Ganesh Sanjeev. Natural radionuclide levels in sediments of Cauvery riverine environment, *Radiation Protection Dosimetry*, 2016, 1–5.

55. Rajesha K Nairy, Nagesh N Bhat, Ganesh Sanjeev and Narayana Yerol. Dose response study using micronucleus cytome assay: a tool for bio dosimetry application, *Radiation Protection Dosimetry*, 2016, 1–9.

56. Kaliprasad C S and Narayana Y. Speciation and behavior of ^{210}Po and ^{210}Pb in the riverine ecosystem of Cauvery, a major river of south India, *Radiochemistry (Springer)*, Vol. 58, No. 4, pp. 431–437, 2016.

57. Venunathan N and Narayana Y. Activity of ^{210}Po and ^{210}Pb in the riverine environs of coastal Kerala on the south west coast of India, *Journal of Radiation Research and Applied Sciences (Elsevier)*, 2016, 1–8.
58. Kaliprasad C S, Narayana Y. Radon concentration in water, soil and sediment of Hemavathi River environments, *Indoor and Built Environment (SAGE)*, 2017, 27(5), pp. 587–596.
59. Saritha Suvarna, Ujjal Das, Sunil K C, Snehasis Mishra, Sudarshan M, Krishna Das Saha, Sanjit Dey, Anindita Chakraborty, Narayana Y. Synthesis of novel glucose capped gold nanoparticles are better candidate for theranostic, *PLOS ONE*, 2017.
60. Vinutha P R, Jayarama A, Kaliprasad C S, Narayana Y, Byrappa K, Madan Kumar S and Suresh Kumar M R. Synthesis, Single Crystal Structure and Spectroscopic Aspects of Chalcone 2(2E)-1-(4'-bromobiphenyl-4-yl)-3-(2,3-dimethoxybenzaldehyde)prop-2-ene-1-one, *Chemical Data Collection (Elsevier)*, 2017.
61. Prakash, M.M., Kaliprasad, C. S., Narayana, Y. Distribution of ^{210}Po in the soils of Virajpet taluk, Coorg District, Karnataka, *Journal of Radiation Research and Applied Sciences (Elsevier)*, Vol. 10, 57–62, 2017.
62. Prakash, M.M., Narayana, Y., Kaliprasad, C. S. Gamma dose-based analysis of beach sand samples from the eastern coast of Karnataka, India, *Radiation Physics and Chemistry (Elsevier)*, 2018.
63. Kaliprasad, C. S., Prakash, M.M., Narayana, Y. Behavioral patterns of natural radionuclides in the surface soil of polluted and non-polluted regions of coastal Karnataka, India, *Radiation Physics and Chemistry (Elsevier)*, 2018.
64. Kaliprasad, C. S., Prakash, M. M., Narayana, Y. Temporal variations in natural background radiation around thermal power stations using track etch detectors and gamma spectrometry, *Radiation Physics and Chemistry (Elsevier)*, 2018.

