Dr. Mallikarjun Anandalli

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Phone: +919482283441 **Date of Birth:** 01-06-1990

Gender: Male

Category: General

Academic qualification



SL No.	Degree	Year	Subject	University/Institution	% of
	Ph.D.	2022	Physics(Condensed Mater Physics and Material Science)	Karnatak University Dharwad	Awarded
1	M. Sc.	2015	Physics(Solid State Physics)	VSKU Bellary, Karnataka	64.3%
2	B.Ed.	2012	Mathematics and Physics	VSKU Bellary, Karnataka	80.07%
3	BSc	2011	Physics, Chemistry, and Mathematics	Gulbarga University	66.32%

Ph.D thesis title	Preparation and Characterization of Fluorescent dye doped polymer		
	nanocomposites		
Guide Name	Prof. R.F. Bhajantri		
	Nuclear and Condensed Matter Physics		
	Department of Physics		
Institute/	Karnatak University, Dharwad,		
Organization/	Pavatenagar-580003		
University	Karnataka, India		
Year of Award	13-05-2022		

Work experience

SL No	Positions held	Name of the Institute	From	То
1	Project Assistant	Karnatak University Dharwad	30-11-2015	14-05 2018
		(DST-SERB Sponsored Project,		
		New Delhi)		

Fellowship received

SL No	Name of Award	Awarding Agency	Year
1	Project	Karnatak University Dharwad	30-11-2015 to 14-05 2018
	Assistant	(DST-SERB Sponsored Project, New	
		Delhi)	
2	URS fellowship	Karnatak University Dharwad	16-05-2018 to 31-04-2019
3	Vidyashree	BCWD government of Karnataka	1-05-2019 to 24-12-2022
	Ph.D Fellowship		

Other Information

Research and Teaching Experience

Position held	Duration	Name and Address of
		University/Organization
Postdoctoral Fellow	30-11-2022 going on	IIUCNN, Mahatma Gandhi University,
		Kottayam, Kerala
Research Associate	20-01-2022 to 07-11-2022	Dept. of Physics, Polymer Physics Lab.
		Karnatak University, Dharwad-
		580003
Guest Faculty	01-06-2022 to 31-08-2022	BNDC degree college Dandeli
Ph.D. Research Scholar	Registered, 27-12-2016	Dept. of Physics, Karnatak University,
	Awarded, 13-05-2022	Dharwad-580003
Project Assistant (DST-	Nov.2015 to March 2018	Dept. of Physics, Karnatak University,
SERB, New Delhi)		Dharwad-580003
Technical Assistant	01-07-2015 to 29-11- 2015	Dept. of Physics, Karnatak University,
		Dharwad-580003

Research Collaborations

Name of Faculty	Name of Organization	Experimental collaboration
Prof. Ali Ben Ahmed	University of Sfax Tunisia, North Africa	DFT Studies
Prof. Sabu Thomas	Department of Chemistry Mahatma Gandhi University, Kottayam,	UV-Visible and other experimental techniques
Prof. Nandakumar Kalarikkal	Department of Physics Mahatma Gandhi University, Kottayam, Kerala	Nonlinear optics Pulsed Laser
Dr. P. S. Patil	Department of Physics KLE Institute of Engg, Hubli	Nonlinear optics continues wave
Prof. V.	Department of Physics,	Dielectric and Fluorescence
Ravindrachary	Mangalore University, Mangalagangotri 547 199	spectroscopy

Guest of Honors

- Invited two days Special lecture series for MSc students Department of Studies in Physics, Raichur University, Karnataka, 29th and 30th June 2022
- Special Lecture on "Astrophysics" Department of Physics, JSS Arts Science and Commerce and PG Department, Gokak,4th July 2022

Invited as a Resource Person event on "One Day work Shop Hands on Training of Spin coating Machine For Research Scholar" Department of Chemistry, Karnatak Science College, Dharwad, 6th September 2022

Research Interest:

