

Dr. M. R. JAGADEESH, M. Sc.,M.Phil., Ph D.

Associate Professor,
Department of Physics
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|------------------|-----------------|
| Caste/ Category: | Hindu Lingayath |
| Date of Birth: | 03 Jan 1984 |
| Age: | 39 |
| Gender: | Male |
| Marital Status: | Married |

Academic Background

| Sl. No. | Name of the Degree | Name of the Institution/ University | Year of Passing | Class |
|---------|--------------------|--|-----------------|---------|
| 1 | Ph. D | Visveswaraya Technological University (VTU) Belagavi | 2016 | Awarded |
| 2 | M. Phil | Tamilnadu University | 2009 | Awarded |
| 3 | M. Sc | Kuvempu University, Shimoga | 2006 | First |

Teaching Experience: 17 Years

| Sl | Name of the organization/Institute | Designation | Duration | Experience |
|----|---|------------------------|---------------------------------|------------|
| 1 | M M P U College Shivamogga | Lecturer | 01-06-2006 To 28-06-2007 | 1 Year |
| 1 | G M Institute of Technology Davangere | Lecturer | 13- 08-2007 To 31-07-2014 | 8 Years |
| 2 | G M Institute of Technology Davangere | Assistant Professor | 01-08-2014 To 31-05-2016 | 2 Years |
| 3 | Jain Institute of Technology Davangere | Associate Professor | 01-08-2016 To 23-07-2022 | 6 Years |
| 4 | Bapuji Institute of Engineering and Technology, Davanagere | Associate Professor | 01-08-2022 | |

Research Experience: 9 Years

| Sl. | Name of the Degree | Topic | Duration | Research Experience |
|-----|--|--|---------------------------|---------------------|
| 1 | Current research work Research Centre, Jain Institute of Technology, Davanagere | Crystal Physics, Nonlinear Optics, Nano Composites | Nov 2016- Till to date | 3 Years |
| 2 | Ph. D Research | GROWTH AND CHARACTERIZATION OF SOME ORGANIC CRYSTALS FOR NLO APPLICATIONS Guide: <i>Dr. Suresh Kumar H M and Dr. Ananda Kumari R, SIT Tumkur.</i> | Nov 2010- Nov 2016 | 6 years |
| 3 | Research areas | Spectroscopy Crystal Growth Nano Composites Non Linear Optics Linear Optical Properties Thermo-electric Properties Evaluation of structural and Mechanical properties | | |

Publications/Conferences/ Ph. D Guidance Statistics

| Sl. | Type of Publications | No of Publications |
|-----|---|----------------------------------|
| 1 | Publications | 20 (Scopus Indexed) |
| 2 | Papers Presented in conferences/symposia | 10 (Proceedings) |
| 3 | Number of conferences /workshops attended | 15 National and International |
| 4 | No of Ph D Guidance | 3 (VTU) |

List of Candidates working for their Ph. D

| Sl No | Name of the Student | Mode of Guidance | Course | University | Year of Registration & Status |
|-------|---------------------|------------------|--------|---------------------|--------------------------------|
| 1 | Mr. Y A Kulakarni | Guide | Ph D | V. T. U Belagavi | 2016 Pre Ph D Colloquium |
| 2 | Srivalli N G. | Guide | Ph D | V. T. U Belagavi | 2020 Course Work |
| 3 | Namitha R L | Guide | Ph D | V. T. U Belagavi | 2020 Course Work |

