Curriculum Vitae

Dr. Chaitali Vilasrao More

Postal Address: C/o Dr. P. S. Ugile-Pawar,
Professor,
Nuclear Physics Research Laboratory,
Department of Physics,
Dr. Babasaheb Ambedkar Marathwada University,
Chhatrapati Sambhajinagar – 431 004. (Maharashtra) INDIA.

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SEX: Female

Date of Birth: March 09, 1992

Category: Open

Caste: Maratha

Objective: To endeavour, the utmost crest in research reached through education.

To apply my expertise to satisfy the technical and commercial needs of the organization.

Education:

❖ 2018-2023, **Ph.D.,** Department of Physics, Dr. Babasaheb Ambedkar University Chhatrapati Sambhajinagar, Maharashtra, India.

Thesis entitled "Study of Radiation Shielding Parameters in Polymer Materials"

(Advisor: **Prof. Pravina S. Ugile-Pawar**)

❖ 2013-2015, **M.Sc. Physics (First Class)**, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar, Maharashtra, India.

(**Specialization:** Nuclear Physics, **CGPA:** 9.04)

❖ 2009-2013, **B.Sc. (First Class),** Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar, Maharashtra, India.

(**Subjects:** Physics, Mathematics, Electronics; **Percentage**: 74.28)

Research Interests:

- Polymeric Materials
- Radiation Shielding
- Materials science
- Nanotechnology etc

Teaching Experience:

Designation	Duration	Subjects Thought	Name of the College
Assistant Professor	Sept. 08, 2025 to till date	Physics, Engineering Physics	Dept. of Physics, School of Basic and Applied Sciences, MGM University, Chhatrapati Sambhajinagar
Lecturer	June-2016 to Nov.-2016	Physics	Govt. College of Arts and Science, Chhatrapati Sambhajinagar (MS).
Lecturer	August 2017 to March 2018	Physics	Vivekanand College Of Science, Chhatrapati Sambhajinagar (MS).
Lecturer	January-2023 to April-2023	Physics	Vivekanand College Of Science, Chhatrapati Sambhajinagar (MS).
Lecturer	July 2024 to April 2025	Forensic Physics	Government Institute of Forensic Science, Chhatrapati Sambhajinagar (MS).

M.Sc. Dissertation Report:

Completed the M.Sc. Major Project entitled “Effect of gamma irradiation on the electrical properties of cobalt spinel ferrite nanoparticles”.

Research Experience:

Working as a Research Scholar since June-2015 under the guidance of **Dr. Pravina S. Ugile (Pawar),** Professor and Head, Nuclear Physics Research Laboratory, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar (MS).

Reviewer:

1. Scientific Reports (2 Manuscripts reviewed)
2. RSC Advances (1 Manuscript reviewed)
3. Ceramics International (4 Manuscripts reviewed)
4. Structural Concrete (2 Manuscripts reviewed)
5. E-Polymers (2 Manuscripts reviewed)
6. Radiation and Environment Biophysics (1 Manuscript reviewed)
7. Analytical Chemistry Letters (1 Manuscript reviewed)
8. Progress in Nuclear Energy (1 Manuscript reviewed)
9. IScience (1 Manuscript reviewed)
10. Journal of King Saud University Science (1 Manuscript reviewed)
11. E-Polymers (1 Manuscript reviewed)
12. Journal of Taibah University for Science (1 Manuscript reviewed)
13. Radiation Physics and Chemistry (16 Manuscripts reviewed)
14. Polyolefins Journal (1 Manuscript reviewed)
15. Journal of Alloys and Compounds (3 Manuscripts reviewed)
16. Physica Scripta (2 Manuscripts reviewed)

Research Attribute:

Achieved position in "**Top Scientist Worldwide**" by **AD Scientific Index in the years 2023, 2024, and 2025**

Citations: 1451; **h-index:** 17 ; i-10 index- 23 (Google Scholar)

Books Published:

