




P.E.S. College of Engineering, Mandya-571401

(An Autonomous Institution, affiliated to VTU, Belagavi)



Faculty Profile

General

Name	Dr. Thejas Urs G	
Designation,	Assistant Professor	
Department & Affiliated Institution	Department of Physics, P.E.S. College of Engineering, Mandya-571401	
Research Area	Solid State Physics - Polymers and Polymer Composites	
Contact Number	+919900539434	
Email ID	thejasursg@pesce.ac.in; thejasursg@gmail.com	

Academic Profile

Educational Qualifications

Degree	College	University	Year of Passing	%ge	Class
Ph. D	Department of Studies in Physics	Mangalore University	2018	-	-
M. Sc.,	Department of Studies in Physics	Davangere University	2012	68.43	I - Class
B. Sc.,	NIE Science College, University of Mysore	University of Mysore, Mysuru	2010	55	II - Class

Professional Experience

Organization & Department	Designation	Period	Total Experience
Center for Materials Science, Vijnana Bhavan, University of Mysore	Senior Project Fellow (UPE Major Research Project)	19/11/2012 to 31/03/2019	6 Year 4 Months
Department of PG Studies in Physics, JSS College of Arts, Commerce and Science, Mysuru	Assistant Professor	10-10-2019 to 16/06/2020	8 Months
P.E.S. College of Engineering, Mandya	Assistant Professor	21-04-2021 to Till date	

Report on Academic and Research Activities

Academic Activities

Course/Topic Taught	Teaching Records (Details of courses taught)
B.E.	B.E.: Engineering Physics : Unit – I : Modern Physics & Quantum Mechanics, Unit – III : Electrical conductivity in metals & Semiconductors, Unit – V: Acoustics of Buildings B.E.: Practicals: 12 Experiments were completed in each semester in different branches

Research Guidance (Candidates Awarded/Pursuing Ph.D/M.Sc., Engg./M.Phil)

Degree	Ph.D.	M.Sc., Engg.	M. Phil
Awarded	Nil	Nil	Nil
Pursuing	Nil	Nil	Nil

Sponsored Research Projects (List of Projects taken up/completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Sanctioned	Grants Received
N/A	N/A	--	N/A

Research Publications in Refereed Journals and Conferences/Symposia

No. of Publications in	National	International
Journals	03	22
Conferences/Symposia	05	04

Other Important Responsibilities held in the College

Nil	Nil
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LIST OF PUBLICATIONS

Ph.D. Thesis Title– “*Studies on Characterization of Polymer Composites and Analysis of the Data with different Mathematical Models*”

Books (Edited)

Emergent Research on Polymeric and Composite Materials, R Somashekar and Thejas Urs G, 2017, IGI Global Publications, USA

Book Chapters

- *Thejas Gopal Krishne Urs, R Somashekar: Crystal Structure of Wild and Domestic Silk Fibres Using Linked-Atom Least-Squares Method. Handbook of Sustainable Polymers: Structure and Chemistry*, Ed: Vijay Kumar Thakur, Manju Kumari Thakur, **05/2016: pages 183. CRC Press.**
- *Thejas Gopal Krishne Urs, R Somashekar: Fibre Diffraction and Whole Powder Pattern Fitting in Polymers. Emergent Research on Polymeric and Composite Materials*, Ed: R Somashekar and Thejas Urs G, **09/2017: pages 1-37 IGI Global Publications, USA**