List of significant Papers Presented

| Sl. | Title of the Paper | Organizer |
|-----|---|---|
| 1 | Optical and second harmonic generation (SHG) efficiency studies in NLO crystals | Dept. of Atomic Energy |
| 2 | Spectral and SHG studies in some NLO crystals | M S University, Vadodara |
| 3 | Crystal growth and characterization of a semi organic NLO material: L-Alanine Ammonium Bromide | Anna university |
| 4 | Growth, Structural, Spectral, optical and dielectric studies on L-alanine mixed barium nitrate crystals | Bhabha Atomic Research Centre, Mumbai |
| 5 | Growth, spectral, optical, thermal, dielectric and mechanical studies on Urea Potassium Iodide crystal | GSSS Mysore |
| 6 | Growth and characterization of doped adp crystals for optoelectronic applications | G M Institute of Technology, Davangere |
| 7 | Structural characterization and Rietveld refinement of rare earth substituted nano nickel ferrite synthesized by low-temperature citrate precursor method | G M Institute of Technology, Davangere |
| 8 | Growth and characterization of some semiorganic crystals for optoelectronic applications | BIET Davangere |
| 9 | Growth and characterization of doped L-alanine nanocrystals | Srinivasa University Manglore |
| 10 | AC conductivity and dielectric properties of α - and gamma-MnO ₂ nanostructures prepared at different temperatures | KSTA National Level Conference, Bangalore |
| 11 | Growth and characterization of Zic sulphate doped L-alanine crystals for optoelectronic applications | International Conference on Materials and manufacturing technology 2021 Coimbatore |
| 12 | Influence of Lead ion on the Growth and Characterization of L Alanine NLO Crystals | International Conference on Advanced Materials Science and Applications (ICAMSA) MSRIT, Bengaluru |

Members of Professional Bodies

1. Indian Association for Physics Teachers [Life member]
2. Karnataka Rajya Vignana Parishad (KRVP) [Life member]
3. ISTE-Life membership
4. Institution of Scholars – Life member
5. Karnataka State Scientific Research Council
6. Karnataka Science and Technology Academy

List of Significant Publications

1. **Jagadeesh M. R**, Suresh Kumar H. M. R. Ananda Kumari Crystal growth and characterization of a new NLO crystal: Urea 2- furoic acid' Optik- International journal of Light and Electron Optics Elsevier Publication 126 (23), 4014-4018, 2015
2. **Jagadeesh M. R**, Suresh Kumar H. M. R. Ananda Kumari Growth and Characterization of NLO crystal - L-Leucine Phthalic acid Potassium Iodide' Materials Science Poland- Springer Publications 33, 529-536, 2015
3. **Jagadeesh M. R**, Suresh Kumar H. M. R. Ananda Kumari, Crystal growth and characterization of a semi organic NLO material: L-Phenylalanine Cadmium Chloride Canadian Journal of Physics 93(11): 1296-1301, 2015
4. **Jagadeesh M.R**, Suresh Kumar H. M. R. Ananda Kumari, Growth and characterization of mercuric chloride doped urea single crystals' Materials Research Innovations, Taylor and Francis Publications 21 (6), 391-395, 2017
5. **Jagadeesh M.R**, Suresh Kumar H. M. R. Ananda Kumari Growth and characterization of an organic NLO crystal: L-alanine-2-furoic acid' Applied Science Research, 6 (4): 188-197, 2014
6. A Alhadhrami, **M R Jagadeesh**, B M Prasanna and M R Hareeshkumar, Growth and characterization of nonlinear optical crystal: Ammonium Iodate doped L-Alanine, Physica Scripta (Q2-IOP Science Publishers), 2021, 96. 125810. <https://doi.org/10.1088/1402-4896/ac2187/meta>
7. M R Hareeshkumar, **M R Jagadeesh**, G J Shankaramurthy and B M Prasanna, Growth, Nonlinear Optical, Electrical, Mechanical and Dielectric Properties of Zinc Sulphate Doped L-Alanine Single Crystal for Optoelectronic Applications, IOP

Conference Series: Materials Science and Engineering, (IOP Science Publishers) 2021,1166, 012035.