1. Dr. Faiyyaj I. Shaikh, Dr. Chaitali V. More, (2025). **Modern Physics**, Kailash Publications, Chh. Sambhajinagar (M.S.), Inda. ISBN: 978-93-49593-63-3
2. Dr. Faiyyaj I. Shaikh, Dr. Chaitali V. More, (2025). **A Textbook of Medical Physics**, Kailash Publications, Chh. Sambhajinagar (M.S.), India. ISBN: 978-93-48609-99-1
3. Dr. Chaitali V. More, Dr. Faiyyaj I. Shaikh (2025). **Electronic Communications**, Kailash Books, Chh. Sambhajinagar (M.S.), India. ISBN: 978-81-979007-4-7
4. Dr. Faiyyaj I. Shaikh, Dr. Chaitali V. More (**2024**). **Electrical Measurements**, Kailash Books, Chh. Sambhajinagar (M.S.), India. ISBN: 978-81-979007-2-3
5. Dr. Chaitali V. More, Dr. Faiyyaj I. Shaikh, Dr. B. B. Raje Shaikh (2024). **A Text Book and Manual of Optics**, Kailash Books, Chh. Sambhajinagar (M.S.), India. ISBN: 978-81-979007-9-2
6. Dr. Faiyyaj I. Shaikh, Dr. Chaitali V. More (**2024**). **Physics in Sports**, Kailash Books, Chh. Sambhajinagar (M.S.), India. ISBN: 978-81-979007-3-0
7. Dr. Faiyyaj I. Shaikh, Dr. Chaitali V. More (**2024**). **Basics of Forensic Physics**, Kailash Books, Chh. Sambhajinagar (M.S.), India. ISBN: 978-81-979007-5-4
8. Dr. Chaitali V. More, Dr. B. B. Raje Shaikh, Dr. B. U. Patil (2024). **Everyday Physics**, Anand Prakashan, Chh. Sambhajinagar (M.S.), India. ISBN: 978-93-91204-39-6

Scopus/Web of Science Publications (47):

1. **More, C. V.**, Ghuge, P. G., Naaz, F., Rathod, S. J., Darade, S. S., Pawar, P. P., ... & Sayyed, M. I. (2026). Evaluation of the optical properties and radiation shielding effectiveness of Ho2O3-Doped Borate Glasses. Materials Research Bulletin, 114035.
2. Hanfi, M. Y., Issa, S. A., **More, C. V.**, & Sayyed, M. I. (2026). Experimental Assessment of Gamma-Ray Attenuation Features of BaO-CaO-Enriched Borate Glasses as Lead-Free Radiation Shielding Materials. Nuclear Engineering and Technology, 104251.
3. Almuqrin, A. H., Sayyed, M. I., **More, C. V.**, & Kumar, A. (2026). Physical and Structural Analysis of Bi2O3-BaO-PbO2-B2O3-Gd2O3 Glasses for Gamma Ray Shielding Applications. Radiation Physics and Chemistry, 113758.
4. Najam, L. A., Namq, B. F., Wais, T. Y., Hanfi, M. Y., **More, C. V.**, & Sayyed, M. I. (2026). Influence of High-Z Oxide Content on Gamma-Ray Attenuation in Tellurite–Molybdate Glass Matrices. Applied Radiation and Isotopes, 112517.
5. Biradar, S., Issa, S. A., **More, C. V.**, & Sayyed, M. I. (2026). Enhanced radiation shielding through tunable physical, structural, and optical properties of BaO-and Er2O3-modified bismuth-borate glasses. The European Physical Journal Plus, 141(1), 51.

