

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

Associate Professor, Department of Physics

Jain Institute of Technology, Davangere-577 003



Contact Details

Mobile Number : 9740776111

E-mail : jmrshyagale@gmail.com

Address for Communication

**#5450/A-9, Banashankari Layout, behind Swamy Vivekananda School,
Davangere-05**

Permanent address

Shyagale Village and Post, Davangere T & D-577002

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:16 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, Davangere	Associate Professor	01-08-2022 To till date	

Research Experience: 12 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	6 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	21 (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

Invited Talks

Sl	Details
1	Delivered a Key note address on “Science and Scientific Research Methodology in Sample Preparation” at Sharanabasveshwar College of Science, Kalburgi.
2	Delivered a Lecture on “Geo Physics and importance of Ground Water” Organized by Department of Ground water, Government of Karnataka.
3	Addressed the Jain Polytechnic Students on National Science Day and given a lecture on “Contributions of C V Raman to Mankind”
4	Delivered a lecture on “National Science Day” at Raghavendra Hi Tech P U College-Sharada Academy Davangere
5	Delivered a lecture on “Scientific Temperament” at Siddalingeswara School Avaragere, Davangere
6	Delivered a Key note address on “Use of Technology in Education” at BEMS arts and Science college Byadgi Haveri Dist.
7	Delivered lecture on “Materials Characterization” at Bapuji Institute of Technology, Davangere
8	Given a talk on “Characterization Techniques” for M. Sc Physics students of Davangere University.
9	Delivered invited talk on What after SSLC and importance of Science in Daily life at Kabbala of Channagiri Taluk
10	“Crystal growth and characterization” on 1 st Sept 2022 at Department of Physics, Siddaganga Institute of Technology, Tumakuru.
11	“Importance of Digital Learning in higher education” at BESM arts and Commerce college Byadgi on 23 rd Jan 2023

Online certification details

1. Successfully completed “**Digital 101 Journey**” on 16/01/2023 sponsored by Ministry of Electronics and Information Technology, Govt. Of India in association with NASSCOM and AICTE. Certificate ID: FSP/2023/1/7520495
2. Earned the digital badge on **Quantum Computing** 27/01/2023 sponsored by Ministry of Electronics and Information Technology, Govt. Of India in association with NASSCOM and AICTE.

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
7. Indian LASER Association
8. National Council for Teacher Scientist (NCTS)

Text Book Written

Title: Crystal growth and Characterization	Publisher: Lambert Academic Publishing 2019	Published ISBN-978-613-8-32039-5
---	--	---

Ph.D. Doctoral Committee: Subject external domain expert

1. UBDTCE, DVG
2. Sri Siddhartha Deemed to be University, Tumakurur
3. Acharya Institute of Technology, Bangalore
4. PESITM, Shivamogga

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**, 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, pages3352–3360 (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 SingleCrystals 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. B S Kumar, **M R Jagadeesh**, HMS Kumar L-ornithine monohydrochloride and L- citrulline Doped Zinc Tris-Thiourea Sulphate Single Crystals for Photonic applications Indian Journal of Physics volume 96, pages2293–2301 (2022)
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, Journal of Materials Science: Materials in Electronics volume 34, Article number: 176 (2023)

22. 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)
23. Yankappa A Kulakarni, **Jagadeesh M. R**, Suresh Kumar H M , Vasanthkumar M., S.Shivakumara AC conductivity and dielectric properties of α - and γ -MnO₂ nanostructures prepared at different temperatures (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
12	International Conference on Nanotechnology	2019	Srinivas University Mangalore

12	“International Webinar on Materials Science”	2020	National College, Jayanagar, Bangalore on 28-05-2020.
13	“SMART MATERIALS SENSOR AND ENERGY DEVICES (SMSED – 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
18	Trends of research to unravel science and technolgt-2020	2020	Acharya Intitute of Technology, Banglore
19	Attended 3 days FDP on Quantum Computing	2023	Bangalore Institute of Technology
20	Interface of IPR in academics and Entrepreneurship	2023	Bapuji Institute of Engineering and Technology, Davangere
21	Best Practices of NEP-2020 in higher Education Institutions	2023	Bapuji Institute of Engineering and Technology, Davangere

Researcher Profiles / Id’s

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/

Dr. Jagadeesh M R