

Dr. MALATESH S. PUJAR M.Sc, Ph.D.

Researcher, Teaching faculty
Dept of Physics, Karnatak University,
Dharwad, Karnataka, India - 580003.
Mob: +91-8884674834; +91-9449074834
E-Mail: malateshpujar014@gmail.com
malateshpujar@kud.ac.in



CAREER OBJECTIVE

Enthusiastic and fascinated to utilize the research knowledge, teaching and technical skills for development of organization, expose myself to new technical skills and to standardize them for making better nation.

Course	University	Institute	Specialization	Year of passing
Ph.D	Karnatak university Dharwad	Dept of Physics, K U Dharwad.	Materials science	Awarded on 17-11-2021
B.Ed.	Karnatak university Dharwad	P P G college Gadag	Science and Maths	2014-2015
M.Sc.	Mangalore university	Alva's College, Moodbidri	Physics (Condensed matter physics)	2012-2014
B.Sc.	Karnatak university Dharwad	J S S College Vidyagiri Dharwad	PME	2009-2012

EDUCATIONAL QUALIFICATION

Ph.D. Awarded on 17-11-21	Department of Physics, Karnatak University, Dharwad-580003, Karnataka, India.
Title	<i>"Synthesis, characterization of nanoparticles and their applications"</i>
Guide	Prof. Ashok H. Sidarai (ashok_sidarai@rediffmail.com)

PRESENT STATISTICS OF RESEARCH WORK

Total Published articles	17
Citations	81
h-index	4
i10-index	4

<https://orcid.org/0000-0001-8010-611X>

https://scholar.google.com/citations?hl=en&user=Is_gDeUQAAAAJ

RESEARCH FIELDS

Materials science: Synthesis of nanomaterials with different methods and contrastive studies of their properties for the water purification and biological applications.

Photocatalysis: Fabrication of bare and composite nanomaterials, optical studies and photoinduced dye degradation for water purification.

Fluorescence spectroscopy: Study of photophysical properties of organic derivatives, spectroscopic interaction of nanoparticles with synthesized derivatives.

INSTRUMENTS HANDELED/TECHNIQUAL SKILLS

- UV-VISIBLE Spectrophotometer and Fluorescence spectrophotometer for spectral measurements. Model: V-670 Jasco & HORIBA Fluoromax fluorescence spectrometer
- TCSPC for fluorescence lifetime measurement. Model: ISS 90021.
- FT-IR spectrometer for the study of bonding between elements. Model: Nicolet-6700.
- PCPDF-WIN software for the PXRD data analysis.
- Familiar with FESEM-EDX instruments for the morphological studies. Model: JSM-IT500 LA.
- INKSCAPE and imagej software for the marking and measuring the size of the nanoparticles obtained from TEM.
- Familiar with TGA & DSC instruments for the study of thermal properties.
- Model: TGA SDST Q600 & DSC Q20 V24.10.

JOURNALS AS REVIEWER

Journal name	Publication
Chemistry Select	Wiley
Journal of Cluster Science	Springer Publications
International Journal of Basic and Applied Sciences	InSc Publications

TEACHING EXPERIENCE:

- ✓ Working as Guest faculty/Teaching Assistant for M.Sc at Dept of Physics, K U Dharwad 580003, Karnataka, India, from March, 2020 to till date.
- ✓ Handled 4 M.Sc major projects from 2016 to 2021.
- ✓ Worked as Lecturer in Best P U Science college, Dharwad from 2014 – 2016.
- ✓ Evening tuition classes for PUC-I & II, JEE, NEET from 2014.

AWARDS AND HONORS

- **Young Achiever Award 2020** by Institute of Scholars for the article published in **Bulletin of Materials Science**.
- Awarded for the **University Research Studentship** for the doctoral research work from Karnatak University, Dharwad, from 23-03-2016 - 22-03-2019.

- One of my research articles has been awarded as the **BEST Research Paper** in **NCPCM 2018**, during Dec 27-28, 2018 at Indore.
- Selected as **Innovative Pitch Speaker** and **orally presented** a work in International Conference on Nanomaterials & Nanotechnology, Allahabad on 01-03, March, 2017.
- Secured **1st place** in **Science Working Model** competition in Phoneix Fest conducted by St.Philomena College, Puttur on jan-2014.
- State level **4th Rank** in **International Prathibha Science & Maths Exam: 2006-07**.

