



P.S.R. ENGINEERING COLLEGE

Autonomous Institution Affiliated to Anna University, Chennai
Approved by AICTE, New Delhi & Accredited by National Board of Accreditation (NBA)
Accredited by NAAC listed under 12 (B) of the UGC Act, 1956.
An ISO 9001 : 2015 Certified Institution



Dr. B. GAYATHRI MANJU

ASSISTANT PROFESSOR/PHYSICS

P.S.R. ENGINEERING COLLEGE

(An Autonomous Institution – Affiliated to Anna University)

Sevalpatti – 626 140

Sivakasi (Via), Virudhunagar District, Tamilnadu, India

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Date of Joining at P.S.R. Engineering College: 03/11/2022

EDUCATION:

✧ **Ph. D : December 2020**

Department of Physics,

Anna University,,

Chennai-600025, Tamilnadu, India

Research center : Mepco Schlenk Engineering College

✧ **M. Sc: June 2015**

Department of Physics,

Ayya Nadar Janaki Ammal College,

Sivakasi, Tamilnadu, India

✧ **B. Sc. - June- 2013**

Department of Physics,

Ayya Nadar Janaki Ammal College,

Sivakasi, Tamilnadu, India.

PROFESSIONAL:

➤ **ASSISTANT PROFESSOR (NOVEMBER 2022 – till date)**

Department of Physics

P.S.R. Engineering College, Sivakasi– 626 140
Tamilnadu, India

RESEARCH AREAS:

Metal oxide, Green synthesis of ferrite nanoparticles

SPONSORED PROJECTS UNDERTAKEN:

Nil

RESEARCH & TEACHING EXPERIENCES:

- * Teaching Experience : 4 Months

AWARDS AND RECOGNITIONS:

- * Indian Patent Granted “Green synthesis of nanocrystalline $\text{Cu}_{0.5}\text{Ni}_{0.5}\text{Fe}_2\text{O}_4$ and its antibacterial activity” patent no 399000 , Application No: 202041027516 A dated on 29/06/2020.
- * Secured the **second place in M.Sc Physics** with the student strength of 21 for the academic year 2013- 2015 in Ayya Nadar Janaki Ammal College Sivakasi
- * Received “**Indira Gandhi Single Girl Child PG Scholarship**” for the year of 2013-2015.
- * During Full time Ph.D work, **Received Management stipend at Mepco Schlenk Engineering College** from 01-08-2017 to 28-02-2019.
- * Proposal was selected for the interview of CSIR-SRF topic on **Ternary nickel- copper mixed ferrite/reduced graphene oxide/polyaniline nanostructure with enhanced electrochemical capacitance performance dated on 25.01.2019**

CURRENT ACADEMIC AND OTHER ACTIVITIES:

- * Class Advisor

SCIENTIFIC PUBLICATIONS & SCIENTIFIC PRESENTATIONS:

- * B.Gayathri Manju B & Raji, P 2020, “GREEN SYNTHESIS, CHARACTERIZATION, ANTIBACTERIAL ACTIVITY OF LIME JUICE MEDIATED COPPER-NICKEL MIXED FERRITE NANOPARTICLES”, **Applied Physics A- Materials Science & Processing**, doi: 10.1007/s00339-020-3313-2, **Impact Factor : 1.78**
- * Gayathri Manju B & Raji, P 2019, GREEN SYNTHESIS OF NICKEL–COPPER MIXED

FERRITE NANOPARTICLES: STRUCTURAL, OPTICAL, MAGNETIC, ELECTROCHEMICAL AND ANTIBACTERIAL STUDIES, **Journal of Electronic Materials**, vol. 48, no. 12, pp. 7710-7720, doi: 10.1007/s11664-019-07603-x, **Impact Factor : 1.67.**

- * Gayathri Manju B & Raji 2019, „BIOLOGICAL SYNTHESIS, CHARACTERIZATION, AND ANTIBACTERIAL ACTIVITY OF NICKEL-DOPED COPPER FERRITE NANOPARTICLES, **Applied Physics A-Materials Science & Processing**, vol. 125, no. 5, pp. 313, doi: 10.1007/s00339-019-2619-4, **Impact Factor : 1.78.**
- * Gayathri Manju B & Raji 2019, EQUILIBRIUM AND KINETIC STUDIES ON METHYLENE BLUE ADSORPTION BY SIMPLE POLYOL ASSISTED WET HYDROXYL ROUTE OF NIFE₂O₄ NANOPARTICLES, **Journal of Environmental Health Science and Engineering**, doi: 10.1007/s40201-019-00368-9, **Impact Factor : 2.77.**
- * Gayathri Manju B & Raji 2018, SYNTHESIS AND MAGNETIC PROPERTIES OF NANO-SIZED CU_{0.5}NI_{0.5}FE₂O₄ VIA CITRATE AND ALOE VERA A COMPARATIVE STUDY“, **Ceramics International**, vol.44, no. 7, pp. 7329-7333, doi: 10.1016/j.ceramint.2018.01.201, **Impact Factor : 3.45.**