65. Kaliprasad C S, Prakash M M, Narayana Y. Assessment of radiation hazard index and radiotoxic risk in bottom sediments of tropical riverine system, *Journal of Radioanalytical and Nuclear Chemistry (Springer)*, 2018.
66. Kaliprasad C S, Narayana Y. Radiological safety and environmental impact studies of the sediment and soil of Tunga River, *Journal of Radioanalytical and Nuclear Chemistry (Springer)*, 2018.
67. Kaliprasad C S, Prakash M M, Narayana Y. Geochemical studies and natural radionuclide distribution in soils affected by effluents of a thermal power plant, *MOJ Toxicology (USA)*, Vol. 4, Issue 5, 2018.
68. Nadira Mahamood K, Sunil K C, Narayana Y. Crystallographic characterization of 4,6-dibromoquinaldine and 3-chloro-4-(methylthio) aniline, *Journal of Radioanalytical and Nuclear Chemistry (Springer)*, 2019.
69. Divya P V, Lidiya J, Kaliprasad C S, Narayana Y. Determination of gross alpha and gross beta activity in groundwater used for drinking from Udupi district, Karnataka, India, *Journal of Radioanalytical and Nuclear Chemistry (Springer)*, 2019.
70. Rajashekara K M, Ganesh Sanjeev, Venunathan N and Narayana Y. Estimation of ^{210}Po , ^{210}Pb and Associated Dose in Mangroves of Estuarine Wetlands of Karnataka Coast, *Journal of Radioanalytical and Nuclear Chemistry (Springer)*, 2019.
71. Preethy Augustine, Narayana Y. Gamma Dose Estimation and Sediment Radioelement Distribution in River regime Associated with Natural High Background, *Materials Today: Proceedings (Elsevier)*, 2020.
72. Preethy Augustine, Narayana Y. Radiation dose assessment due to exposure of radionuclides in coastal areas and nearby region of southwestern India, *Materials Today: Proceedings (Elsevier)*, 2020.
73. Vinutha P R, Narayana Y. Magnetic Susceptibility and Its Correlations with Natural Radioactivity in Soils near Thermal Power Stations, *Materials Today: Proceedings (Elsevier)*, 2020.

74. Sunil K C, Preethy Augustine, Lokesh N, Karthik Kumar S, Narayana Y. Crystallographic and spectral investigation of 2-(4-Chlorophenyl)-1-(1H-indol-3-yl) ethanol, *SN Applied Sciences (Springer)*, Vol. 2, 2020.
75. Sunil K C, Narayana Y. Structural, vibrational and theoretical analysis of 1-(2-methoxyphenyl)-3-(1H-pyrrol-2-yl) prop-2-en-1-one: An insight into its NLO behavior and anti-proliferative activity, *Inorganic Chemistry Communications (Elsevier)*, Vol. 133, 108809, 2021.
76. Sunil K C, Narayana Y. Second Harmonic Generation and Third Order NLO Polarizability of Thiophene Bearing Chalcone Derivatives, *Ceramics International (Elsevier)*, Vol. 47, Issue 11, Part B, 15393–15403, 2021.
77. Preethy Augustine, Narayana Y. Estimation of alpha energy concentrations and annual effective dose in vegetables of HBRA region: A dose bio-indicator study, *Ceramics International (Elsevier)*, Vol. 47, Issue 17, Part A, 24810–24820, 2021.
78. Preethy Augustine, Sunil K C, Narayana Y. Evaluation of dosimetric variation using fruit datasets collected from HBRA and NBRA regions along SW coast of India, *Nanoscale Advances (Royal Society of Chemistry, UK)*, Vol. 3, pp. 3690–3703, 2021.
79. Malleshi Kavasara, Prakash V, Narayana Y. Evaluation of radiological dose metrics in high natural background radiation areas of coastal Karnataka using decoction-based traditional plant medicines, *Journal of Radioanalytical and Nuclear Chemistry (Springer)*, 2021.
80. Sandesh Achari, Malleshi Kavasara, Narayana Y. Influence of 40K distribution and particle size in forest floor litter layers in HBRA region along Western Ghats, *Journal of Radioanalytical and Nuclear Chemistry (Springer)*, 2021.

81. Malleshi Kavasara, Narayana Y. Influence of Evapotranspiration and Water Chemistry on Uranium Enrichment in Soil, *International Journal of Environmental Analytical Chemistry*, 2021.
82. Prakash M.M., Kaliprasad C. S., Narayana Y. Accumulation study of Po-210 by Mango fruits near sources of radioactivity, *International Journal of Environmental Analytical Chemistry*, 2022.
83. Kamalakar V D, Kaliprasad C S, Narayana Y. Estimation of uranium and radiological risk in soil around industrial discharge region of west coast, *International Journal of Environmental Forensics*, 2022.
84. Kamalakar V D, Kaliprasad C S, Narayana Y. Radiological and toxicological estimation of uranium in river water consumables near high background region, *Environmental Monitoring and Assessment (Springer)*, 2022.
85. Lokesh, N., Kaliprasad, C. S., Narayana, Y. Top soil uranium concentration and transfer ratio into cow milk samples near granite quarries, *Acta Geophysica (Springer)*, 2022.
86. Lokesh, N., Kaliprasad, C. S., Narayana, Y. Estimation of uranium concentration in cereals and pulses from farming sources in SAC region, *International Journal of Environmental Analytical Chemistry*, 2022.
87. Maletira M Prakasha, Kaliprasad C S, Narayana Y. Estimation of uranium in sugarcane: Influence of water quality in southwest India, *International Journal of Environmental Analytical Chemistry*, 2022.