COLLABORATIONS

Name of the Professor	Institution/University
Prof. Shyam Kumar Vootla	Department of Microbiology and Biotechnology, K U Dharwad-580003 Karnataka, India.
Prof. R F Bhajantri	Department of Physics, K U Dharwad-580003 Karnataka, India.
Asst. Prof. Shirajahammad Hunagund	Department of Physics, SECAB I.E.T Vijapura-586109, Karnataka, India
Asst. Prof. Shivaraj Maidur	Department of Physics, HKBK College of Engineering, Bengaluru, Karnataka, India.
Asst. Prof. Delicia Baretto	School of Chemical Sciences, Goa university, Goa, India.
Dr. Sameer Kulkarni	Lecturer, GSS college, Belagavi, Karnataka, India.

LIFE MEMBERSHIP IN SCIENCE ASSOCIATIONS

Sl.No	Association Name	Membership Number
1.	International Association of Advanced Materials (IAAM)	IN-170791-191-94
2.	Indian Science Congress Association (ISCA)	L30758
3.	International Association of Engineers (IAENG)	214071
4.	The Society of Digital Information and Wireless Communications (SDIWC)	21460
5.	Institute of Scholars (InSc)	3293 YAA

SKILLS/SOFTWARES/TECHNIQUES

- PCPDF-WIN for XRD data analysis
- Nanosurf for analysis of AFM images,
- Origin 9 for graph and analysis,
- Chem sketch for molecular structure,
- Inkscape,
- Imagej for Graphical design,
- good knowledge in Basic computer, MS Office Tools, Excel.
- Initiative personality, stress management, time management, strong communication.

PUBLICATIONS IN SCOPUS INDEXED JOURNALS

Sl. No.	Authors	Journal name	Title, volume, year	Impact factor
1	Malatesh S. Pujar , S Khanpure, S M. Hunagund, Shyamkumar Vootla and A H. Sidarai	Journal of Sol-Gel Science and Technology	Multifunctional ZnO/CeO ₂ nanocomposites for Photoinduced dye degradation and Antibacterial activities	2.326
2	Malatesh S Pujar , S M Hunagund, Delicia A Barretto, V R Desai, Shivaprasadagouda Patil, Shyam Kumar Vootla and A H Sidarai	Bulletin of Materials Science, Springer	Synthesis of cerium-oxide NPs and their surface morphology effect on biological activities. Vol 43, issue 24. Pages 1-10.	1.783
3	Malatesh S. Pujar , and A H. Sidarai	Journal of Nano-Electronic Physics	Fabrication and interpretation of Zinc-Cerium Composites: Structural and Thermal Studies	0.61
4	V R. Desai, S M. Hunagund, Malatesh S. Pujar , M Basanagouda, J S. Kadadevarmath and A H. Sidarai	Journal of Molecular Liquids	Spectroscopic interactions of titanium dioxide nanoparticles With pharmacologically active 3(2H)-pyridazinone derivative	6.165
5	S M. Hunagund, Vani R. Desai, Delicia A. Barretto, Malatesh S. Pujar , J S. Kadadevarmath, Shyamkumar Vootla and A H. Sidarai	Journal of Photochemistry & Photobiology, A: Chemistry	Photocatalysis effect of a novel green synthesis gadolinium doped titanium dioxide nanoparticles on their biological activities	4.291
6	A Nadgir, Malatesh S. Pujar , V R Desai, A. H Sidarai.	Journal of Fluorescence	Re-Usage of waste drug as Molecular Chemosensor for Fe ³⁺ ion: Application towards Fluorescent ink.	2.217
7	V R. Desai, S M. Hunagund, Malatesh S. Pujar , M Basanagouda, J S. Kadadevarmath, A H. Sidarai	Journal of Fluorescence	Photophysical properties of a novel and biologically active 3(2H) pyridazinone derivative using solvatochromic approach	2.217