Synthesis of nanoparticles/Quantum dots and polymer nanocomposites, Optical, electrical and microstructural properties of polymer-based nanocomposites, Polymer blends, Surface morphological studies, Universal Testing Machine (UTM) for Mechanical Properties of the Polymer Nanocomposite, Steady state and Time resolved fluorescence studies, Anisotropy and Polarisation Emission studies, Development of optoelectronic materials. Dielectric studies on polymer-based nanocomposites. Nonlinear optical (NLO) properties of polymer nanocomposites

Characterization Techniques known:

X-Ray Diffraction (XRD), Transform Infra-Red Spectroscopy (FTIR), DPSS and He-Ne continuous wave Laser (Z-Scan Technique). Nd: YAG Ultrafast Pulsed Laser. Pulsed Laser Deposition (PLD), Fluorescence Image Microscope, Fourier Nanoparticle analyzer, Time-Correlated Single Photon Counting (TCSPC), UV-Visible Spectroscopy, Fluorescence Spectrofluorometer (PL), Impedance Analyzer, Universal Testing Machine (UTM), Thermogravimetric Analysis (TGA), Differential Scanning calorimetry (DSC) Atomic Force Microscopy (AFM), Scanning Electron Microscopy (SEM), Contact Angle measurement.

PROFICIENCY IN: HTML 4.0, Adobe Photoshop 7.0, LaTeX Software, LabVIEW

Reviewer of Journals:

Chemical Physics Letter (CPL),

Journal applied Polymer Science (Wiley)

Journal of Material Science (Springer)

Member of Reviewer Committee

American Journal of Optics and Photonics (12-12-2022 to 12-12-2024)

LIST OF PUBLICATIONS

A. Publications in International Journals

1. Dominant role of organic dye on Mn: ZnS/PMMA polymer nanocomposites: structural, thermal, linear, and nonlinear optical limiting properties for optoelectronic and photonic applications

Mallikarjun H. Anandalli, R. F. Bhajantri, Shivaraj R. Maidur, L.A. Shastri, V Sasirekha Material Today Communication, Elsevier (2023)

2. Physical, structural and photoluminescence characteristics of Sm₂O₃ doped lithium borate glasses bearing large concentration of modifier

Kavita Hanamar, B. G. Hegde, **Mallikarjun H Anandalli**, S. B. Kolavekar, R. F. Bhajantri, N. H. Ayachit, A G Pramod, K Keshavamurthy

Journal of Inorganic and Organometallic Polymers and Materials (2023)

3. Investigation of linear and nonlinear optical properties of brilliant green (BG) dye doped PVA polymer composites for optoelectronic applications.

Mallikarjun H. Anandalli, R. F. Bhajantri, Shivaraj R. Maidur and Parutagouda Shankaragouda Patil,

Journal of Materials Research, volume 36, 2856-2871 (2021)

4. Dominant nature of 7-hydroxy 4-methyl coumarin dye on Thermal, Fluorescence and Antimicrobial Properties of PVA/OMS Blend Films.

Vishram D Hiremani, **Mallikarjun H Anandalli,** Tilak Gasti, Shruti Dixit, Praveen K Bayannavar, Saraswati P Masti, R F Bhajantri, Shyam Kumar Vootla, Bhagyavana S Mudigoudra and Ravindra Chougale.

Journal of Polymer Research 28, 353 (2021),

5. Fluorescence and third-order nonlinear optical properties of thermally stable CBPEA dye-doped PMMA/ZnO nanocomposites.