I. List of Papers published in National & International Journals:

1. G K Gowtham, G Thejas Urs, H Somashekarappa, R Somashekar, Preparation and Crystal Structure of Carbon soot: A new approach, *AIP Conference Proceedings*, 2020, 2265, 030164.
2. S. R. Madhuri, N. S. Namitha, M. B. Kusuma Urs, G. K. Gowtham, Thejas G. Urs, R. Somashekar, Modelling of X-ray patterns using Fourier transforms: application to nanomaterials, *Indian Journal of Physics*, 2018, Doi: 10.1007/s12648-018-1250-0.
3. Dinesha V Hegde, Mahesha C. B, Gowtham G. K, Thejas G. Urs, Nandaprakash M. B, Mahadevaiah D & Somashekar R, Studies on physical properties of wine palm and Roselle natural fibers, *Journal of Natural Fibers*, 2018, DOI: 10.1080/15440478.2018.1455619
4. H. T. Ananda, G. Thejas Urs and R. Somashekar, Characterization and microstructure of HPMC/Gly: AgNO₃ polymer composites, *AIP Conference Proceedings*, 2018, 1942, 040002
5. Thejas G. Urs, G. K. Gowtham, M. B. Nandaprakash, D. Mahadevaiah, Y. Sangappa, R. Somashekar, Determination of force constant and refractive index of a semiconducting polymer composite using UV/visible spectroscopy: a new approach, *Indian Journal of Physics*, 2017, 91(1) 53-56.
6. K. Hemalatha, G. Thejas Urs, D. Mahadevaiah, H. Somashekarappa, K. Byrappa, R. Somashekar: Effect of NiCuZnFe₂O₄ on the microcrystalline properties of PVA/CMC polymer blends. *Materials Research Innovations*, 2017, 21(2), 122-128.
7. Thejas G. Urs, Y. Sangappa, K. Byrappa, R. Somashekar: Determination of crystallite shapes in polymer composites using X-ray diffraction results. *AIP Conference Proceedings*, 2017, 1832, 040012.

8. Thejas Gopal Krishne Urs, KarthikBharath, SangappaYallappa, SomashekarRudrappa, Functional data analysis techniques for the study of structural parameters in polymer composites. *Journal of Applied Crystallography* 2016, 49(2), 594-605.
9. G Thejas Urs, Nanda Prakash, H T Ananda, RSomashekar: Radial distribution function of natural fibres and synthetic water soluble polymers using X-ray diffraction. *Indian Journal of Fibre and Textile Research* 2016, 41(2), 9-12.
10. ThejasUrs G., Y. Sangappa, R. Somashekar: Stochastic analysis of experimentally determined physical parameters of HPMC:NiCl₂ polymer composites. *AIP Conference Proceedings*, 2016, 1731, 040007.
11. K. Hemalatha, Mahadevaiah, G. K. Gowtham, G. ThejasUrs, H. Somashekarappa, R. Somashekar: Microstructural and electrical properties of PVA/PVP polymer blend films doped with cupric sulphate. *AIP Conference Proceedings* 2016, 1731(1), 070007.
12. Mahadevaiah, G. ThejasUrs, K. Byrappa, R. Somashekar: Effect of Microwave Irradiation on the Microstructural Properties of Bivoltine Silk Fibroin Films. *Procedia Engineering* 2016, 141, 53-58.
13. H. T. Ananda, G. Thejas Urs, R. Somashekar: Preparation and characterization of conductive PVA/Gly:Na₂SO₄ polymer composites. *Polymer Bulletin* 2015, 73(4), 1151-1165.
14. G ThejasUrs, H T Ananda, Nanda Prakash, K Byrappa, R Somashekar: Crystal and molecular structure of muga wild silk fibres based on [Ala-Gly] n sequence using LALS technique. *Indian Journal of Fibre and Textile Research* 2015, 40, 131-136.
15. K. Hemalatha, Mahadevaiah, ThejasUrs G, H. Somashekarappa, R. Somashekar: Spectroscopic analysis of PVA/CMC: NiCuZnFe₂O₄ polymer nanocomposites. *AIP Conference Proceedings* 2015, 1665, 070032.
16. Thejas Gopal Krishne Urs, Ananda H. T, Mahadevaiah, R. Somashekar: Spectroscopic studies of PVA/Gly:Na₂SO₄ polymer composites. *AIP Conference Proceedings* 2015, 1665, 040026.
17. Thejas G Urs, Radhika V. Hurkadli, R.V. Basavaraj, M. Niranjana, A Manjunath, R. Somashekar, Study of optical and conducting properties of FeCl₃ doped PVA polymers. *Progress in Crystal Growth and Characterization of Materials* 2014, 60(3-4), 87 - 93.
18. H Ananda, T Urs, Y Prakash, K Hemalatha, H Somashekarappa, R Somashekar: Microstructures and Electrical Properties of HPMC/PVP Polymer Blend Films Complex with Ferric Chloride (FeCl₃). *Material Science Research India* 2014, 11(2), 153-158.
19. M B Nanda Prakash, G ThejasUrs, H T Ananda, R Somashekar: 1-D Paracrystalline Model to Simulate a Bragg Reflection: Computation of Crystallite Size and Lattice Strain. *Crystal Structure Theory and Applications* 2014, 3(3), 48-55.
20. ThejasGopalKrishneUrs, Mahadevaiah, RudrappaSomashekar: Studies on Structural and Conducting Properties of Goethite Nanoparticles Doped HPMC Polymer Films. *Journal of Polymers* 2014, 2014, 201464