8	Aishwarya Nadgir, Malatesh S. Pujar , Vani R. Desai, Ashok H. Sidarai	Journal of Chemical Sciences	Photochemistry of an Alpha Lipoic Acid based drug and its application in dual sensing of Fe(III) and Pb(II) and Logic gates	1.573
9	Raghavendra K. Sali, Malatesh S. Pujar , Shivaprasadagouda Patil, Ashok H. Sidarai.	Advanced Materials Letters	Green Synthesis of ZnO and Ag-ZnO Nanoparticles using Macrotyloma Uniflorum: Evaluation of Antibacterial Activity	0.4
10	Malatesh S. Pujar , S M. Hunagund, V R. Desai, S Patil, and A H. Sidarai	AIP Conference Proceedings	One-step synthesis and characterizations of cerium oxide nanoparticles in an ambient temperature via Co- precipitation method.	0.4
11	Malatesh. S. Pujar , S M. Hunagund, R K. Sali, Patil and A H. Sidarai	AIP Conference Proceedings	Effective Photo degradation of Solochrome Black using Efficient Photo catalytic Nano Ceria.	0.4
12	Malatesh. S. Pujar , S M. Hunagund, R K. Sali, A Nadgir and A H. Sidarai	AIP Conference Proceedings	Biological and Photocatalytic Activities of ZnO NPs over Neutral red: Hydrothermal method.	0.4
13	R M.Santoshakumar, Malatesh S Pujar , M J Nirupama, and Sidarai H. A	AIP Conference Proceedings	Fluorescence quenching of anthracene by aniline in two solvents: S-V plot analysis.	0.4
14	A Nadgir, Malatesh S. Pujar , M Basanagouda, Raghavendra K. Sali, and A H. Sidarai	AIP Conference Proceedings	Quenching efficacy of TiO ₂ on novel pyridine derivative: A photophysical investigation	0.4
15	Shivaprasadagouda Patil, V R. Desai, M Basanagouda, Malatesh S. Pujar , and A H. Sidarai	AIP Conference Proceedings	Study of fluorescence quenching of Benzofuran derivative using zinc oxide NPs: Solvent effect	0.4
16	R K. Sali, Malatesh S. Pujar , A Nadgir, and A H. Sidarai	AIP Conference Proceedings	Photocatalytic activities of CuO nanorods over methyl orange: Hydrothermal method	0.4

RESEARCH PUBLICATIONS IN NATIONAL/INTERNATIONAL CONFERENCES

1. "Spectroscopic studies on newly synthesized BHP compound using solvatochromic Approaches"

Vani R. Desai, Shirajahammad M. Hunagund, **Malatesh S. Pujar**, Mahantesha Basanagouda, Jagadish S. Kadadevarmath and Ashok H. Sidarai
In *DAE- BRNS 6th Interdisciplinary symposium on materials chemistry (ISMC-2016)* December 06-10, 2016 at Bhabha atomic research center Mumbai, India.

2. "Analysis of fluorescence quenching of newly synthesized biologically active HMPP molecule by aniline"

Vani R. Desai, Shirajahammad M. Hunagund, **Malatesh S. Pujar**, Mahantesha Basanagouda, Jagadish S. Kadadevarmath and Ashok H. Sidarai
In Asia student photonics conference (*ASPC-2016*) December 12-14th, 2016, Manipal University, Manipal, India.

3. "Solvatochromic approaches for novel coumarin derivative"

Shirajahammad M. Hunagund, Vani R. Desai, **Malatesh S. Pujar**, Mahantesha Basanagouda, Jagadish S. Kadadevarmath and Ashok H. Sidarai
In *Asia student photonics conference (ASPC-2016)* December 12-14th, 2016, Manipal University, Manipal, India.

4. "Fluorescence quenching of biologically active coumarin derivative"

Shirajahammad M. Hunagund, Vani R. Desai, **Malatesh S. Pujar**, Mahantesha Basanagouda, Jagadish S. Kadadevarmath and Ashok H. Sidarai
In 9th annual KSTA conference, December 20 -21, 2016, Christ University, Bangaluru.

5. "Ground and excited state dipole moments of CHP molecule estimated using solvatochromic shift method"

Vani R. Desai, Shirajahammad M. Hunagund, **Malatesh S. Pujar**, Mahantesha Basanagouda, Jagadish S. Kadadevarmath and Ashok H. Sidarai,
In 104th Indian Science Congress (ISC-2017), Jan 3 - 7, 2017, Sri Venkateswara University, Tirupati, India.

6. "Synthesis and characterizations of Zinc oxide Nanoparticle"

Malatesh S. Pujar, Shirajahammad M. Hunagund, Vani R. Desai and Ashok H. Sidarai,

In National level conference on Advances in VLSI and Microelectronics, 27th Jan, 2017. P C Jabin Science College, Hubballi-31, Dharwad, Karnataka, India. (ISBN-978-81-931806-8-6).

PARTICIPATION AND PRESENTATIONS SEMINARS/CONFERENCES/WORKSHOPS

➤ **INTERNATIONAL**

1. Poster presented in **“104th Indian Science Congress”** on Jan 3 to 7, 2017, held at S. V. University, Tirupati, Andrapradesh, India.
2. e-Poster presented in **“International Conference on Nanomaterials & Nanotechnology”** 01st – 03rd March, 2017 at the VBRI, Saidabad, Allahabad, India.
3. Presented a poster in **62nd DAE Solid State Physics Symposium** held in BARC Centre on Dec 26-30, 2017 at Mumbai, India.
4. Poster presented in **Advanced Functional Materials for Energy, Environment and Health Care (AFMEEHC)** held on 18-20, March 2019, at Mysuru, Karnataka, India.
5. Participated as a delegate and presented a research paper in **International Conference on Physics of Materials & Nanotechnology (ICPN-2019)** held at Mangalore University during September 19-21, 2019.

