

AUGUSTIN. M.

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**EDUCATIONAL PROFILE:**

COURSE	INSTITUTION	BOARD/ AFFILIATED TO	YEAR OF PASSING	PERCENTAGE
SSLC	R.C.Susai Higher Secondary School, Kazhugumalai.	State Board	2002	87.80
HSC	R.C.Susai Higher Secondary School, Kazhugumalai.	State Board	2004	85.08
B.Sc. Physics	St. Joseph's College, (Autonomous) Trichy-2	Bharathidasan university	2007	72.17
M.Sc. Physics	St. Joseph's College, (Autonomous) Trichy-2	Bharathidasan university	2009	74.69
M.Phil. Physics	St. Joseph's College, (Autonomous) Trichy-2	Bharathidasan university	2010	87.25
PhD Physics	Manonmaniam Sundaranar University	M. S. University	2017	-

PhD TITLE:

Synthesis and Characterization of Metal (Mg, Mn, Co, Ni, Zn) Ferrite Magnetic Nanoparticles

FIELD OF RESEARCH:

- Nanotechnology and its applications
- Magnetic nature of nanoparticles and its spins

TEACHING EXPERIENCE:

- Worked as an Assistant Professor in Physics at St. Xavier's college, Palayamkottai from 27/06/11 to 30/05/ 22 (11 years). Handling both UG & PG.
- Working as a Assistant Professor in Physics at St. Joseph's college, Trichy from 18/06/22 to till date. Handling both UG & PG.

PUBLICATIONS/PROCEEDINGS/PRESENTATIONS:

- **Best Paper award** for the paper "Synthesis and characterization of cobalt ferrite nanoparticles coated with PEG" published in ANBMD (ISSN 2559- 1118)
- M. Augustin, T. Balu, Synthesis and characterization of metal (Mn,Zn) ferrite magnetic nanoparticles, *Materials Today: Procee 2* (2015) 923 – 927.
- M. Augustin, T. R. Rajasekaran, T. Balu, Estimation of lattice stress and strain in Manganese ferrite nanoparticles by Williamson-Hall method, National conference on Advances in materials science, ISBN 978-93-81402-16-0, Sep 2014.
- M. Augustin, T. Balu, Synthesis and characterization of metal (Mn,Zn) ferrite magnetic nanoparticles, 5th International Conference on Perspectives in Vibrational Spectroscopy, July 2014.
- M. Augustin, T. Balu, Estimation of lattice stress and strain in Zinc ferrite nanoparticles by Williamson-Hall and size-strain plot methods, National Seminar on Nanomaterials and its applications, Oct 2015.
- M. Augustin, T. Balu, Molar spin-susceptibility measurement of Manganese ferrite nanoparticles using Electron Spin Resonance study, *Materials Letters* 176 (2016) 71–73
- M. Augustin, T. Balu, Estimation of lattice stress and strain in zinc ferrite nanoparticles by williamson-hall and size-strain plot methods, *Indian J. Res. Found.*, ISSN 2454-6577 (2015) 4, 13-17.
- M. Augustin, T. Balu, Molar spin-susceptibility measurement of Magnesium ferrite nanoparticles using Electron Spin Resonance study, *Scientia Acta Xaveriana* (accepted for publication and article in press)
- M. Augustin, T. Balu, Estimation of lattice stress and strain in cobalt ferrite nanoparticles by williamson-hall and size-strain plot methods, *Scientia Acta Xaveriana* (accepted for publication and article in press)

- M. Augustin, T. Balu, Estimation of lattice stress and strain in zinc and manganese ferrite nanoparticles by williamson-hall and size-strain plot methods, Int. J. of Nanoscience, World Scientific (accepted for publication and article in press)
- Attended a “Refresher course on Physics- RCP 2018” held on 29th & 30th January 2018, organized by Department of Physics, M. S university, Tirunelveli.
- Participated in “Hands on training Workshop on Molecular spectroscopy” on 11th January 2018, organised by Division of Chemistry/ Department of science and Humanities, Karunya University, Coimbatore.
- Presented a Paper titled “ESR analysis of zinc ferrite magnetic Nano particle” at International conference on current research and advancements in materials science and spectroscopy organized by department of Physics, St. Joseph's college, Trichy on 10-02-2023.
- Participated in International conference on crystal growth and spectroscopy organized by Department of Physics, St. Joseph`s college, Trichy from 29-08-2022 to 31-08-2022
- Attended a Workshop on synthesis and characterization of Rare Earth Doped Glasses, organized by Department of Physics, St. Joseph`s college, Trichy on 14-09-2022
- Attended a webinar on Recent trends in water splitting, organized by Department of Physics, St. Joseph`s college, Trichy on 11-03-2022
- Attended a webinar on Recent trends in advanced polymer materials, organized by Department of Physics, St. Joseph`s college, Trichy on 19-12-2022

- Attended a webinar on Advancements in graphene based 2D materials, organized by Department of Physics, St. Joseph`s college, Trichy on 30-01-2023
- Participated in a seminar on Astronomy from ground and space, organized by Department of Physics, St. Joseph`s college, Trichy on 29-08-2023
- Participated in a seminar on Advances on materials for renewable energy storage technology and sustainability, organized by Department of Physics, St. Joseph`s college, Trichy on 08-09-2023
- Participated in a seminar on Electronic monitoring of offenders, organized by Department of Physics, St. Joseph`s college, Trichy on 25-10-2023
- Participated in a workshop on ANU Awareness programme-2023 in the serve of nation, organized by Department of Physics, St. Joseph`s college, Trichy, IGCAR, Kalpakkam, Academy of sciences, Chennai from 30-11-2023 to 01-12-2023
- Participated International Conference on Advanced materials organised by CSIR Govt of India and Department of Physics, St. Joseph`s College, Trichy from 08-12-2023 to 09-12-2023