

Dr. Niranjana. M, M.Sc., Ph.D. Physics.

Associate Professor and Head of the Department of Physics,
Jain Institute of Engineering, Davangere

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ORCID ID: <https://orcid.org/0000-0003-1455-2378>

Scopus Author ID: 57218518286

Web of Science Researcher ID: AAH-2899-2021

https://www.researchgate.net/profile/Niranjana_M

<https://scholar.google.co.in/citations?user=Jclr0nYAAAAJ&hl=en>

**Personal Details**

Name : **Dr. NIRANJANA M**

Date of birth : 29-06-1985

Education Details

Course	Board/Univ.	Place	Passed
B.Ed	Kuvempu University	Davangere	2008
M. Sc, MATHEMATICS	Kuvempu University	Shivamogga	2010
M. Sc, PHYSICS	Davangere University	Davangere	2012
Ph.D	Mangalore	Mangalore University Mangalagangothri- 574199	2014-2018

✪ **Thesis Title:** Study of Electrochemical and Electrode Performance of Conducting Polymer Composites for Battery Application.

Research Area: Polymer Composites and Polymer Electrolytes, Transport Property and Electrochemical properties of Polymer Electrolyte for Battery and Optoelectronic Device Applications, Electron Beam Irradiation, Radiation Effect on Polymeric Materials, Nanoparticles and Nanomaterials Synthesis, Polymer Biomaterials, Advanced materials, Quantum dots, etc.

Teaching Experience: 6 Years

- Worked as “**Physics Guest Faculty**” for **1 year** from 2012 to 2013 in Davanagere University, Davanagere.
- Worked as “**Physics Guest Faculty**” for **1 year** from 2018 to 2019 in Davanagere University, Davanagere.
- Worked as Assistant professor in the Department of Physics, Bapuji Institute of Engineering & Technology Davanagere-577004. Since from 2019 to 2023.
- Now I am working as Associate professor in the Department of physics, Jain Institute of Technology Davanagere-577005. Since from 2023 to till date.
- Research Experience along with project DST -SERB- Major Research Project “Study of optical properties in doped polymer Electrolyte” 9 years
- **Research Experience:** 2 Years- Junior Research Fellow (JRF)
2 Years- Senior Research Fellow (SRF)

Academic Experiences

- **Worked as NAAC Coordinator**
- **Worked as a Institute Coordinator for Universal Human Values (UHV)**
- **NBA Coordinator for Criteria -9**
- **Coordinator for AICTE Activity point cell**
- **Internal Coordinator for 1year B. E**

Project proposal and Sanction

- A VGST Project proposal has applied and Waiting for Final Approval from Vision group on Science and technology. Project Entitled “**Studies on structural and optical properties of PVA-PVC blends.**”

Computer Knowledge: MS WINDOWS, MS-WORLD, MS-EXCEL, MS POWERPOINT, WINDOWS family-MS-Office, INTERNET, BROWSER, ORIGIN, ETC.

Instruments of Handling:

- UV-Visible Spectroscopy
- FTIR (Fourier Transformation Infrared Ray Spectroscopy)
- LCR Meter- Impedance Analyzer
- Electrochemical Workstation, Cyclic Voltammetry (CV)
- FESEM
- DSC/TGA
- AFM (Atomic Force Microscopy), etc.

Scientific Memberships

- Member of “Indian Science Congress Association” (Membership No: A3931)