National:

1. Rekhakutty R, Sahasrabudhe S G, Chakraborty P P, Iyengar T S, Iyer M R, Narayana Y & Siddappa K. A relative comparison of activities due to U & Th daughter products and its concentration in soils from different regions, *Bulletin of Radiation Protection (India)*, Vol. 16, No. 1 & 2, pp. 147-150, 1993.

2. Karunakara N, Radhakrishna A P, Somashekarappa H M, Narayana Y, Balakrishna K M & Siddappa K. Prominent alpha emitting radionuclides in Kaiga environ, *Indian Journal of Environmental Protection* (India), Vol. 14, No. 4, pp. 241-245, 1994.
3. Narayana Y, Somashekarappa H M, Karunakara N, Balakrishna K M, Siddappa K, Kumar S, Gopalani D & Ramaseshu P. Indoor radon levels in coastal Karnataka on the south west coast of India, *Bulletin of Radiation Protection* (India), Vol. 19, No. 2 & 3, pp. 12-15, 1996.
4. Karunakara N, Avadhani D N, Mahesh H M, Somashekarappa H M, Narayana Y, and Siddappa K. Radioactivity and Radiation Levels in the Environs of Kaiga, *Environmental Geochemistry* (India), Vol.1, No.1, pp.1-4, 1998.
5. Mahesh H M, Avadhani D N, Somashekarappa H M, Karunakara N, Narayana Y, and Siddappa K. U-238, Pb-210 and Po-210 concentrations in water samples of Coastal Karnataka and Kaiga environs, *Journal of Environmental Geochemistry* (India), Vol. 2, No. 2, pp. 59-62, 1998.
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71. Kaliprasad C S and Narayana Y. Seasonal Influence on Natural Radionuclide Distribution in Sediments of the River Kaveri, Karnataka, *Radiation Protection and Environment* (India), Vol. 40, No. 2–3, pp. 80–84, 2017.
72. Jagadish B G and Narayana Y. Bioindicators for Monitoring Soil Contamination in Forest Zones of Western Ghats, Karnataka, *Pearl* (India), Vol. 6, No. 2, pp. 27–31, 2020.
73. Shetty P K and Narayana Y. Variation in Radioactivity Pattern in Fruit Bearing Plants in High Background Radiation Areas of Kerala, *Pearl* (India), Vol. 5, No. 1, pp. 25–29, 2019.
74. Rajashekara K M and Narayana Y. Measurement of Dissolved Uranium and Associated Effective Dose in River Waters of Karnataka, *Journal of Radiation Protection and Environment* (India), Vol. 41, No. 2, pp. 83–91, 2018.
75. Prakash V and Narayana Y. Risk Assessment and Distribution Pattern of Natural Radionuclides in Soils of Southern India, *Radiation Protection and Environment* (India), Vol. 42, No. 3, pp. 123–128, 2019.

76. Kaliprasad C S and Narayana Y. Evaluation of External and Internal Radiation Doses Induced by Soil Radioactivity at Power Plant Vicinities, *Radiation Protection and Environment* (India), Vol. 42, No. 4, pp. 145–152, 2019.
77. Jagadish B G and Narayana Y. Potential Health Risks from Edible Forest Plants Consumed by Local Tribes in Radiation Rich Zones, *Pearl* (India), Vol. 7, No. 1, pp. 72–78, 2021.
78. Prakash V and Narayana Y. ^{210}Po and ^{210}Pb Levels in Soil and Dietary Crops of High Background Area Zones, *Pearl* (India), Vol. 6, No. 2, pp. 46–51, 2020.
79. Narayana Y, Jagadish B G and Sudarshan M. Assessment of Radiation Hazard from Clay Minerals Used in Rural Construction Practices, *Journal of Radiation and Nuclear Chemistry* (India issue), Vol. 318, No. 2, pp. 335–341, 2020.

