

STAFF PROFILE

Name : Dr. M. MOHAMED RAFI
Designation : ASSISTANT PROFESSOR
Department : PHYSICS
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1. Academic Qualification

| Degree | Year | Subject | Institution | University |
|---------|------|-------------------------|--|--|
| Ph.D. | 2017 | Physics – Nanomaterials | Islamiah College, Vaniyambadi | Thiruvalluvar University, Serkadu, Vellore |
| M.Phil. | 2005 | Physics – Thin Films | Jamal Mohamed College, Tiruchirappalli | Bharathidasan University, Tiruchirappalli |
| PG | 2004 | Physics | Jamal Mohamed College, Tiruchirappalli | Bharathidasan University, Tiruchirappalli |
| UG | 2002 | Physics | C. Abdul Hakeem College, Melvisharam | University of Madras |
| Other | - | - | - | - |

2. Work Experience

| S.No. | Positions Held | Name of the Institute | From | To |
|-------|---------------------|--|------------|------------|
| 1 | LECTURER | Sri Balaji Chockalingam Engineering College, Arani | 04-08-2005 | 12-06-2007 |
| 2 | LECTURER | C Abdul Hakeem College, Melvisharam | 03-09-2007 | 10-04-2014 |
| 3 | ASSISTANT PROFESSOR | Kingston Engineering College, Katpadi, Vellore | 02-01-2015 | 14-05-2018 |
| 4 | ASSISTANT PROFESSOR | C Abdul Hakeem College, Melvisharam | 18-06-2018 | TILL DATE |

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3. Professional Recognition/Award/Prize/Certificate/Fellowship received

| S.No. | Name of the Award | Awarding Agency | Year |
|-------|-------------------|-----------------|------|
| | NIL | NIL | NIL |
| | | | |

4. Professional Development Programme Attended (FDP/FIP/RC/OP/PDP – More than 3 Days)

| S.No. | Name of the Programme | Name of the Organizer | Duration With Date |
|-------|---|---|---|
| 1 | Faculty Induction Programme – FIP | UGC-HRDC, MAULANA AZAD NATIONAL URDU UNIVERSITY - MANUU, HYDERABAD | 30 Days 22/11/2021 TO 21/12/2021 |
| 2 | Refresher Course in “Reforms & Innovations in Higher Education (Multidisciplinary)” | UGC-HRDC, BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI | 14 Days 07/02/2023 TO 20/02/2023 |

4.1 Membership of Professional Bodies

| Name of the Professional Body | Member Type | Year |
|-------------------------------|-------------|------|
| NIL | NIL | NIL |

4.2 Membership in Committee(s)

| Name of the Committee | Designation | Year |
|-----------------------|-------------|------|
| NIL | NIL | NIL |

5. Research & Development

5.1 List of Projects (Title, Funding agency, Amount Generated)

| Year | Title of the Project | Funding Agencies | Amount | Status |
|------|----------------------|------------------|--------|--------|
| NIL | NIL | NIL | NIL | NIL |

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5.2 List of Papers published (Name, Title, Journal Name, Volume, Year, Page No) (Link if any)

| Year | Name of the Authors | Title of the Paper | Vol., Year, Page No | Link if any |
|------|---|---|--------------------------------|---|
| 2015 | M. Mohamed Rafi , K. Syed Zameer Ahmed, K. Prem Nazeer, D. Siva Kumar, M. Thamilselvan | “Synthesis, characterization and magnetic properties of hematite (α -Fe ₂ O ₃) nanoparticles on polysaccharide templates and their antibacterial activity” Applied Nanoscience (Springer) | 5:515–520 | https://link.springer.com/article/10.1007/s13204-014-0344-z |
| 2015 | M. Mohamed Rafi , K.Syed Zameer Ahmed, K. Prem Nazeer, D. Siva Kumar | Antibacterial Activity of Iron Oxide Nanoparticles on Polysaccharide Templates: Synthesis, Characterization And Magnetic Studies Malaysian Polymer Journal | Vol.10 No. 1, p 16-22, 2015. | https://myjournal.mohe.gov.my/public/article-view.php?id=89800 |
| 2017 | K. Syed Zameer Ahmed, S.Sidhra, B.Senthil Kumar, A.Thanga Kumar, K.Geetha, M. Mohamed Rafi , P. Ponnuragan, R. Kishore | Modulatory effect of dianthrone rich alcoholic flower extract of Cassia auriculata. L. on experimental diabetes Integr Med Res. | Jun;6(2):131-140 | https://doi.org/10.1016/j.imr.2017.01.007 |
| 2017 | Dhananjayan Sivakumar, Mehboob Mohamed Rafi , Balaraman Sathyaseelan, Kulam Mohammed Prem Nazeer, Ahmed Meeran Ayisha Begam | Synthesis and characterization of superparamagnetic Iron Oxide nanoparticles (SPIONs) stabilized by Glucose, Fructose and Sucrose, Int. J. Nano Dimens. | 8 (3): 257-264 | https://journals.iau.ir/article/655415_9d202e838e5d45d66f6e4d2b2eea1a32.pdf |
| 2018 | Syed Zameer Ahmed Khader, Sidhra Syed Zameer Ahmed, Jagadeeswari Sathyan, Mohamed Rafi Mahboob , Kisore P. Venkatesh, Kishore Ramesh | A comparative study on larvicidal potential of selected medicinal plants over green synthesized silver nano particles, Egyptian Journal of Basic and Applied Sciences | Volume 5, Issue 1, Pages54-62. | https://doi.org/10.1016/j.ejbas.2018.01.002 |
| 2018 | D. Siva Kumar, K. Chandra Babu Naidu, M. Mohamed Rafi , K. Prem Nazeer, A. Ayisha Begam, G. Ramesh Kumar | Structural and dielectric properties of superparamagnetic iron oxide nanoparticles (SPIONs) stabilized by sugar solutions, Materials Science-Poland | DOI: 10.1515/msp-2018-0017 | https://intapi.sciendo.com/pdf/10.1515/msp-2018-0017 |