Research Statistics

RG Score	20.28
Publications	37
Reads	5,242
Citations	247
H-index	8
i10-index	8

Publication Highlights: Peer Reviewed Journals

1. A paper entitled “*Localized Polarons in In-situ Synthesized Polyaniline Nano Composites Improve the Morphology, and Thermal and Electrical Conductivity*” *RSC Advances*, 2016, 6, 115074 (IF 3.108) [ISSN No. 20462069].
M. Niranjana, L. Yesappa, S. P. Ashokkumar, H. Vijeth, S. Raghu, H. Devendrappa.
2. A paper entitled “*Optical and electrical studies of vanadium pentoxide doped polyaniline composite*” *AIP Conference Proceedings* 1832, 040010 (2017); DOI:10.1063/1.4980212. [ISSN No. 1551-7616].
M. Niranjana, L. Yesappa, S. P. Ashokkumar, H. Vijeth, Sharanappa Chapi, S. Raghu, and H. Devendrappa.
3. A paper entitled “*In-situ chemical synthesis of PANI Dodecylbenzene sulfonic acid doped vanadium pentoxide: Optical and electrical properties*” in *Advanced Materials Proceedings* 2017, 2(3), 184-188. DOI:10.5185/amp.2017/3010. [ISSN: 2002-4428].
Niranjana M, Sharanappa Chapi, Yesappa L, Raghu S, Devendrappa H.
4. A paper entitled “*Synthesis and dielectric properties of polyaniline/copper oxide nano composite in the presence of surfactant*” *Proceedings of Int. Conference RAMSB-2018*, Page 399-402. [ISBN 978-93-5291-953-6].
Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Vandana M, Basappa M, Devendrappa H.

5. A paper entitled ***“Surface Morphology and Improved Electrical Conductivity of Camphorsulfonic acid Surfactant Based PANI Nano Composite”*** AIP Conference Proceedings 1953, 030007 (2018). DOI: 10.1063/1.5032342. [ISSN No. 1551-7616].
M. Niranjana, L. Yesappa, S. P. Ashokkumar, H. Vijeth, and H. Devendrappa.

6. A paper entitled ***“Enhanced Optical and Electrochemical Properties of Polyaniline/Cobalt oxide Nano Composite”*** AIP Conference Proceedings 1953, 030224 (2018). DOI: 10.1063/1.5032559. [ISSN No. 1551-7616].
M. Niranjana, L. Yesappa, S. P. Ashokkumar, H. Vijeth, and H. Devendrappa.

7. A paper entitled ***“Microsphere Polyaniline/Dodecylbenzene Sulfonic acid composites for electrochemical performance”*** [ISSN No. 1551-7616].
M. Niranjana, S. Chapi, K. Archana, S. Raghu, Devendrappa H

8. A paper entitled ***“Enhanced the thermal Properties of camphorsulfonic acid surfactant based PANI nanocomposite”*** (2020).
M Niranjana, Yesappa L, Ashokkumar S P, Vijeth H, Devendrappa H, Vrushabhendrappa Y, and Basavarajappa K S.

9. A paper entitled ***“ Enhanced Optical and thermal Properties of Polyaniline/Copper Oxide Nanocomposite in the presence of Camphorsulfonic acid Surfactant”*** (2020).
M Niranjana, Yesappa L, Devendrappa H, Sathisha S, Ashokkumar S, P, Vijeth H.

10. A paper titled ***“Optical Properties and Ionic Conductivity Studies of 8MeV Electron Beam Irradiated Poly (vinylidene fluoride-co- hexafluoropropylene)/LiClO₄ Electrolyte Film for Opto-Electronic Applications”*** RSC Advances, 2018, 8, 15297–15309. (IF 3.108). DOI: 10.1039/c8ra00970h. [ISSN No. 20462069].
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Basappa M, Jishnu Dwivedi, V C Petwal, Ganesh S, Devendrappa H.

11. A paper titled ***“The Modified Thermal, Dielectric and Electrical Conductivity of PVDF-HFP/LiClO₄ Polymer Electrolyte Films by 8 MeV Electron Beam Irradiation”***. ACS Omega 2018, 3, 14188–14200, DOI: 10.1021/acsomega.8b01097. [ISSN 2470-1343].
Yesappa L, **Niranjana M**, Ashokkumar S, Vijeth H, Vandana M, Ganesh Sanjeev, Devendrappa H.

12. A paper titled ***“Increased Porous Morphology and Thermal Degradation of Electron Beam Irradiated PVDF-HFP/LiClO₄ Polymer Electrolyte”***. Radiation effects and defects in solids, 173 (3-4), 1-7, 2018. DOI: 10.1080/10420150.2018.1486840. [ISSN No. 10420150].
Yesappa L, **Niranjana M**, Ashokkumar S, Ganesh Sanjeev, Devendrappa H.

13. A paper titled ***“Investigation of the Structure, Optical and Electrical Properties of Lithium Perchlorate doped Polyaniline Composite: Aloe Vera used as a Bio-Plasticizer”*** *Journal of Electronic Materials*. 46(12), 6965-6979, 2017. (IF 1.579). DOI: 10.1007/s11664-017-5724-1. [ISSN No. 1543-186X].
Yesappa L, **Niranjana M**, Ashokkumar S, Vijeth H, Sharanappa C, Devendrappa H.