Books / Book chapters / Translations published with ISBN No.

Edited: Recent Advances in Materials Science and Biophysics

Authored: Radioactivity in Rivers

Papers / poster presentations in Conferences / Seminars / Symposia:

International

1. International conference on R&D using Electron Accelerators, Mangalore University, Sept. 28-30, 1995.
 2. International Conference on Health Physics Instrumentation and Analytical Techniques, Heriot-Watt University, Edinburgh, UK, April 24-26, 2001.
 3. Young Researchers Meeting (YR 2001), Royal Society of Chemistry, Hammersmith Hospital, London, July 11, 2001.
 4. Conference on Environmental Radioactivity, Imperial College, London, Sept. 12-14, 2001.
- 2nd International Conference on Radioactivity in the Environment, Nice,

- France, October 2-6, 2005.
5. International Conference on Low Dose Radiation Effects on Human Health, Hindu Banaras University, Varanasi, November 20-22, 2006.
 6. Second International Conference on Application of Radiotracers in Chemical, Environmental and Biological Sciences, Saha Institute of Nuclear Physics, Kolkata, November 7–13, 2010.
 7. 7th International Conference on High Levels of Natural Radiation and Radon Areas (7HLNRRA), Mumbai, November 24-26, 2010.
 8. International Conference on Recent Advances in Material Sciences (RAMS-2012), Karnataka State Higher Education Council, Bangalore, November 6–8, 2012.
 9. 2nd International Conference on Po Pb isotopes (INCO-PoPb-2013), Mangalore University, Mangalore, February 11-13, 2013.
 10. International Conference on Radiation Biology and Clinical Applications, K S Hegde Medical Academy, Mangalore, October 25-27, 2013.
 11. International Conference on Application of RadiotraCers and Energetic Beams in Sciences (ARCEBS-14), Saha Institute of Nuclear Physics, Kolkata, January 12-18, 2014.
 12. International Intradisciplinary Conference on the Frontiers of Crystallography (IICFC-2014), Field Marshal K M Cariappa College, Madikeri, December 29-30, 2014.
 13. International Conference on Radiological Safety in Workplace, Nuclear Facilities and Environment (IARPIC-2016), Indira Gandhi Centre for Atomic Research, Kalpakkam, February 22-25, 2016.
 14. International Conference on Radiation Biology (ICRB-16), SRM University, Chennai, November 9–11, 2016.
 15. International Conference on Advanced Functional Materials for Energy, Environment and Health Care (AFMEEHC-2019), Vijnan Bhavan, University of Mysore, Mysore, March 18-20, 2019.

16.4th international Conference on “Global Trends in Sustainable Technology & its Application in Applied Sciences (ICGTSTAS – 2024), Reva university, Bengaluru, India, October 24 & 25, 2024.

17.3rd International Conference on Multifunctional Materials, Geethanjali College of Engineering and Technology, Hyderabad, December 19-21, 2024.

National

1. Tenth National Symposium on Radiation Physics, Kalpakkam & Madras, India, Aug. 17-20, 1993.
2. Seventh National Conference on Particle Tracks in Solids, Jodhpur, Oct. 9-11, 1991.
3. Ninth National Symposium on Radiation Physics, Osmania University, Hyderabad, Nov. 27-29, 1991.
4. First National Symposium on Environment, BARC, Bombay, Feb. 3-5, 1992.
5. National Seminar on Radiation, Environment and Man, Mysore University, Mysore, India, Oct. 8-9, 1992.
6. Third National Symposium on Environment, Thiruvananthapuram, March 1-4, 1994.
7. National Seminar on 100 years of Radioactivity, Mangalore University, Dec. 30-31, 1996.
8. National Seminar on Coastal Zone Environment Management, Mangalore University, Feb. 12-14, 1997.
9. 12th National Symposium on Radiation Physics, Defence Laboratory, Jodhpur, Rajasthan, Jan. 28-30, 1998.
10. 24th Conference of Indian Association for Radiation Protection, Kakrapar, Jan. 20-22, 1999.
11. National Seminar on Energy Options - Nuclear Energy, Mangalore University, Feb. 22-23, 1999.

