

CURRICULUM VITAE

Dr. Chithra Mundath

Research Fellow,
Department of Physics,
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Research Interests

Condensed Matter Physics, Magnetic Materials, Material Science, Magnetic Nanostructures, Nanostructured Materials, Nanoparticle synthesis.

Education

Ph. D. Physics

11/2012 – 09/2018

Central University of Kerala, India

Thesis Title - Synthesis and magnetic properties of some spinel nanoparticles

M. Phil. Physics

09/2011 - 11/2012

Central University of Kerala, India

Specialization - Magnetic Materials

CGPA - 8.33

Master of Science (Physics)

08/2009 - 07/2011

Mahatma Gandhi University, Kerala, India

Specialization - Material Science

CGPA - 8.31

Bachelor of Science (Physics)

08/2006 - 03/2009

Kannur University, Kerala, India

Percentage - 82.4

Teaching Experience

- **August 2023 – Present date** : Guest Lecturer at Department of Physics, Nehru arts and science College, Padnekad. Kasargod Kerala
- **June 2023 – August 2023** : Guest Lecturer at Department of Physics, E. K. N. M. Government College Elerithattu, Kasaragod, Kerala, INDIA
- **July 2022 – March 2023** : Guest Lecturer at Department of Physics, E. K. N. M. Government College Elerithattu, Kasaragod, Kerala, INDIA
- **Oct. 2021 – March 2022** : Guest lecturer at Department of Physics, E. K. N. M. Government College Elerithattu, Kasaragod, Kerala.

Knowledge on Synthesis and Characterization Techniques

- Expert in synthesis methods like sol-gel, co-precipitation, hydrothermal and spin coating.
- Expert in handling the instruments like Rigaku Miniflex X-ray diffractometer, Vibrating Sample magnetometer of Quantum Design Versalab System.
- Experience in analyzing data from X-ray diffraction, Raman spectroscopy, Fourier transformed infrared spectroscopy, scanning electron microscopy, transmission electron microscopy, vibrating sample magnetometer instruments.

Achievements During Ph. D. Course

- Received “Best Poster Award” in the International Conference on Magnetic Materials and Applications (ICMAGMA 2017) held at Hyderabad, India, Feb 1-3, 2017.
- Received “Best Poster Award” in the National Symposium for Materials Research Scholars (MR 13) held at IIT Bombay, India, May 8-10, 2013.

Publications

1. **M. Chithra**, C. N. Anumol, V. Argish, B. N. Sahu, Subasa C.Sahoo, Magnetic properties of co-ferrite nanoparticles prepared by co-precipitation method, *Journal of Materials Science: Materials in Electronics* 34:806 (2023), <https://doi.org/10.1007/s10854-023-10241-z>
2. C. N. Anumol, **M. Chithra**, V. Argish, B. N. Sahu, Subasa C.Sahoo Magnetic behavior of exchange spring CoFe₂O₄/ZnFe₂O₄ nanocomposites, *Journal of Magnetism and Magnetic Materials* 564(1),170100 (2022) <https://doi.org/10.1016/j.jmmm.2022.170100>
3. S. J. Pawar, S. M. Patil, **M. Chithra**, Subasa C. Sahoo and P.B. Patil, *Cobalt Ferrite Nanoparticles for Supercapacitor Application*, *AIP Conference Proceedings* 2265, 030162 (2020), <https://doi.org/10.1063/5.0017184>
4. **M. Chithra**, C. N. Anumol, Baidyanath Sahu, Subasa C. Sahoo, *Magnetic properties of Zn-ferrite nanoparticles prepared by sol-gel and coprecipitation methods*, *Material Research Express*, 6, 125059 (2019), <https://doi.org/10.1088/2053-1591/ab589b>
5. C. N. Anumol, **M. Chithra**, S. Rout, S. C. Sahoo, *Effect of magnesium substitution on structural and magnetic properties of nickel ferrite nanoparticles*, *Journal of Superconductivity and Novel Magnetism* (2019). <https://doi.org/10.1007/s10948-019-05192-8> Publications are also listed at -

<https://scholar.google.co.in/citations?user=OxidSqIAAAAJ&hl=en>

https://www.researchgate.net/profile/M_Chithra

Personal Details

Date of Birth : May 5, 1989

Nationality : Indian

Marital Status : Married

Home Address :

Kollampara P. O., Nileswaram

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