Mallikarjun H. Anandalli, R. F. Bhajantri, Shivaraj R. Maidur and Parutagouda Shankaragouda Patil,

Journal of Materials Science: Materials in Electronics, 31, 10531–10547 (2020),

6. Mechanical and Thermal Studies of Brilliant Green Doped Poly (vinyl alcohol) Polymer Composite.

Mallikarjun. H. Anandalli, R. F Bhajantria, Sunil G. Rathod, Kanakaraj, Chetan Chavan and Shivaprasad Chalawadi

AIP Conference Proceedings, 2115, 030222 (2019)

7. Physicochemical Properties of PMMA/ZnO Nanocomposite capped with 1- Chloro-9, 10-bis (phenyl ethynyl) anthracene.

Mallikarjun Anandalli, and R. F. Bhajantri T. M. Kanakaraj, Vidyashree Hebbar, Jagadish Naik

AIP Conference Proceedings 1953, 030189 (2018).

8. Influence of thiazole yellow dye on PMMA/CdS nanocomposite thin films enhances microstructural, linear, optical limiting and third order nonlinear optical properties of for optoelectronic and photonic applications (**communicated**).

Mallikarjun H. Anandalli, R. F. Bhajantri

9. Investigation Structural and frequency, temperature dependent dielectric properties of impact anthracene derivative doped on PMMA/ ZnO nanocomposite for energy storage applications (**communicated**).

Mallikarjun H. Anandalli, R. F. Bhajantri, Sunil. G. Rathod and Chetan Chawan

10. Optical properties of neutron irradiated PMMA doped methyl red Soumya S. Bulla, Rajashekara F. Bhajantri, Chetan Chavan, Shivaprasad Chalawadi, Mallikarjun H Anandalli, and Satyappa Kalliguddi. **AIP Conference Proceedings**, 2244, 090004 (2020).

11. Dopant Dependent Microstructural and Fluorescence Properties of Biodegradable Polymer Films for DSSC application.

R Padmakumari, V Ravindrachary, B K Mahantesha, R Sahanakumari, RF Bhajantri, **Mallikarjun H Anandalli**.

Journal of Physics: Conference Series, 1172, 012079, (2019).

12. Effect of calcination temperature on synthesized ZnO nanoparticles

Chavan Chetan, Rajshekar F Bhajantri, Bulla Soumya, Chalawadi Shivaprasad,

Mallikarjun H Anandalli, Kalliguddi Satyappa.

AIP Conference Proceedings, 2244, 070015 (2020),

Synthesis, characterization and AC conductivity studies on bismuth sulfide /Polyaniline-DBSA nanocomposites" (communicated).

Rajeshwari Mirji, Blaise Lobo, R. F Bhajantri, and Mallikarjun Anandalli.

B. Presentation at National/International conference

1. "Influence of Thiazole Yellow G (TY) dye on the Structural, Surface Morphology, Linear and Third-order nonlinear optical properties of PMMA/CdS thin films for Optoelectronic and Photonic applications " International Conference on Recent Trends in Materials Science (ICRTMS 2023), on 07 March, 2023, Kristu Jayanti College, Bengaluru.

Mallikarjun H. Anandalli, R. F. Bhajantri, Nandakumar Kalarikkal, Sabu Thomas

2. Physicochemical Properties of PMMA/ZnO Nanocomposite capped with 1- Chloro-9, 10-bis (phenyl ethynyl) anthracene.

Mallikarjun. H. Anandalli, T. M. Kanakaraj, Vidyashree Hebbar, Jagadish Naik and R. F. Bhajantri

2nd International Conference on Condensed Matter & Applied Physics, Govt. Engineering College, Bikaner, Rajasthan. India held during 24th-25th November.2017.

3. Mechanical and Thermal Studies of Brilliant Green Doped Poly (vinyl alcohol) Polymer Composite.

Mallikarjun. H. Anandalli, R. F Bhajantria, Sunil G. Rathod, Kanakaraj, Chetan Chavan and Shivaprasad Chalawadi

63rd DAE Solid State Physics Symposium, Guru Jambheshwar University of Science and Technology, Hisar, Haryana. India during 18-22nd December 2018.