- 12.13th National Seminar on Radiation Physics, Mangalore University, Dec. 21-23, 1999.
- 13.Thirteenth National Symposium on Environment, NEHU, Shillong, June 5-7, 2004.
- 14.National Seminar on Horizons in Environmental Science and Engineering in India, Bangalore University, Nov. 17-19, 2004.
- 15.14th National Symposium on Environment, Osmania University, Hyderabad, June 5-7, 2005.
- 16.16th National Symposium on Radiation Physics, Meenakshi College for Women, Chennai, Jan. 18-20, 2006.
- 17.National Conference on Emerging Trends in Physics, Electronics and Engineering Sciences, JSS College, Mysore, Sep. 25-26, 2006.
- 18.National Symposium on Nuclear and Radiochemistry, MS University of Baroda, Vadodara, Feb. 14-17, 2007.
- 19.15th National Symposium on Environment, Bharathiar University, Coimbatore, June 5-7, 2007.
- 20.38th National Seminar on Crystallography, Mysore University, Mysore, Feb. 11–13, 2009.
- 21.National Seminar on Nanoscience and Technology, Fatima Mata National College, Kollam, March 23–25, 2009.
- 22.18th National Symposium on Radiation Physics (NSRP-18), Mohanlal Sukhadia University, Udaipur, Nov. 19–21, 2009.
- 23.29th IARP National Conference, BARC, Mumbai, Feb. 3–5, 2010.
- 24.55th DAE Solid State Physics Symposium, Manipal University, Dec. 26–30, 2010.
- 25.2nd DAE-BRNS Symposium on Atomic, Molecular and Optical Physics, Karnatak University, Feb. 22–25, 2011.
- 26.Conference on Accelerator Radiation Safety (CARS 2011), BARC, Mumbai, Nov. 16–18, 2011.

27. National Conference on RAMS-2011, MS Ramaiah Institute of Technology, Bangalore, Dec. 12–14, 2011.
28. DAE-BRNS National Laser Symposium (NLS-20), Anna University, Chennai, Jan. 9–12, 2012.
29. 30th IARP National Conference, Mangalore University, March 15–17, 2012.
30. National Seminar on Applications of Isotopes and Radiation Technology, Bangalore University, June 21–23, 2012.
31. 19th NSRP, Mamallapuram, Chennai, Dec. 12–14, 2012.
32. National Seminar on Radiation and Environment, St. Philomena College, Puttur, Feb. 5–6, 2015.
33. National Conference on Particle Accelerators for Interdisciplinary Research, Mangalore University, April 11–13, 2017.
34. National Conference on Reaching the Unreached through Science and Technology, Mangalore University, Sep. 8–9, 2017.
35. National Conference on Radiation Physics & its Applications, Govt. College for Women, Kolar, April 6, 2018.
36. National conference on Energy harvesting technologies: Tapping the power of nature, St Aloysius (Deemed to be University), Mangalore, 23-24 July 2024.
37. 12th National Conference on “Condensed Matter Physics and Applications (CMPA – 2024), Manipal Institute of Technology, MAHE, Manipal, India, December 13 & 14, 2024.
38. National Conference on Bridging the many phases of matter, SDM College, Ujire, March 14-15, 2025.