6. Vignesh, S., Jappes, J. W., & **More, C.** (2025). Theoretical and Experimental Investigations on the Gamma Radiation Shielding Properties of the Particles Dispersed Carbon fiber-based Multilayered Epoxy Composites. *Vacuum*, 114906.
7. **More, C. V.**, Algethami, M., Kutwade, V. V., & Pawar, P. P. (2025). Gamma-ray attenuation characteristics of PVA/titanium dioxide nanocomposites. Radiation Effects and Defects in Solids, 1-16.
8. Sayyed, M. I., **More, C. V.**, Hanfi, M. Y., & Kamath, S. D. (2025). Impact of BaO on the gamma-ray shielding performance of lanthanum barium-borate glasses. Scientific Reports, 15(1), 37009.
9. Sayyed, M. I., Biradar, S., **More, C. V.**, & Issa, S. A. (2025). Compositional Tuning of ZnO/RE-Doped Borate Glasses for Enhanced Optical and Gamma Shielding Properties. *Radiation Physics and Chemistry*, 113245.
10. Sayyed, M. I., Biradar, S., **More, C. V.**, & Mahmoud, K. A. (2025). Investigation of the optical and gamma-ray attenuation performance of borate-based glasses: Influence of BaO, ZnO, and CaO doping. *Annals of Nuclear Energy*, *221*, 111557.
11. Sayyed, M. I., Mahmoud, K. A., **More, C. V.,** & Najam, L. A. (2025). Enhancement of the radiation shielding properties of lead-borate glass: the impacts of Sb2O3, Al2O3 and ZnO. *Radiation Physics and Chemistry*, 113109.
12. Gaikwad, K. B., **More, C. V.**, Gattu, K. P., Niras, K. R., Obaid, S. S., & Pawar, P. P. (2025). Comparative study of radiation shielding parameters for CoZnFe2O4 and CuZnFe2O4 nanoparticles. *Radiation Effects and Defects in Solids*, 1-19.
13. Sayyed, M. I., **Chaitali V. More**, F. I. Shaikh, M. R. I. Faruque, S. Abdullah, S. Yasmin, K. A. Mahmoud, and Yasser Maghrbi (2025). Exploration of the effects of corporate lead, barium, and praseodymium oxides on mechanical, optical, structural, and gamma-ray shielding properties of borate-based glasses. *Annals of Nuclear Energy*, *223*, 111631.
14. Kalidas B. Gaikwad, Merfat Algethami, **Chaitali V. More**, M.I. Sayyed, Pravina P. Pawar. (2025). Enhanced radiation shielding properties of advanced ceramic materials, *Journal of Alloys and Compounds*, 1033, 181384.
15. **More, C. V.**, Sayyed, M. I., Kumar, A., Pawar, P. P., & Maghrbi, Y. (2025). Experimental study on borosilicate glasses: influence of Bi2O3 on gamma radiation shielding efficiency. *Radiation Physics and Chemistry*, 112952.
16. Sayyed, M. I., Kutwade, V. V., & **More, C. V.** (2025). Engineering optical and radiation shielding properties of barium-calcium borate glass matrix via PbO2/La2O3 modification. *Radiation Physics and Chemistry*, 112964.
17. **More, C. V.**, Sayyed, M. I., Kumar, A., Pawar, P. P., & Maghrbi, Y. (2025). Experimental study on borosilicate glasses: influence of Bi2O3 on gamma radiation shielding efficiency. *Radiation Physics and Chemistry*, 112952.
18. Sayyed, M. I., Biradar, S., **More, C. V.**, & Mahmoud, K. A. (2025). Investigation of the optical and gamma-ray attenuation performance of borate-based glasses: Influence of BaO, ZnO, and CaO doping. *Annals of Nuclear Energy*, *221*, 111557.
19. Sayyed, M. I., **More, C. V.**, Mahmoud, K. A., Khandaker, M. U., & Lam, S. E. (2025). ZnO-enhanced borotellurite glasses: A comparative investigation of radiation shielding via experiment and simulation approaches. *Radiation Physics and Chemistry*, *234*, 112812.
20. Ghuge, P.G., **More, C.V.**, Sayyed, M.I., Maghrbi, Y. and Pawar, P.P., 2025. Smart polymers as gamma ray Shields: Experimental evaluation of shielding performance. *Journal of Radiation Research and Applied Sciences*, 18(2), p.101398.