8. Suresh Kumar H.M., **Jagadeesh M. R** Growth, characterization and the effect of γ -irradiation on linear and nonlinear optical properties of L-Alanine Ammonium Bromide: a new semiorganic crystal Materials Research Innovations, Taylor and Francis Publications 1-9, 2017
<http://dx.doi.org/10.1080/14328917.2017.1323990>

9. Arun M. Islor, **Jagadeesh M. R.**, H. M. Suresh Kumar “Structure Reports on N1-(4-Methylphenyl)piperidine-1,4- Dicarboxamide” Acta Crystallographica E68(12), o3452-03452

10. Kulakarni, Y.A., **Jagadeesh M R** “Frequency dependence of AC conductivity and dielectric properties evaluation of in-situ prepared polyaniline/manganese dioxide composite” Mater Sci: Mater Electron 31 (1), 7226– 7231

11. B. M. Praveen, B.M. Prasanna, N. M. Mallikarjuna, **M. R. Jagadeesh**, Narayana Hebbar, D. Rashmi, Investigation of anticorrosive behavior of novel tert-butyl 4-[(4-methyl phenyl) carbonyl] piperazine-1-carboxylate for carbon steel in 1M HCl, Heliyon, (Q1-Elsevier), Volume 7, Issue 2, 2021, e06090, ISSN 2405-8440, <https://doi.org/10.1016/j.heliyon.2021.e06090>

12. M. R. Hareeshkumar, G. J. Shankaramurthy, A. Alhadhrami **M. R. Jagadeesh**, B. M. Prasanna Growth, physiochemical and NLO properties study of novel L-alanine tri-sodium citrate single crystal. Physica Scripta (Q2-IOP Science Publishers) Vol 46, 2021.

13. B. Suresh Kumara, H. M. Suresh Kumar **M. R. Jagadeesh** Co-60 -irradiation effect on linear, nonlinear optical and electrical properties of a semiorganic L-alanine barium nitrate (LABN) crystal Materials Research Innovations, 2017 Taylor & Francis Group <http://dx.doi.org/10.1080/14328917.2017.1323990> 2017

14. Yankappa A Kulakarni, **M R Jagadeesh**, Sahebagouda Jambaladinni, HM SureshKumar, MS Vasanthkumar, S Shivakumara, AC conductivity and dielectric properties of nanostructured amorphous manganese dioxide and polypyrrole/manganese dioxide composite, Journal of Materials Science: Materials in Electronics volume 32, pages 3352–3360 (2021)
15. B. Suresh Kumara, H. M. Suresh Kumar **M. R. Jagadeesh** L-citrulline (LC) doped zinc tris-thiourea sulfate (ZTS) single crystals for photonic applications, Indian J Phys (2021). <https://doi.org/10.1007/s12648-021-02145-7>
16. B. M. Prasanna, Narayana Hebbar P. Shivakeshava Kumar **M. R. Jagadeesh** B. M. Praveen Experimental and theoretical studies on inhibition effect of the praziquantel on mild steel corrosion in 1M HCL, Journal of Bio- and Tribo-Corrosion <https://doi.org/10.1007/s40735-018-0137-0>
17. M. R. Hareeshkumar., G. J. Shankaramurthy, A. Alhadhrami, **M R Jagadeesh**, Growth, Characterization and NLO Property Study of Doped L-Alanine Crystal. Iran J Sci Technol Trans Sci (2021) (Q2 -Springer Nature), <https://doi.org/10.1007/s40995-021-01160-x>
18. B S Kumar, **M R Jagadeesh**, S Tilak, HMS Kumar L-Ornithine Monohydrochloride Doped Zinc Tris-Thiourea Sulphate Single Crystals for NLO Applications Silicon, 1-11 <https://doi.org/10.1007/s12633-020-00681-1>
19. M. M. Mohamed, B. M. Prasanna, Narayana Hebbar, Raiedahah Alsaiani, G. Banuprakash **M. R. Jagadeesh**, Moustafa A. Rizk Corrosion Inhibitive Action of Tenofovir Disproxil Fumarate (TDF) on Low Carbon Steel in 1M HCl,
20. Yankappa A Kulakarni, **Jagadeesh M. R**, Suresh Kumar H M, Vasanthkumar M., S. Shivakumara AC conductivity and dielectric properties of α - and gamma-MnO₂ nanostructures prepared at different temperatures, Mater Sci: Mater Electron (Communicated)