Regional

1. Workshop on Environmental Radioactivity, Kaiga Nuclear Power Plant Site, Kaiga, April 16–18, 1990.
2. Workshop on Ionising Radiation Measurements, Madras, Tamil Nadu, Dec. 18–20, 1990.
3. Workshop on Nuclear Power and Environmental Radioactivity, Kuvempu

- University, Shimoga, March 20–21, 1993.
4. UGC Sponsored Workshop on Experimental Physics, Mangalore University, Feb. 21–24, 1994.
 5. DST Sponsored Workshop on Atmospheric Sciences, Mangalore University, Aug. 30–31, 1994.
 6. Workshop on Electronic Equipment Maintenance, Mangalore University, April 20–22, 1995.
 7. Workshop on Langmuir-Blodgett Films, Mangalore University, Aug. 29–30, 1995.
 8. Microtron Users Meeting, Mangalore University, Dec. 1997.
 9. Workshop on Science & Technology for Sustainable Development, Mangalore University, Dec. 27–28, 1999.
 10. Workshop for Microtron Users, Mangalore University, Oct. 24–25, 2001.
 11. Workshop on X-Ray Diffraction Studies on Clays, Mangalore University, Jan. 14, 2003.
 12. National Workshop on Irradiation of Food, Mangalore University, Sept. 29, 2003.
 13. Microtron Users Meeting, Mangalore University, June 13, 2003.
 14. National Workshop on Neutron Production using Accelerators, Mangalore University, March 27, 2004.
 15. Orientation Programme on INFONTE, Mangalore University, April 5, 2004.
 16. Workshop on Powder XRD, Mangalore University, Dec. 18, 2004.
 17. Decennial Celebration & Discussion Meeting on R&D Using Microtron, Mangalore University, Feb. 16–17, 2006.
 18. State Level Seminar on Modern Techniques in Radiation Physics, SDM College, Ujire, March 2–4, 2006.
 19. Environment, Education and Media, Mangalore University, March 21–22, 2006.
 20. National Workshop on Nuclear Data for Advanced Nuclear Systems, Mangalore University, Nov. 8–11, 2006.

21. Vision Group Meeting of DST, Govt. of Karnataka, University of Mysore, March 8–9, 2010.
22. User Awareness Workshop on Access to E-resources and N-LIST, Mangalore University, Oct. 23–24, 2010.
23. Orientation Workshop on Radiation in Physical, Chemical & Life Sciences, Mangalore University, June 25, 2015.

Invited / plenary talks delivered:

1. National Seminar on ‘Radiation and Environment’, St. Philomena College, Puttur, February 5-6, 2015.
2. National Conference on ‘Particle Accelerators in Inter-disciplinary Research’ (PAIR), Mangalore University, April 11-13, 2017.
3. National Conference ‘Radiation Physics and its Applications in Material Science and Medicine’ (NRM-2018), Govt. College for Women, Kolar, April 6, 2018.
4. National Symposium on ‘Nuclear and Radiochemistry’ (NUCAR-2019), DAE convention centre, Mumbai, January 15-19, 2019.
5. International Conference on ‘Advanced Functional Materials for Energy, Environment and Health Care’, University of Mysore, Mysore, March 18-20, 2019.
6. National Conference on Recent Advances in Physics for Interdisciplinary Development (RAPID-2K21), SJVP College, Harihara, Sept.29-30, 2021.
7. National Workshop on Nuclear Radiation: Experiments and Instrumentation, St. Philomena College, Puttur, May 19-20, 2022.

Scientific Lectures delivered in other institutions

1. Govt. Junior College, Kurnad, Mangalore: X-rays
2. Govt. College, Kasaragod: Radiation in the Environment

3. Chinmaya College, Kasaragod: Application of ionising radiation in medicine
4. University of Kerala: High background radiation areas
5. Sambalpur University: Radioactivity
6. Excellent PU College, Moodbidri: Science and Scientific thinking
7. S V S High School, Bantwal, Karnataka: Radiation and Environment
8. University of Mysore: Radiation sources and methods of measuring radioactivity in the environment.
9. University of Mysore: Physical basis of radiotherapy.

