

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

Associate Professor, Department of Physics

Bapuji Institute of Technology, Davanagere-577 004



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Permanent address

Shyagale Village and Post, Davangere T & D-577002

Caste/ Category:	Hindu Lingayath
Date of Birth:	03 Jan 1984
Age:	40
Gender:	Male
Marital Status:	Married

Academic Background

Sl. No.	Degree	Name of the Institution/ University	Year of Passing
1	Ph. D	Visveswaraya Technological University (VTU) Belagavi	2016
2	M. Sc.	Kuvempu University, Shivamogga	2006
3	B.Sc.	D R M Science College, Davangere	2004

Teaching Experience:16 Years

<i>Sl</i>	<i>Name of the organization/Institute</i>	<i>Designation</i>	<i>Duration</i>	<i>Experience</i>
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	7 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

<i>Sl</i>	<i>Name of the Degree</i>	<i>Topic</i>	<i>Duration</i>	<i>Research Experience</i>
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	22 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 Completed

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 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
12	On Science Day program 2023 at Seetamma college Davangere, Organized by Zilla Panchayath-NRDMS Davangere on 6th march 2023
13	Talk on world environmental day 2023 at Nutana B.Ed college Davangere on 5th June 2023
14	Career Guidance for PU Students at Winners Carrer Academy Davangere 9 th April 2023
15	What after P U C? at Raghavendra Hi Tech P U college Davangere 18 th May 2023

Patents Published:

Indian Patent- “Principles of Green Sustainability and Physics as a basis for low-carbon Energy transition” during October 2022

Training Course:

One-month online Training course on quantum computing using “Indigenous quantum simulator Qsim” during May 2023 organized by IIT Roorkee and C-DAC Hyderabad, Sponsored by Government of India.

Completed Hands-On Training on One Day's Hands On Online Training Workshop On (10th August-2023) On Nanomaterial & Nanodevice Modeling Simulation Using Rescue Software From nano-academic Technologies

Refresher Course:

Completed online Two - week refresher course in “PHYSICS” from 30th August – 13th September, 2023 and obtained Grade A+ from Teaching Learning Centre Ramanujan College, University of Delhi in Collaboration with Bhaskaracharya College of Applied Sciences, University of Delhi under the aegis of Ministry Of Education Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching.

Science Magazine Editor

Nominated as Editorial member for the bimonthly Popular Science magazine in Kannada Vignana Siri (RNI Number: KARKAN28241) in November 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.
3. Earned the digital badge on Practicing Innovation Design and Thinking 24/01/2023 sponsored by Ministry of Electronics and Information Technology.

Journal/ Text book Editor/Reviewer

Text book editor for “Futuristic Trends in Physical Sciences” with Series Code IIPV3EBS07 from June 2023

Reviewer for the journal “Case Studies in Thermal Engineering” from June 2023 Series Q-1

Funded Seminar:

Received the Seminar grant for the topic “**Quantum Computation**” form **Indian National Academy of Sciences** on 24th August 2023

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)
9. Indian Association for Crystal Growth
10. Karnataka Association for Advancement in Science (KAAS)
11. Member of the Education Research and Development Association (ERDA)
12. Karnataka Physics Teachers Association

Text Book Written

Title: Crystal growth and Characterization	Publisher: Lambert Academic Publishing 2019	Published ISBN-978-613-8-32039-5
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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**
- 5. SJBIT Bangalore**
- 6. Adichunchanagiri Institute of Technology, Chikkamagalur**

Research Collaboration with other Institutes

INTERNATIONAL

Dr. Mabkhoot A. Alsaieri	Empty Quarter Research Unit, Najran University, Saudi Arabia	Crystallography and NLO Properties of materials
Dr. Moustafa A. Rizk	Suez Canal University, Ismailia, Egypt	Crystallography and NLO Properties of materials
Dr. A. Alhadhrami	Taif University, Saudi Arabia.	Crystallography and NLO Properties of materials

NATIONAL

Dr. Suresh Kumar H M	Siddaganga Institute of Technology	Nano composites and Crystal Physics
Dr. Arun M	National Institute of Technology Surathkal	Synthesis and structural Studies of Novel organic derivatives
Dr. Nagaraj T M	Sri Siddhartha Deemed to be University Tumkuru	Nano Composites and applications
Dr. Shivakumara S	Reva University Bangalore	Polymer Nano structures and their applications
Dr. Vasantha Kumar M S	Acharya Institute of Technology, Bangalore	Low temperature Physics

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. 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>
16. 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>
17. 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>
18. 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,
19. 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) <https://doi.org/10.1007/s12648-021-02145-7>
20. 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)
21. B. S Sail, V Naik, B M Prasanna, Naushad Ahmad, Mohammad R K, **M R Jagadeesh**, Ravi C, Synthesis, Characterization And Pharmacological Studies Of Cobalt (II), Nickel (II) And Copper (II) Complexes Of Thiazole Schiff Bases, *Journal of Molecular Structure*, Volume 1288, September 2023, pp 135748, Elsevier publications.
22. B. Suresh Kumar, **M. R. Jagadeesh**, and H. M. Suresh Kumar, Growth and characterization of L-ornithine monohydrochloride single crystal doped with Co²⁺ and Mn²⁺ ions for NLO applications, *J Mater Sci: Mater Electron* (2022) 33:26706–26716,

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
24. 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 (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 (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
18	Trends of research to unravel science and technolgt-2020	2020	Acharya Intitute of Technology, Bangalore
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
22	Completed one week FDP on “Outcome Based Education for Effective Learning and Teaching” organized by Association of Indian Universities from 19th – 27th July 2023.		
23	Attended 3 days FDP on Quantum Computing from 2nd Feb to 4th Feb 2023at Bangalore Institute of Technology		

Researcher Profiles / Id’s

Scopus author ID	57213259340
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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