21. Yankappa A Kulakarni, **Jagadeesh M. R**, Suresh Kumar H M, Vasanthkumar M., S.Shivakumara AC conductivity and dielectric studies of amorphous manganese oxide and manganese oxide/polymer nanocomposites, Physica Scripta (Communicated)

22. B S Kumar, **M R Jagadeesh**, HMS Kumar L-ornithine monohydrochloride and L-citrulline Doped Zinc Tris-Thiourea Sulphate Single Crystals for Photonic applications (Communicated)

23. B S Kumar, **M R Jagadeesh**, HMS Kumar L-Ornithine Monohydrochloride (LOMHC) doped Potassium Dihydrogen Phosphate (KDP) and Ammonium Dihydrogen Phosphate (ADP) Single Crystals for NLO Applications (Communicated)

Major Conferences attended

| Sl | Name of training / workshop/Seminar | Year | Organizers |
|----|--|------|--|
| 1 | 'Frontier Areas of Physics' | 2005 | Department of Physics, Kuvempu University, Funded by UGC |
| 2 | 'Recent trends in Electronic Instrumentation' April | 2006 | Dept. of Electronics, Kuvempu University. |
| 3 | 'Einstein Contributions to Mankind' | 2007 | SJM College, Chitradurga, Karnataka. |
| 4 | DAE-BRNS Symposium on atomic, molecular and optical physics | 2009 | Board of Research in Nuclear sciences, Dept. of Atomic Energy, Government of India |
| 5 | Nuclear Energy for 21 st Century at | 2010 | SDMCET, Dharwad |
| 6 | Research Methodologies and LATEX' | 2011 | VTU e-learning centre at Mysore |
| 7 | Preparation, characterization of Crystalline Materials and their Applications | 2012 | DRDO/Anna University |
| 8 | Optical Engineering', (IEEE approved) | 2012 | VTU, Belagavi |
| 9 | Plagiarism Awareness Program | 2015 | VTU, Belagavi |
| 10 | Basic Rietveld Refinement | 2017 | SIT Tumkur |
| 11 | Attended workshop on New Model Curriculum as per Outcome based Education (OBE) on 19th may | 2018 | SCEM, Mangaluru |

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|----|---|------|--|
| 12 | “International Webinar on Materials Science” | 2020 | National College, Jayanagar, Bangalore on 28-05-2020. |
| 13 | “SMART MATERIALS SENSOR AND ENERGY DEVICES (SMSSED – 2020)” | 2020 | SSN College of Engineering, Kalavakkam, Chennai. |
| 14 | “IPR and Patent Drafting” | 2020 | St. Peter’s Institute of Higher Education and Research |
| 15 | Outcome based education Software | 2020 | Vmedulife solutions banglore |
| 16 | Two dimensional Materials | 2021 | Cambridge Institute of Technology |
| 17 | Recent Advances in Nanoscience and Nanotechnology | 2021 | KSTA Sponsored National Level Conference |

Researcher Profiles / Id’s

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|--|---|
| Scopus author ID | 57213259340 |
| ORCiD | 0000-0002-8960-4067 |
| Web of Science Id | AGE-3682-2022 |
| Google Scholar profile URL: | https://scholar.google.com/citations?user=PaJgEyoAAAAJ&hl=en&authuser=1 |
| Research Gate Profile URL: Research Gate Score: | https://www.researchgate.net/profile/Jagadeesh_Medikere 13.75 |
| Linkedin_id | https://www.linkedin.com/in/dr-jagadeesh-m-r-06374115/ |

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