21. M. B. Nanda Prakash, G. ThejasUrs, H. T. Anand, R. Somashekar: Pair Correlation Studies of CdCl₂ Doped PVA Polymer Films Using X-ray Data. *AIP Conference Proceedings, 2014 1591 (1), 816-818.*
22. G. ThejasUrs, M. B. Nanda Prakash, H. T. Ananda, R. Somashekar: Radial Distribution studies on water soluble polymers using XRD line profile data. *AIP Conference Proceedings, 2014 1591 (1), 170-171*
23. Mahadevaiah, ThejasUrs, T Demappa, R Somashekar: Characterization of Zinc Nanoferrite Doped HPMC Polymers Using X-Ray Diffraction. *Journal of Nuclear Physics, Material Sciences, Radiation and Applications, 2014, 1(2), 201-205.*
24. Mahadevaiah, ThejasUrs, K Byrappa, R Somashekar: Preparation and Characterization of Mulberry Silk Fibroin Films. *International Annals of advanced Scientific Research 2014 1 (1), 001-007*
25. H T Ananda, ThejasUrs G, M B Nanda Prakash, R Somashekar: Characterization of HPMC/GLY: Na₂SO₄ Polymer Composite Using X-Ray Technique. *Bull. Pure Appl. Sci. 2013 32 (2), 165-173*
26. Nagaraja, E., A. S. Jagadisha, and H. S. Jayanna. Effect of gamma irradiation on structural and dc electrical properties of crfe₂o₄ ferrite. *Recent Advances in Materials Science and Biophysics (2018): 386.*

II. ListofPaperspublishedinNational&InternationalSymposium/Conferences:

1. ThejasUrs G, Gowtham G K, H Somashekarappa and R Somashekar, Structure-property relation in HPMC:CoCl₂ polymer composites using functional data analysis, *ActaCrystallographica Section A: Foundations and Advances, 2017, 73 (a2), c939.*
2. Gowtham G K, ThejasUrs G, Mahadevaiah D, K Byrappa, Somashekar R, Imaging of crystallite shapes in various silk forms using PXRD, *ActaCrystallographica Section A: Foundations and Advances, 2017, 73 (a2), c935.*
3. Manju V V, ThejasUrs G, Divakara S and R Somashekar, Imaging of crystalline regions in cotton fibers using powder XRD, *ActaCrystallographica Section A: Foundations and Advances, 2017 73 (a2), C564.*
4. M B Nanda Prakash, G ThejasUrs, H T Ananda, R Somashekar: Variation of Crystallite Ellipsoids for Varieties of Cotton Fibers Using Whole Powder Pattern Fitting Technique. *Polycon 2014, Mysore; 04/2014.*
5. Mahadevaiah, G ThejasUrs, K Byrappa, R Somashekar: Microstructural Parameters of Bivoltine Silk Films using X-Ray Diffraction Studies. *Polycon 2015, Mysore; 04/2014.*

III. Listof Awards:

Dec 2018 Award: 2018 IUCr *Young Scientist award* (AsCA 2018, Auckland)

Dec 2016 Award: Karnataka State Eligibility Test for Lectureship (**KSET**) May 2014

Scholarship:Scientific Exchange Scholar,Department of Physics and Astronomy, Wayne State University, Detroit - USA