Chairing Scientific Sessions

1. 2nd International conference on Po Pb isotopes (INCO-PoPb-2013), Mangalore University, Mangalore, Feb. 11-13, 2013.
2. International Conference on Radiation Biology and Clinical Applications, K S Hegde Medical Academy, Mangalore, October 25-27, 2013.
3. International Intradisciplinary Conference on the Frontiers of Crystallography (IICFC-2014), Field Marshal K M Cariappa College, Madikeri, December 29-30, 2014.
4. Orientation Workshop on Radiation-Its Application in Physical, Chemical and Life Sciences, Department of Physics, Mangalore University, Mangalore, June 25-25, 2015.

Keynote Address

1. National Workshop on Nuclear Radiation: Experiments and Instrumentation, St. Philomena College, Puttur, May 19-20, 2022.

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Conferences / Seminars / Workshops / Symposia organized:

Conferences Organized

1. National Seminar on 'Inter-disciplinary Research: Challenges and Opportunities', Mangalore University, Oct. 18, 2016 (Convener).
2. Science Academies' Lecture workshop on Condensed and Soft Matter Physics, Mangalore University, February, 22-24, 2017 (coordinator).
3. National Conference on 'Particle Accelerators in Inter-disciplinary Research' (PAIR), Mangalore University, April 11-13, 2017 (Conference Chair).
4. International Conference on 'Recent Advances in Materials Science and Biophysics' (RAMSB), Mangalore University, January 23-25, 2018 (Convener).

Workshops/Seminars organised as a member of organising committee:

1. Workshop on Environmental Radioactivity, Kaiga nuclear power plant site, Kaiga, April 16-18, 1990.
2. UGC sponsored workshop on Experimental Physics, Mangalore University, Feb. 21-24, 1994.
3. DST sponsored workshop on Atmospheric Sciences, Mangalore University, Aug. 30-31, 1994.
4. Workshop on Electronic Equipment Maintenance, Mangalore University, April 20-22, 1995.
5. Workshop on Langmuir-Blodgett Films and Their Applications, Mangalore University, Aug. 29-30, 1995.
6. International conference on R&D using Electron Accelerators, Mangalore University, Sept. 28-30, 1995.
7. National Seminar on 100 years of Radioactivity, Mangalore University, Dec. 30-31, 1996.

8. Microtron Users meeting, Mangalore University, Dec. 1997.
9. National Seminar on Energy Options - Nuclear Energy, Mangalore University, Feb. 22-23, 1999.
10. 13th National Seminar on Radiation Physics, Mangalore University, Dec. 21-23, 1999.
11. Workshop on Science and Technology for Sustainable Development, Mangalore University, Dec. 27-28, 1999.
12. Workshop for Microtron Users, Mangalore University, Oct. 24-25, 2001.
13. South Zone Youth Festival, Mangalore University, Jan. 5 - 9, 2002.
14. National Workshop on irradiation of food for quality upgradation, Mangalore University, Sept. 29, 2003.
15. Microtron Users Meeting, Mangalore University, 13 June 2003.
16. National Workshop on neutron production using accelerators and applications, Mangalore University, March 27, 2004.
17. Decennial celebrations of Microtron Centre and discussion meeting on R & D using Microtron facility, Mangalore University, Feb. 16-17, 2006.
18. National Workshop on Nuclear Data for Advanced Nuclear Systems, Nuclear Databases and Applications, Mangalore University, November 08-11, 2006.
19. Fourth Annual conference, Karnataka State Science and Technology Academy, Mangalore University, January 28-29, 2012.
20. 30th Indian Association for Radiation Protection Conference, Mangalore University, March 15-17, 2012.
21. 2nd International conference on Po Pb isotopes (INCO-PoPb-2013), Mangalore University, Mangalore, Feb. 11-13, 2013.
22. International Conference on Application of RadiotraCers and Energetic Beams in Sciences (ARCEBS-14), Saha Institute of Nuclear Physics, Kolkata, Jan. 12-18, 2014.
23. Orientation Workshop on Radiation-Its Application in Physical, Chemical and Life Sciences, Department of Physics, Mangalore University, Mangalore, June

25-25, 2015.