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|------|--|---|-----------------------------------|---|
| 2018 | M Madankumar, D Sivakumar, S Premkumar, M Manivannan, M Mohamed Rafi , K Prem Nazeer, A Ayisha Begam | Synthesis and dielectric studies of magnetite nanoparticles J Emer Tech Inn Res | 5 Pages 886-97 | https://www.jetir.org/papers/JETIR1805567.pdf |
| 2018 | D Sivakumar, S Premkumar, M Madankumar, M Manivannan, M Mohamed Rafi , K Prem Nazeer, A Ayisha Begam | Structural characterization and dielectric properties of starch coated magnetite nanoparticles J Emer Tech Inn Res | 5 Pages 61-72 | https://www.jetir.org/papers/JETIR1805766.pdf |
| 2018 | D. Sivakumar, K. Chandra Babu Naidu, K. Prem Nazeer, M. Mohamed Rafi , G. Ramesh kumar, B. Sathyaseelan, G. Killivalavan, and A. Ayisha Begam | Structural Characterization and Dielectric Studies of Superparamagnetic Iron Oxide Nanoparticles, Journal of the Korean Ceramic Society | Vol. 55, No. 3, pp. 230~238 | https://www.jkcs.or.kr/upload/pdf/kcers-2018-55-3-02.pdf |
| 2020 | Syed Zameer Ahmed Khader, Sidhra Syed Zameer Ahmed, Gayathri Menon Ganesan, Mohamed Rafi Mahboob , Manimaran Vetrivel, Manavalan Sankarappan, Paulpandi Manickam | Rhynchosia rufescens AgNPs enhance cytotoxicity by ROS-mediated apoptosis in MCF-7 cell lines Environmental Science and Pollution Research | 27 Pages 2155-2164 | https://link.springer.com/article/10.1007/s11356-019-06479-y |
| 2021 | Sidhra Syed Zameer Ahmed, Naresh Balu, Syed Zameer Ahmed Khader, Mohamed Rafi Mahboob , Shanmugasundaram O Lakshmanan, Manimaran Vetrivel | Fabrication and evaluation of bamboo fabric coated with extracts of Curcuma longa, Centella asiatica and Azadirachta indica as a wound dressing material Advances in Traditional Medicine | 21 Pages 83-95 | https://link.springer.com/article/10.1007/s13596-020-00503-0 |
| 2022 | Syed Zameer Ahmed Khader, Sidhra Syed Zameer Ahmed, Mohamed Rafi Mahboob , Selva Barathi Prabakaran, Shanmugasundaram Olapalayam Lakshmanan, Kishore Ramesh Kumar, Daniel David | In vitro anti-inflammatory, anti-arthritic and anti-proliferative activity of green synthesized silver nanoparticles - Phoenix dactylifera (Rothan dates) Brazilian Journal of Pharmaceutical Sciences | 58 Pages e18594 | https://doi.org/10.1590/s2175-97902022e18594 |

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| 2024 | Syed Zameer Ahmed Khader, Sidhra Syed Zameer Ahmed, Manthra Raju, Mohamed Rafi Mahboob , Sundarraj Subramaniyan, Abithaa Kaliyannan Rajavel, Kamaraj Chinnaperumal, Dhanush Sakthivel | Dioxepine-derived surface-capping gold nanoparticles (Dd-AuNPs) induces ROS-mediated apoptosis and cell cycle arrest in A549 human lung cancer cell line Gold Bulletin | Volume 57 pages 65–77 | https://link.springer.com/article/10.1007/s13404-024-00348-4 |
|------|--|---|--------------------------|---|

5.3 Detail of patents.

| Year | Title of the Patent | Status |
|-------------|--|-----------|
| August 2023 | Sustainable Synthesis of Magnetite Nanoparticles Using Photobiont. Mycobiont From Hypotrachyna Exsecda (Taylor) Hale With Its Therapeutic Effect | Published |
| August 2023 | Rapid formulation of Dioxepine derivative impregnated silver nanoparticles against Lung cancer. | Published |

5.4 List of Books/Reports/Chapters/General articles etc. (Author, Chapter Title, Book Title, Publisher, Year, ISBN/ISSN) (Link if any)

| Year | Name of the Authors | Title of the Book/Chapter | Publisher | ISBN/ISSN |
|------|---------------------|---------------------------|-----------|-----------|
| NIL | NIL | NIL | NIL | NIL |

5.5 List of Paper Presentations in National/International Seminar/Conference (Paper Title, Seminar/Conference, Place, Date)

| Year | Title of the Paper | Name of the Seminar/Conference | Place | Date |
|------|--------------------|--------------------------------|-------|------|
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5.6 List of Invited Talk

| Year | Title of the Talk | Nature of the Event | Place | Date |
|------|-------------------|---------------------|-------|------|
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5.7 VIDWAN ID: 216417& <https://vidwan.inflibnet.ac.in/myprofile>

5.8 Research Identification* (IF ANY)

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|-------------------------------------|---------------------------------------|
| Orcid ID 0000-0002-2227-8543 | Researcher ID G-6180-2016 |
| SCOPUS ID 6701800401 | Google Scholar ID 2BhUZt4AAAAJ |

6 Any Other