PAPERS PRESENTED N IN CONFERENCE:

- * Presented a paper in International Conference on “ADVANCED MATERIALS & THEIR APPLICATIONS” held on 27th December 2018, organized by V.O.CHIDAMBARAM COLLEGE, Tuticorin
- * Presented a paper in 4th International Conference on “NANOSCIENCE AND NANOTECHNOLOGY” (ICONN 2015)” held on 9- 11th August 2017 organized by SRM University, Chennai
- * Presented a paper International conference on “FUNCTIONAL MATERIALS (ICFM-2016)” held on 7-10 September 2016 organized by PSN college of Engineering and Technolgy, Thirunelveli

WORK SHOP/CONFERENCES/FDP ATTENDED:

- * Participated in Seminar on “MAGNETIC NANOPARTICLES IN FUTURE APPLICATIONS” in Mepco Schlenk Engineering College Sivakasi on 29.03.2019
- * Participated in Seminar on “NANOTECHNOLOGY AND BIOSENSORS” in Kalasalingam University, Krishankovil on 07.07.2017

- * Participated in Seminar on “RESEARCH METHODOLOGY” in V.H.N.S.N college, Viudhunagar on 23.07.2016
- * Participated in Seminar on “IMPEDANCE SPECTROSCOPY AND ITS APPLICATIONS” in The standard Fireworks Rajaratnam College for Women Sivakasi on 2.3.2016
- * Participated in Seminar on “CURRENT TRENDS OF RESEARCH IN NANOSCIENCE AND NANOTECHNOLOGY” in Ayya Nadar Janaki Ammal College Sivakasi on 19.1.2015
- * Participated in Seminar on “MATERIALS CHARACTERIZATION TECHNIQUES” in Kalasalingam University, Krishnankovil on 9.1.2015
- * Participated on One Day Seminar on “OPTO ELECTRONICS” The Standard Fireworks Rajaratnam college for women, Sivakasi on 6.9.2014.
- * Participated FDP on “ENGLISH VOCABULARY AND PRONUNCIATION” in On Mepco Schlenk Engineering College Sivakasi in 5th - 12th December 2016.
- * Participated FDP on “CURRENT SCENARIO IN ADVANCE MATERIAL RESEARCH AND NANOTECHNOLOGY(Online)”14 th-18th November 2022 Rajapalayam Rajus’ College, Rajapalayam.
- * Participated Workshop on "MAGNETIC NANOPARTICLES FOR FUTURE APPLICATIONS” in Mepco Schlenk Engineering College Sivakasi on 21-22 January 2020
- * Participated Workshop on "EMERGING TRENDS IN ENERGY HARVESTING AND ENERGY STORAGE TECHNIQUES” in Mepco Schlenk Engineering College Sivakasi on 3-4 January 2020
- * Participated Workshop on “FRONTIER AREAS IN MATERIALS CHEMISTRY” in Mepco Schlenk Engineering College Sivakasi on 19-20 January 2018
- * Participated Workshop on “FORMULATION AND PREPARATION OF RESEARCH PROJECT PROPOSALS” in Mepco Schlenk Engineering College Sivakasi on 18th - 19th November 2016

Proposals Submitted:

- * Project titled “ COPPER NICKEL ZINC OXIDE/ POLYANILINE /REDUCE GRAPHENE OXIDE (CNZO /PANI/RGO) TERNARY NANOCOMPOSITE FOR HIGH PERFORMANCE SUPERCAPACITOR APPLICATION” **DR. RADHAKRISHNA POST DOCTORAL RESEARCH FELLOWSHIP dated on 10.2.22.**

PERSONAL PROFILE:

✧ Name	: Dr. B.Gayathri Manju
✧ Father's Name	: Mr. M. Balaguru
✧ Date of Birth	: 13-06-1993
✧ Nationality	: Indian
✧ Marital Status	: Married
✧ Husband Name	: M.Vinoth Kumar
✧ Permanent Address	: 2/2276H Grahathaiammal Nagar Sivakasi.
✧ Phone Number	: 8778176055
✧ E-mail	: gayathrimanju@psr.edu.in