24. National Conference on Particle Accelerators for Interdisciplinary Research, Mangalore University, April 11-13, 2017.

25. National Conference on 'Reaching the Unreached through Science and Technology: Recent Advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment' (NCSTRU-17). 08-09 September 2017, Mangalore University.

Awards / Fellowship / Recognition:

1. Commonwealth Post-Doctoral Fellowship award (2000-2001), Association of Commonwealth Universities, UK.
2. International Man of the Millennium award (1999), conferred by International Biographical Centre, UK.
3. Wighton Titular Fellowship award (2014), Association of Commonwealth Universities, UK.
4. Dr A K Ganguly Felicitation Prize (2016), Indian Association for Radiation Protection, India.
5. Best Teacher Award (2017), Mangalore University, Mangalagangothri.
6. Award for Research Publication (2018), Vision Group of Science and Technology, Govt. of Karnataka.
7. Best poster award (2016), RADNET, HNBG University, Uttarakhand.
8. Prof. B C Haldhar Best technical paper award (2017), 13th DAE-BRNS, International conference on NUCAR-2017, Bhubaneswar.
9. Best poster award (2018), National conference on radiation physics and its applications in materials science and Medicine, NRM-2018, Kolar.
10. Best paper award (2020), Second International Conference on Sustainable Urban development, Resource conservation and Food security, SURF-2020, Mangalore.

Membership of Professional Bodies

- Chairman, Dept. of Studies in Physics, Mangalore University (2016-18).
- Chairman, BoS (PG), Mangalore University (2018-21).
- Chairman, BoS (UG), Mangalore University (2018-21).
- Member, Academic Council, Mangalore University.
- Member, Faculty of Science and Technology, Mangalore University.
- Member, Academic Council, St. Aloysius college, Mangalore.
- Member, Academic Council, School of Social Works, Mangalore.
- Chairman, BoE, Mangalore University (2015-16, 2018-19).
- Member, Board of Studies, Mangalore University.
- Member, Board of Examiners, Mangalore University.
- Member, Board of Studies, University of Mysore.
- Member, Board of Studies, SDM College, Ujire.
- Member, Board of Examiners, Kuvempu University.
- Member, Board of Examiners, Karnatak University.
- Member, Board of Examiners, Bangalore University.
- Member, Board of Examiners, Manipal University.
- Member, Board of Examiners, University of Kerala.
- Member, Board of Examiners, Kannur University.
- Member, Board of Examiners, University of Pune..
- Member, Board of Examiners, Nitte University.
- Member, Board of Examiners, Gulburga University.
- Member, Board of Examiners, University of Western Cape, South Africa.
- Member, Board of Examiners, University of Stellenbosch, South Africa.
- Member, Science and Technology Committee, Mangalore University.
- Member, Department of Studies in Physics, Mangalore University.
- Member, Departmental Council, Mangalore University.
- Member, Board of Studies, St. Aloysius college, Mangalore.

- Life Member, Indian Society for Radiation Physics (NSRP).
- Life Member, Indian Association of Radiation Protection.
- Life Member, Geochemical Society of India.
- Life Member, Association of British Scholars (ABS), Mangalore.
- Life Member, Mangalore University Alumni Association (MAA), Mangalore.
- Member, Coordinating Group on Environmental Radioactivity in the UK (COGER).
- Member, Mangalore University Teachers' Association (MUTA).
- Executive Committee Member, MUTA (2001-02).
- Life Member, Indian Science Congress Association, ISCA (2017 onwards).
- Executive Committee Member, ABS (2004-05, 2022-23).
- Executive Committee Member, NSRP (2009-11).
- Executive Committee Member, MAA (2012-13).
- Secretary, ABS (2015-16).
- Member, Governing Council (University nominee), Karavali College, Mangalore.
- Member, Governing Council (University nominee), Dr NASM First Grade College, Nitte.
- Member, Governing Council (University nominee), Ambika College, Puttur.
- Member, Governing Council (University nominee), SDM College, Ujire.
- Member, BOA, University of Mysore.