



Dr. Martha Ramesh

Assistant Professor



Education Qualifications: Doctor of Philosophy
Specialization: Physics

ADDRESS:

- A – Block -Room No: 002

JNTUH ID:

2911-200220-151810

EMAIL:

mramesh_phy@mgit.ac.in

DATE OF JOINING:

06-03-2024

EXPERIENCE - 13 Years

- Teaching - 5
- Research - 8
- Industry - 0
- Others -

SUMMARY:

- Publications - 10
- Conferences - 1
- Patents - 0
- Books - 1
- Honors/Awards - 0

EVENTS:

- Organized - 1
- Attended - 3

LET'S MEET ON SOCIAL:

- <https://scholar.google.com/citations?user=4e31hiwAAAAJ&hl=en>
- <https://systems.enpress-publisher.com/si.php/index/detail?id=291&jid=25>
- <https://systems.enpress-publisher.com/si.php/index/detail?id=274&jid=25>

Honors/Awards Received:

1. Co-Editor for the special issue of "Nanomaterial synthesis, characterization, and application" in the journal of "Characterization and Application of Nanomaterials" (ISSN: 2578-1995)
2. Section-Editor for the special issue of "Nanotechnology and environmental protection" in the journal of "Characterization and Application of Nanomaterials" (ISSN: 2578-1995)

Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Engineering Physics, Applied Physics
- **PG:** Solid state physics, Electronics

Publications:

1. Martha Ramesh, H.S. Nagaraja, Martha Purnachander Rao, Sambandam Anandan, N.M. Huang, Fabrication, characterization and catalytic activity of α -MnO₂ nanowires for dye degradation of reactive black 5, Materials Letters 172 (2016) 85-89.
2. M. Ramesh, and H.S. Nagaraja, Effect of current density on morphological, structural and optical properties of porous silicon, Materials Today Chemistry 2017; 3:1014.
3. Martha ramesh, Martha Purnachander Rao, Sambandam Anandan, H.S. Nagaraja, Adsorption and photocatalytic properties of NiO nanoparticles synthesized via a thermal decomposition process, J. Mater. Res., 33(5), 601-610, 2018.
4. Martha Ramesh, H.S. Nagaraja, Effect of current density and electrochemical cycling on electrochemical, structural and optical properties of Si nanowires as anode for Lithium ion battery, Materials characterization, 129 (2017) 24-30.
5. Martha ramesh, Martha Purnachander Rao, F Rossignol, H.S. Nagaraja, rGO/MnO₂ nanowires for ultrasonic combined Fenton assisted efficient degradation of reactive block 5, Water Sci Technol. 2017 001.
6. Martha Ramesh, CuO as efficient photo catalyst for photocatalytic decoloration of wastewater containing Azo dyes, Water Practice and Technology wpt 2021067, <https://doi.org/10.2166/wpt.2021.067>.
7. Martha Ramesh, Electrochemically oxidized porous silicon uses as a chemical sensor for ethanol detection, ECS Journal of Solid State Science and Technology, 2020 9 081002.
8. Martha Ramesh, Carotenoid like Lycopene extracted from tomato as an efficient electrode for high specific capacitance and high power density of supercapacitors, J Mater Sci: Mater Electron (2021) 32:13926-13940.
9. Martha Ramesh, N and Fe doped NiO nanoparticles for enhanced photocatalytic degradation of azo dye methylene blue in the presence of visible light, SN Applied Sciences, (2021) 3: 817.
10. Dhanush Shanbhag, Bindu K, Aarathy A R, Martha Ramesh, Sreejesh M H.S. Nagaraja Hydrothermally synthesized reduced graphene oxide and Sn doped Manganese dioxide nanocomposites for supercapacitor and Dopamine sensor, Materials Today Energy, 6 (2017) 66-74.

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- <https://systems.enpress-publisher.com/si.php/index/detail?id=274&jid=25>

Conferences:

1. Martha Ramesh, H.S. Nagaraja, Effect of etching time on structural properties of porous silicon at room temperature, Materials Today: Proceedings 3 (2016) 2085–2090.

Patents:**Research & Consultancy:****No. of Books/Chapter Published with details:**

1. SK Kiran, M Ramesh, S Shukla, S Saxena, Silicon Materials for Lithium-ion Battery Applications, materials research forum, 2020, 80, 161-202

Events Organized:**Conferences:****FDPs/STTPs:****Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:**

1. Five day online National webinar on “Research Trending Areas in Humanities and Basic Sciences”. Date of Event: November 15-20, 2021 conducted by Research and Development Department, ACE Engineering College.

Events Attended**FDPs/STTPs:****Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:****Online Certifications:**

1. Completed NPTEL Online Certification Course in the subject of “Crystallography”, 2021.

Any Other Contribution: