

Faculty Profile

Name. : Dr G MAGESH
Designation : ASSISTANT PROFESSOR
Contact. No & Email : 9994274231
Date of Birth. : 11/12/1987
Date of Joining : 01/04/2023
Date of Retirement : 31/12/2047
Google Scholar ID : -ovb6oEAAAAJ
Orchid ID: : 0000-0003-1378-904X
MHRD Vidwan ID : 179273
If any other academic ID: -



1. Educational Qualification

| Degree | Mode of Study | Subject(s) | Month & Year of Passing | Institution/ University |
|---------|---------------|------------|-------------------------|-------------------------|
| Ph.D. | Full-time | Physics | JUNE 2019 | BHARATHIAR UNIVERSITY |
| M.Phil. | Full-time | Physics | JANUARY 2015 | BHARATHIAR UNIVERSITY |
| B. Ed | Full-time | Physics | MAY 2011 | TNTEU |
| M.Sc. | Full-time | Physics | APRIL 2010 | MS UNIVERSITY |
| B.Sc. | Full-time | Physics | APRIL 2008 | MS UNIVERSITY |

2. Teaching Eligibility Test (UGC/CSIR-NET/SET/GATE/others):

| SI. No | Name of the TEST | Roll. No | Month & Year of Passing | Testing Agency |
|--------|------------------|----------|-------------------------|----------------|
| - | - | - | --- | ----- |

3. Specialization:

Teaching: PHYSICS

Research: BIONANOTECHNOLOGY

4. Professional Experience:

| Designation | Name of the College/University | Duration(s) | Total Exp Year & Month |
|----------------|--|------------------------|------------------------|
| ASST PROFESSOR | PSGR KRISHNAMMAL COLLEGE FOR WOMEN, COIMBATORE | JUNE 2019 – MARCH 2023 | 3 YEARS & 9 MONTHS |
| ASST PROFESSOR | THIRUVALLUVAR COLLEGE, PAPANASAM | APRIL 1 – TILL DATE | - |

5. Recent Publications (Maximum five): Best cited

| SI.No. | Details of Article | UGC-CARE listed | Peer-reviewed Or Double Blinded | Impact factor & H-Index |
|--------|--|-----------------|---------------------------------|-------------------------|
| 1 | G Magesh et al., Synthesis, analysis and characterization of camellia sinensis mediated synthesis of NiO nanoparticles for ethanol gas sensor applications, <i>Sensors and Actuators B: Chemical</i> Volume 387, 15 July 2023, 133742, 0925-4005. | UGC CARE | PEER REVIEWED | 8.4 |
| 2 | T.Indumathi, C. Teivarasu, E. R. Kumar, G. Magesh , 2021, "Effects of Nd doping on structural, optical, morphological and surface chemical state analysis of ZnO nanoparticles for antimicrobial and anticancer activities", <i>Surfaces and Interfaces</i> . [Elsevier publications] | UGC CARE | PEER REVIEWED | 6.2 |
| 3 | Sekhar, E.C., Sreenivasulu, M., Purushotham, Magesh G. "Study of Some Physicochemical Properties of Microwave-Sintered Al ³⁺ -Doped Ni-Zn Ferrites for Gas Sensor Applications", <i>J Supercond Nov Magn</i> (2021). https://doi.org/10.1007/s10948-021-05906-x . [Springer publications] | UGC CARE | PEER REVIEWED | 1.8 |
| 4 | Nithya, N., Kumar, E.R., Magesh, G. et al. "Evaluation of gas sensor behaviour of Sm ³⁺ doped TiO ₂ nanoparticles", <i>J Mater Sci: Material Electron</i> 32, 16854–16865,(2021). https://doi.org/10.1007/s10854-021-06246-1 . [Springer publications] | UGC CARE | PEER REVIEWED | 2.8 |
| 5 | B. Ranjithkumar, H.B. Ramalingam, E. Ranjith Kumar, Ch. Srinivas, G. Magesh , C. Sharmila Rahale, Nashwa M. El-Metwaly, B. Chandar Shekar, 2021, "Natural fuels (Honey and Cow urine) assisted combustion synthesis of zinc oxide nanoparticles for antimicrobial activities", <i>Ceramics International</i> , ISSN 0272-8842, https://doi.org/10.1016/j.ceramint.2021.02.026 . [Elsevier publications]. | UGC CARE | PEER REVIEWED | 5.2 |

6. Books/Chapter(s)/Edited Published (mention only pertinent to the area of specialization)

| SI. No | Details of Books/ Chapter(s) | ISBN | Name of the Publication and Address |
|--------|--|---------------|-------------------------------------|
| 1 | G Magesh, Biopolymer/ZnO nanoparticles, 2022 | 9786206151234 | Lambert Academic Publishing |
| 2 | G Magesh, Antibacterial activity and Cytotoxicity of ZnO nanoparticles, 2023 | 9786204747811 | Lambert Academic Publishing |