21. Sayyed, M. I., **More, C. V.**, Biradar, S., & Mahmoud, K. A. (2025). Physical, Mechanical, Optical Properties and Gamma-Ray protection Performance of High-Density BaO-PbO2-B2O3-Ho2O3 Glasses: Effect of B2O3/PbO2+ Ho2O3 Substitution. *Radiation Physics and Chemistry*, 112878.
22. Sayyed, M. I., **More, C. V.**, Almuqrin, A. H., & Mahmoud, K. A. (2025). Investigation of mechanical properties and radiation shielding features for CuO-PbO-B2O3-TiO2 glasses using MCNP5 simulation code. *Radiation Physics and Chemistry*, 112867.
23. Kanani, N. S., Parekh, D. J., Vasoya, N. H., Pawar, P. P., Modi, K. B., & **More, C. V.** (2025). Optimizing Gamma Radiation Defence through Strategic Fe3+-Substitution in CaCu3Ti4O12. *Journal of Alloys and Compounds*, 180594.
24. Nouh, A. S., **More, C. V.**, Benthami, K. A., & Nouh, S. A. (2025). Controlling the Radiation Shielding Features of Polycarbonate/Polybutylene Terephthalate Polymer Blends Doped with Zinc Oxide/Magnesium, Zinc Oxide/Magnesium/Copper, Zinc Oxide/Magnesium/Manganese, Zinc Oxide/Magnesium/Nickle and Nickel Molybdate Nano Fillers: Evading the Risk from Gamma Rays Exposure. *Journal of Macromolecular Science, Part B*, 1-11.
25. Sayyed, M. I., **More, C. V.**, Mahmoud, K. A., Khandaker, M. U., & Lam, S. E. (2025). ZnO-enhanced borotellurite glasses: A comparative investigation of radiation shielding via experiment and simulation approaches. *Radiation Physics and Chemistry*, 112812.
26. **More, C.V.**, Tarwal, N.L., Botewad, S.N., Anis, M., Kutwade, V.V., Akman, F., Agar, O. and Pawar, P.P., 2025. Radiation shielding efficacy of unsaturated polyester composites for gamma and neutron attenuation-enhanced with SnO_2. *Radiation Physics and Chemistry*, 229, p.112484.
27. Nouh, A. S., **More, C. V.**, Benthami, K. A., Barakat, M. M., & Nouh, S. A. (2025). Polycarbonate Nanocomposites for Application in X-Ray Shielding: Reducing X-Ray Hazards from Dental Cone-Beam Computed Tomography Imaging in Dental Patients. *Journal of Macromolecular Science, Part B*, 1-11.
28. Sayyed, M.I., **More, C.V.**, Kumar, A. and Maghrbi, Y., 2025. PSZB glass as a shielding material: Evaluating physical, mechanical, and gamma ray shielding performance. *Open Ceramics*, 21, p.100729.
29. Nouh, S.A., Alsufyani, S.J., **More, C.V.**, Benthami, K.A. and Barakat, M.M., 2025. Polycarbonate Nanocomposite Films for Application in Electromagnetic Shielding. *Journal of Macromolecular Science, Part B*, pp.1-13.
30. Sayyed, M.I., Es-soufi, H., **More, C.V.** and Hanafy, T.A., 2025. Thorough analysis of bismuth-containing silicate glasses: Evaluation of optical and radiation-shielding properties. *Optical Materials*, 159, p.116554.
31. Nouh, S.A., Alsufyani, S.J., Gweily, N., **More, C.V.** and Barakat, M.M., 2025. Gamma Ray Irradiation Induced Changes in Polycarbonate/Zinc Sulfide-Cerium Oxide Nanocomposite Films. Optical and Color Modifications. *Journal of Macromolecular Science, Part B*, pp.1-16.

32. Sayyed, M.I., Rashad, M., **More, C.V.** and Kumar, A., 2024. Preparation and radiation shielding features of high density, transparent borosilicate glasses with different Bi2O3 contents. *Nuclear Engineering and Technology*, 56(12), pp.5043-5047.

33. Gaikwad, K.B., Gattu, K.P., **More, C.V.**, Ogul, H. and Pawar, P.P., 2024. Gamma-ray shielding features of Co1-xCuxFe2O4 ferrite: A combined experimental, theoretical and simulation investigation. *Radiation Physics and Chemistry*, 224, p.111996.