4. Investigation of Linear and Nonlinear optical properties brilliant green (BG) dye doped PVA polymer composites.(**Oral Presentation**)

Mallikarjun. H. Anandalli, R.F Bhajantri, Shivaraj R. Maidur and Parutagouda Shankaragouda Patil

2ndInternational Conference on Advanced Materials & Technology (ICMAT-20)

Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru, Karnataka, India during 16^{th} to 18^{th} January 2020.

5. Optical, Structural and Thermal studies on synthesized chalcone derivative doped PMMA composite films,

- **Mallikarjun. H. Anandalli**, R.F Bhajantri, Shivaraj R. Maidur and Parutagouda Shankaragouda Patil.
- 5th International conference on Nanoscience and Nanotechnology (ICONN-2019) held at SRM IST, Chennai India during 28-30 January 2019.
- 6. Third International Conference on Nanomaterials: Synthesis Characterization and Applications (ICN-2018) (IIUCNN) Mahatma Gandhi University, Kottayam. Kerala during 11th to 13th May 2018.(*Short invited talk*)
 - **Mallikarjun. H. Anandalli,** R.F Bhajantri, Shivaraj R. Maidur and Parutagouda Shankaragouda Patil.
- 7. Investigation of structural, thermal and mechanical properties of high filler CdSe dispersed PMMA polymer nanocomposites.
 - **Mallikarjun. H. Anandalli**, R. F. Bhajantri, Kanakaraj T.M, Satyappa Kalliguddi, Shivaprasad Chalawadi, Chetan Chavan and Soumya Bulla,
 - International Conference on Advanced Materials Science and Applications (ICAMSA-2020), Ramaiah Institute of Technology, Bangalore, Karnataka. India, during $3^{\rm rd}$ $4^{\rm th}$ September 2020
- 8. Optical properties of polymer films of PVA doped with Thiazole Yellow G Dye Vidyashree Hebbar, R. F. Bhajantri, Sunil Rathod, Jagadish Nail, Chandrappa H, Mallikarjun H Anandalli and Sheela T.
 - International Conference on Materials Science and ionizing safety & Awareness (ICMSIRSA-2016), Department of Physics, Shivaji University, Kolhspur-416004, Maharashtra during 28-30th January 2016.
- 9. Role of ZrO2 Filler on Mechanical and Conducting Properties of PVA/NaClO4 Composites Jagadish Naik, R. F. Bhajantri, Sunil Rathod, Vidyashree Hebbar, Chandrappa H, **Mallikarjun H Anandalli** and Sheela T
 - International Conference on Materials Science and ionizing safety & Awareness (ICMSIRSA-2016), Department of Physics, Shivaji University, Kolhspur-416004, Maharashtra during 28-30th January 2016
- 10. Electrical, Mechanical and Dielectric Studies on MnO2 doped PVA/NaClO4 Polymer nanocomposite

Kanakaraj T.M, Mallikarjun Anandalli and R F Bhajantri

International Conference on Physics of Materials and Nanotechnology (ICPN 2019)

Department of Physics, Mangalore University, Mangalore, Karnataka, India, during 19-21th September 2019.

C. Workshops Attended

- **1.** Three Days Hands-on Training on Advanced Characterization Techniques" at SRM University Chennai from 6th to 8th March 2023.
- **2.** Fabrication of optoelectronic device and sensors-hands-on experience (FODS-2019), Department of Physics, National Institute of Technology, Warangal, during 17th to 21th june.2019.
- 3. Workshop on Analytical Techniques SAIF and DST-New Delhi, Karnatak University Dharwad, 25^{th} to 27^{th} 2018.

4. One day workshop on Society Research and Development, Karnatak University Dharwad 19th February.

Personal Details

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Languages Known : Kannada, English & Hindi, and Telugu

References

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3	Dr. L. A. Shastri		
	Associate Professor		
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	<u>URL:https://scholar.google.co.in/citations?user=1ITjRoUA AAAJ&hl=en</u>		

Place: Dharwad Yours Sincerely

Date:	Dr. Mallikarjun Anandalli