➤ **NATIONAL**

1. **“Advances in Materials science” (SAMS-2016)** held on 22-NOV, 2013 Organized by Dept of Material science, Mangalore university. D K Karnataka, India.
2. **“CONDENSED MATTER PHYSICS AND APPLICATIONS- CMPA-2013”** Organized by Dept of Physics, Manipal Institute of Technology, Manipal, Karnataka, India.
3. **“Advances in VLSI and Microelectronics”** held on 27th Jan 2017 at P C Jbin Science college, Hubballi, Karnataka, India.
4. **“Current Topics in Condensed Matter Physics”** Organized by Department of Physics on 27-28, March 2017 at K U Dharwad, Karnataka, India.
5. **“Frontier Methods and Techniques for Probing Molecule and Materials”** Organized by Department of Physics on 21-22, March 2018 at K U Dharwad, Karnataka, India.
6. **National Conference on Physics and Chemistry of Materials (NCPCM 2018)** during Dec. 27-28th, 2018 at Devi Ahilya University, Indore.

➤ **WORKSHOPS**

1. **“SOLAR PHOTO VOLTAIC SYSTEMS”** held in St Aloysius College, Mangalore on 15,16-Feb,2013.
2. **“Revealing the Advances in Material Science”** at Sri Sairam Institution of Technology, Chennai held on 19th & 20th July 2016.
3. **“Society Research and Development”** held at Karnatak University Dharwad on 19th February, 2018.

P. G LEVEL PROJECTS COMPLETED AND UNDERTAKEN

- ✓ A project on **“Electrical Properties of Polyvinyl Alcohol Grafted Polyacrylic-Co-Polyaniline Blend”** Under the Guidance of Dr. Ramprasad a T. Ast. Professor, Department of Post Graduate Studies in Physics Alva's college Moodbidri, D K, Karnataka.

- ✓ A project on **“Digital Alarm clock Using Led”** Under the guidance of Dr. M R Rashinkar, J S S College Dharwad, Karnataka.
- ✓ Off the record, I have undertaken and guided the four major projects to the M.Sc students for the batch 2018-2021.
 - ❖ DC-DC voltage multiplier using Astable multivibrator as Schmitt trigger.
 - ❖ Generation and enhancement of electric energy using tidal energy.
 - ❖ Fundamental circuit for determination of dielectric constant of liquids: LM 331 and 555-Timer.
 - ❖ A simple approach towards the energy generation via series and parallel connected Piezo elements.
- ✓ Prepared and demonstrated few PUC Level models like TIDAL POWER PRODUCTION, WAVE MACHINE, ELEVATOR, etc...

PERSONAL DETAILS		PERMANENT ADDRESS
Sex	Male	S/O Shivanand Pujar Mailaralingeshwara Krupa, 3 rd Main, 6 th cross, Ward No-35, Hudco colony, Siddalinga nagar, GADAG-582103 Karnataka, India.
Marital status	Un-married	
Date of Birth	17.07.1991	
Nationality	INDIAN	
Languages known to speak	Kannada, English, Hindi, Telugu	
Languages known to write	Kannada, English, Hindi	

REFERENCES

Dr. S. S. Kubakaddi

Emeritus Professor
Department of Physics
K.L.E. Technological University
Hubballi-580031, Karnataka, India
Former Professor and Chairman, and Emeritus Professor,
Department of Physics, Karnataka University,
Dharwad-580003, Karnataka, India
Former Senior Associate,
Abdus Salam International Center for Theoretical Physics,
Trieste, Italy.
Email: sskubakaddi@gmail.com
+91-9980373274

Prof. S. M. Shivaprasad

Director, KSHEA Dharwad
Senior Scientist and
Professor at JNCASR,
Bengaluru - 560064, India
Email: smsprasad@jncasr.ac.in
+91-990038052

S. R. Inamdar, FRSC, U.K.

Faculty Advisor, SPIE student chapter Karnatak University, Dharwad
Sectional President, 101th ISCA-2014
Coordinator, UGC-CPEPA
Deputy Coordinator, CAS Phase-II.
Dept. of Physics,
Karnatak University, Dharwad,
Karnataka-580003. India.
Email: him_lax3@yahoo.com

Prof. Ashok H. Sidarai

Department of Physics
Karnatak University, Dharwad,
Karnataka-580003. India.
Email: ashok_sidarai@rediffmail.com
+91-9481528089.

I hereby declare that the information furnished above is true to the best of my knowledge.

Dr. Malatesh S. Pujar