34. Almuqrin, A.H., Rashad, M., **More, C.V.**, Sayyed, M.I. and Elsafi, M., 2024. An experimental and theoretical study to evaluate Al_2O_3–PbO–B_2O_3–SiO2–BaO radiation shielding properties. *Radiation Physics and Chemistry*, 222, p.111824.

35. Elsafi, M., Sayyed, M.I., Hanafy, T.A., **More, C.V.** and Hedaya, A., 2024. Experimental study of gamma-ray attenuation capability of B2O3-ZnO-Na2O-Fe2O3 glass system. *Scientific Reports*, 14(1), p.19141.

36. Sayyed, M.I., Almuqrin, A.H., **More, C.V.**, Rilwan, U., Rashad, M. and Elsafi, M., 2024. Exploring gamma radiation shielding: the role of BaO in borosilicate glasses. *Silicon*, 16(11), pp.4857-4866.

37. Gaikwad, K.B., Gattu, K.P., **More, C.V.** and Pawar, P.P., 2024. Physical, structural and nuclear radiation shielding behavior of Ni–Cu–Zn Fe2O4 ferrite nanoparticles. *Applied Radiation and Isotopes*, 207, p.111244.

38. Gaikwad, K.B., Gattu, K.P., **More, C.V.**, Sayyed, M.I., Niras, K.R. and Pawar, P.P., 2024. Experimental evaluation of gamma radiation attenuation properties of Ni0. 2MgxZn0. 8-xFe2O4. *Optical Materials*, 148, p.114807.

39. Kilicoglu, O., **More, C.V.**, Kara, U. and Davraz, M., 2023. Investigation of the effect of cement type on nuclear shield performance of heavy concrete. *Radiation Physics and Chemistry*, 209, p.110954.

40. **More, C.V.**, Akman, F., Dilsiz, K., Ogul, H. and Pawar, P.P., (2023). Estimation of neutron and gamma-ray attenuation characteristics of some ferrites: Geant4, FLUKA and WinXCom studies. *Applied Radiation and Isotopes*, 197, p.110803.

41. Girhe, N.B., Botewad, S.N., **More, C.V.**, Kadam, S.B., Pawar, P.P. and Kadam, A.B., (2023). Development of water-based CuO, TiO_2 and ZnO nanofluids and comparative study of thermal conductivity and viscosity. *Pramana*, 97(2), p.68.

42. **More, C. V.**, Botewad, S. N., Akman, F., Agar, O., & Pawar, P. P. (2023). UPR/Titanium dioxide nanocomposite: Preparation, characterization and application in photon/neutron shielding. *Applied Radiation and Isotopes*, *194*, 110688.

43. S. Vignesh, J.T. Winowlin Jappes, S. Nagaveena, R. Krishna Sharma, M. Adam Khan, **Chaitali V. More** (2023). Preparation of novel in-situ layered B4C and PbO reinforced solution casted layered polymer composites (SCLPC) for augmenting the gamma irradiation shielding capability. *Vacuum*, 207, 111583.

44. S. Vignesh, J.T. Winowlin Jappes, S. Nagaveena, R. Krishna Sharma, M. Adam Khan, **Chaitali V. More**, N. Rajini and Temel Varol (2022). Development of lightweight polymer laminates for radiation shielding and electronics applications. *International Journal of Polymer Sciences*.

45. Kilicoglu O, **More CV**, Akman F, Dilsiz K, Oğul H, Kaçal MR, Polat H, Agar O (2022). Micro Pb filled polymer composites: Theoretical, experimental and simulation results for γ-ray shielding performance. *Radiation Physics and Chemistry, 194*, 110039.

46. **More, C. V.**, Alsayed, Z., Badawi, M. S., Thabet, A. A., & Pawar, P. P. (2021). Polymeric composite materials for radiation shielding: a review. *Environmental Chemistry Letters*, 1-34.

47. **More, C. V.**, Alavian, H., & Pawar, P. P. (2020). Evaluation of gamma-ray attenuation characteristics of some thermoplastic polymers: Experimental, WinXCom and MCNPX studies. *Journal of Non-Crystalline Solids*, *546*, 120277.