7. Paper presented/attended Conferences /Seminars/Workshops/ FDP

| SI. No | Details of the Conferences /seminars/workshops | Presented/ Attended (Mention title of the paper; if presented) |
|--------|--|---|
| 1 | National Conference “BIOME” -23 Bioscience in Modern Era” organised by Department of Physics, Sri Krishna Arts and Science College” Coimbatore, on 10 th March 2023. | “Influence of Agar blend concentration on Agar encapsulated ZnO nanoparticles and their antibacterial activity”. |
| 2 | International conference on Materials – properties, measurements and applications organised by Department of Physics, Fatima Mata National College, Kerala, India during 9 – 13 May – 2022. | “Effect of Silver Concentration on PVP/Ag Nanocomposites and its Antibacterial Activity” |
| 3 | International conference on Advanced Materials for Sustainable Energy and environment (ICAMSEE - 2022) organised by Department of Physics, PSGR Krishnammal College for Women, 16 – 18 February 2022. | “Influence of Zn concentration on Zinc oxide nanoparticles and their Anti-corrosion property” |
| 4 | International Conference on Current Trends in Material Science and Technology organized by Department of Science and Humanities, Nehru Institute of Technology Coimbatore, on 26th July 2021 | “Structural and Morphological Studies of Ti doped ZnO nanoparticles and their Antimicrobial Activity” |
| 5 | Presented and won Best paper presentation award in International Conference on Current Trends in Material Science and Technology organized by Department of Science and Humanities, Nehru Institute of Technology Coimbatore, on 26th July 2021. | “Influence of Chitosan/Agar blend concentration on Chitosan/Agar encapsulated ZnO nanoparticles and their antibacterial activity”. |
| 6 | International virtual Conference on Recent Trends in Material Science, Bannari amman Institute of Technology, Sathyamagalam, during 20 -21 Dec, 2021. | “Effect Of Chitosan/Agar Blend Concentration on Chitosan/Agar Encapsulated Zno Nanoparticles And Their Antibacterial Activity” |
| 7 | National conference in Science and Technology, Sri Venkateshwara College of Engineering and Technology, Andrapradesh, during 8 – 9, July 2021. | “Influence of Chitosan/Agar blend concentration on Chitosan/Agar encapsulated ZnO nanoparticles and their anticancer activity” |
| 8 | National Virtual Conference on “Recent Trends in Energy Materials (RTEM – 2021)” organized by the Department of Physics, Arumugam Pillai Seethai Ammal College, during 14-15, July 2021. | “Effect of pH on Optical, Structural and morphological properties of ZnO Nanoparticles and their biological applications”. |
| 9 | International Web Conference on “Material Science and Nanotechnology (NANOMAT-2020)”, Vinayak Vidnyan Mahavidyalaya, Amaravati-444708, Maharastra, on June 20th - 21th, 2020. | “Synthesis and Characterization of Cerium doped TiO ₂ nanoparticles for Gas sensing activity” |
| 10 | National conference on "Emerging Trends in Physical Sciences NCETPS-2020", RAYAT SHIKSHAN SANSTHA'S Arts, Science and Commerce College Ramanandnagar (Burli) on 22nd July 2020. | "Influence of Cerium on Structural, Morphological and optical Properties of TiO ₂ nanoparticles for photocatalytic activity" |
| 11 | Presented and won the first prize National e-Conference on "Emerging Trends in Physical Sciences NCETPS-2020" Organized by, Rayat Shikshan Sanstha's ASC College Ramanandnagar (Burli), Maharashtra, India and Jointly in Collaboration with Internal Quality Assurance cell, on 22nd July, 2020. | “Influence of Silver Concentration on PVP/Ag Nanocomposites and its antibacterial activity” |

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| 12 | National Web Conference on “Synthesis and Characterization of Novel Materials”, organised by PG & Research Department of Physics, Muthurangam Government Arts College, Vellore, 6 July 2020. | “Antibacterial activity of Mg doped TiO ₂ nanoparticles” |
| 13 | National Conference on Transition Metal based Sodium Ion Batteries for ultrafast energy storage system, Dr. NGP Institute of Technology, Coimbatore. [2019]. | “Synthesis and Characterization of Transition Metal doped Ceria-Zirconia Alumina Mixed Oxides” |
| 14 | National Conference on Novel materials Synthesis and Characterization Technique for Future World, Sri Paramakalyani college, Alwarkurichi. [2019]. | “Role of pH in ZnO nanoparticle” |
| 15 | National Conference on Emerging Materials for Sustainable Future, PSG College of Technology, Coimbatore. [2018]. | “Synthesis and Characterization of pure ZnO and Chitosan/ZnO nanocomposites” |
| 16 | Poster presentation , National Conference on Advanced Functional Materials, Pachaiyappa’s College, Chennai. [2015]. | “Synthesis and Characterization of PVP encapsulated Silver nanoparticles” |
| 17 | Poster presentation , National Conference on Recent Trends in Physics of Materials, Bharathiar University, Coimbatore. [2014]. | “Structural and Optical properties of Co doped CdS nanoparticles” |
| 18 | Paper presentation , National Seminar on Transformation of Education through Technology [2011]. | “Implementation of Learning Management System in an Educational Institution” |

8. Academic Responsibilities/ Professional Membership

IQAC MEMBER

9. Academic Awards/ Honours

Completed Advanced level Innovation Ambassador Training conducted by MoE's Innovation Cell & AICTE, New Delhi. & ARIIA.

10. Research Projects

| SI. No | Details of the Project(s) Minor/ Major | Funding Agency | Amount |
|--------|--|----------------|---------------|
| 1 | Funded research on “Synthesis and Characterization of metals doped TiO ₂ nanoparticles for inverted organic solar cells. Major Project. | GRG Trust | Rs. 2.7 lakhs |

11. Details of Ph.D. guideship: Nil

12. Residential Address with Mobile. No: 99 A2, PAPANASAM MAIN ROAD,

PAPANASAM, DANA – 627425.

MOBILE NO: 9994274231.

13. Reference:

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| <p>Dr A P ARUN, ASST PROFESSOR DEPT OF MECHANICAL ENGINEERING KUMARAGURU COLLEGE OF TECHNOLOGY COIMBATORE - 9994701386</p> | <p>Dr C SHARMILA ASST PROFESSOR DEPT OF PHYSICS PSGRKCW FOR WOMEN COIMBATORE.</p> |
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Signature