

RESUME



MERCYRANI BABUDURAI

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Doctorate program

Department of Nanoscience and Nanotechnology

CINVESTAV.

OBJECTIVE:

To work as a research scholar and exhibiting my skills with utmost care and dedication.

EDUCATIONAL QUALIFICATION:

| COURSE | INSTITUTION | YEAR OF PASSING | PERCENTAGE OBTAINED | CLASS |
|----------------------|---|------------------------|----------------------------|------------------------------|
| M.Sc.PHYSICS | KONGUNADU ARTS AND SCIENCE COLLEGE, Bharathiar university | 2016 | 74 % | First class |
| B.Sc. PHYSICS | AVINASHILINGAM UNIVERSITY FOR WOMEN | 2014 | 77 % | First class with distinction |
| HSC | SWAMI SHIVANANDA HR.SEC.SCHOOL | 2011 | 80 % | First class with distinction |
| SSLC | SRI.K.RANGASWAMY NAIDU HR.SEC.SCHOOL | 2009 | 93 % | First class with distinction |

PROJECT:**M.Sc. PROJECT:**

Dissertation Title: “GREEN SYNTHESIS AND CHARACTERIZATION OF ZINC OXIDE (ZnO) NANOPARTICLES USING CAMELLIA SYNENSIS (TEA EXTRACT)”

Guide: Dr. B. Chandar Shekar

Institution: Kongunadu Arts and Science College, Coimbatore.

Date: January to March, 2016.

PROJECT DESCRIPTION:

ZnO nanoparticles are synthesised with the help of tea extract by Green Synthesis Method. A cost-effective, low toxic and eco-friendly method was attempted. The characterisation techniques such as XRD, UV, FESEM and EDAX were taken to study the crystallographic direction, bandgap, surface morphology and elemental composition.

CONFERENCES ATTENDED:

- **“International Conference on Nanomaterials for Frontier Application” HELD AT COIMBATORE INSTITUTE OF TECHNOLOGY (CIT), COIMBATORE.**

- “Advanced Instrumental Methods for Engineering Materials” HELD AT BANNARI AMMAN INSTITUTE OF TECHNOLOGY, SATHYAMANGALAM, ERODE.
- “Application of Laser Technology in Science, Research and Innovation Landscape” HELD AT PSGR KRISHNAMMAL COLLEGE, COIMBATORE.
- “National Seminar on Physics of Modern Materials” HELD AT P.K.R. ARTS COLLEGE FOR WOMEN, GOBICHETTIPALAYAM.

COMPUTER SKILLS:

DIPLOMA IN COMPUTER APPLICATION (DCA)

EXTRA CURRICULAR SKILLS:

- NCC CADET FOR 2 YEARS(2006-2008)
- NSS VOLUNTEER FOR 3 YEARS(2011-2014)

HOBBIES:

Reading Books, Embroidery, Gardening, Cooking, Painting.

ACHIEVEMENTS:

- I have won several prizes in Tamil and English Recitation and Essay writing
- I have won several prizes in Tamil and English Elocution at School level and District level.

POSTER PRESENTATION:

Presented a poster entitled “**ORGANIC COMPOUND DEGRADATION IN AQUEOUS PHASE BY THE USE OF $\text{TiO}_2/\text{Fe}_3\text{O}_4$ NANOCOMPOSITE HETEROSTRUCTURE**” XXVI International Materials Research congress (IMRC 2017), August 20-25, 2017, Cancun, Mexico.

PUBLICATIONS:

Submitted an manuscript entitled “**PHOTOCATALYTIC DEGRADATION OF ORANGE G USING $\text{TiO}_2/\text{Fe}_3\text{O}_4$ NANOCOMPOSITES**” in Journal of Materials Science: Materials in Electronics on Nov 2017 and it is accepted.

DECLARATION

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

Sincerely,

MERCYRANI BABUDURAI.