48. **More, C. V.**, Pawar, P. P., Badawi, M. S., & Thabet, A. A. (2020). Extensive theoretical study of gamma-ray shielding parameters using epoxy resin-metal chloride mixtures. *Nuclear Technology and Radiation Protection*, *35*(2), 138-149.

49. Lokhande, R. M., **More, C. V.**, Surung, B. S., & Pawar, P. P. (2017). Determination of attenuation parameters and energy absorption build-up factor of amine group materials. *Radiation Physics and Chemistry*, 141, 292-299.

50. **More, C. V.**, Bhosale, R. R., & Pawar, P. P. (2017). Detection of new polymer materials as gamma-ray-shielding materials. *Radiation Effects and Defects in Solids*, 172(5-6), 469-484.

51. Bhosale, R. R., **More, C. V.**, Gaikwad, D. K., Pawar, P. P., & Rode, M. N. (2017). Radiation shielding and gamma ray attenuation properties of some polymers. *Nuclear Technology and Radiation Protection*, 32(3), 288-293.

52. **More, C. V.**, Lokhande, R. M., & Pawar, P. P. (2016). Effective atomic number and electron density of amino acids within the energy range of 0.122–1.330 MeV. *Radiation Physics and Chemistry*, 125, 14-20.

Conference/Workshop Attended:

1. Completed Course Work on Nuclear Reactions with "A" grade held at Inter University Accelerator Centre (IUAC), New Delhi (5th Oct.-23rd Oct., 2015).
2. International Conference on Condensed Matter and Applied Physics organized by Dept. of Physics, Govt. Engineering College, Bikaner (30-31 Oct., 2015).
3. One day author workshop on "Scientific Writing & Publishing Scholarly Articles" organized by Knowledge Resource Centre, Dr. B. A. M. University Aurangabad And Springer (4th Nov., 2015).
4. International Conference on functional materials and microwaves (ICFMM-2015) at Dept. of Physics, Dr. B. A. M. University, Aurangabd. (29-31 Dec 2015).
5. International conference on Recent Development in Engineering, Science, Management and Humanities at Mahatma Basweshwar Mahavidyalaya, Latur. (13 March, 2016).
6. "Training Program on Awareness of Scopus & Indian Citation Index" organized by Knowledge Resource Centre, Dr. B. A. M. University Aurangabad (22nd Dec., 2016).
7. Two days National Seminar on "Quality Sustenance and Quality Enhancement by IQAC at Institution Level" organized by MGM Dr. G. Y. Pathrikar College of Computer Science and Information Technology, Aurangabad (31st Jan. to 1st Feb., 2017).
8. 13th DAE-BRNS Nuclear and Radiochemistry Symposium (NUCAR-2017) organized by BARC, Trombay, Mumbai and Indian Association of Nuclear Chemist and Allied Scientists (IANCAS), KIIT University Bhubaneshwar, Odisha, India (6th-10th Feb., 2017).
9. National Seminar on "Materials Science, X-ray and Gamma Ray Spectroscopies" organized by Dept. of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) (29-30th March, 2017).

10. One day Author Workshop on "Scientific Writing & Scholarly Articles" jointly organized by Knowledge Resource Centre, Dr. B. A. M. University Aurangabad and Springer Nature (7th Nov., 2017).

Key proficiencies:

- **Computer Skills:** Competent with most Microsoft Office programs.
- **Software for research analysis:** Origin 8, Fullprof, Match, Photoshop CS4.
- **Language Skills:** Marathi, Hindi, English, and German (Basic level).
- **Handling Sophisticated Instruments:** NaI (Tl) Scintillation detector, Ultraviolet-Visible (UV-Vis) spectrophotometer Perkin Elmer Lamda-25, X-ray diffraction (XRD) Bruker AXS, Germany (D8 Advanced)

Declaration:

I declare that the information above is true to the best of my knowledge and belief.

Place: Chhatrapati Sambhajinagar
Date: 29/10/2025 **Dr. Chaitali Vilasrao More**

References:

1. Prof. Pravina S. Ugile-Pawar
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3. Dr. N. L. Tarwal
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