14. A paper titled ***“Characterization, Electrical Conductivity and Electrochemical performance of Polyaniline-LiClO₄-CuO Nano Composite for Energy Storage Applications”***. *Polymer-Plastics Technology and Engineering*- 57, 2018,1466175
DOI: 10.1080/03602559.2018.1466175. (IF 1.232) [ISSN No. 03602559].
Yesappa L, **Niranjana M**, Ashokkumar S, Vijeth H, Raghu S, Devendrappa H.

15. A paper entitled ***“Flexible and high energy density solid-state asymmetric supercapacitor based on polythiophene nanocomposites and charcoal”***. *RSC Advances*, 2018, 8, 31414–31426. DOI: 10.1039/c8ra06102e. [ISSN No. 20462069].
Vijeth H, Ashokkumar SP, Yesappa L., **Niranjana M.**, Vandana M. Devendrappa H.

16. A paper entitled ***“Camphor Sulfonic Acid Assisted Synthesis of Polythiophene Composite for High Energy Density All-Solid-State Symmetric Supercapacitor”***. *Journal of Materials Science: Materials in Electronics*, 2019, pp 1-14.
DOI: 10.1007/s10854-019-01060-2 [ISSN No. 1573-482X].
Vijeth H; Ashokkumar S P; Yesappa L; **Niranjana M**; Vandana M; H. Devendrappa.

17. A paper entitled ***“Structure, morphology and optical studies of Li⁺ doped polyaniline composite”*** AIP Conference Proceedings. 1832, 040011 (2017).
DOI:10.1063/1.4980213.[ISSN No.1551-7616].
L. Yesappa, **M. Niranjana**, S. P. Ashokkumar, Vijeth and H. Devendrappa

18. A paper entitled ***“Optical absorption and morphology of biointercalated polyaniline composites”*** in *Advanced Materials Proceedings* 2017, 2(7), 436-439.
DOI: 10.5185/amp.2017/707. [ISSN: 2002-4428].
Yesappa L, **Niranjana M**, Sharanappa Chapi, Archana K, Raghu S, Devendrappa H.

19. A paper entitled ***“Morphology, Optical and Ionic Conductivity Studies of Electron Beam Irradiated Polymer Electrolyte Film”*** AIP Conference Proceedings 1942, 110003 (2018); DOI: 10.1063/1.5028986. [ISSN No. 1551-7616].
Yesappa L, Ashokkumar SP, Vijeth H, **Niranjana M**, Vandana M, Ganesh S, Devendrappa H.

20. A paper entitled ***“Electron Beam Irradiated Polymer Electrolyte Film: Morphology, Dielectric and AC Conductivity Studies”*** AIP Conference Proceedings 1953, 050006 (2018). DOI: 10.1063/1.5032661. [ISSN No. 1551-7616].
L. Yesappa, **M. Niranjana**, H. Vijeth, S. Ganesh, and H. Devendrappa.

21. A paper entitled ***“Synthesis, Characterization and Absorption Study of Aloe Vera doped Polyaniline Bio-Composite”*** Materials Today: Proceedings 5 (2018) 21076–21081. [ISSN 2214-7853].
Yesappa L, **Niranjana M**, Ashokkumar SP, Vijeth H, Sharanappa C, Raghu S, Devendrappa H.

22. A paper entitled ***“Structure, dielectric, thermal and I-V studies of electron beam irradiated PVDF-HFP/LiClO₄ electrolyte film”*** AIP Conference Proceedings 1953, 050059 (2018); DOI: 10.1063/1.5032714. [ISSN No. 1551-7616].
L. Yesappa, **M. Niranjana**, S. P. Ashokkumar, H. Vijeth, M. Basappa, S. Ganesh, and H. Devendrappa.
23. A paper entitled ***“Electron beam irradiated polyaniline/liclo₄ composite: structure, morphology studies”*** Proceedings of Int. Conference RAMSB-2018, Page 396-398. [ISBN 978-93-5291-953-6].
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Vandana M ,Ganesh Sanjeev, Devendrappa H.

24. A paper entitled ***“Electron Beam irradiation effect on Structure, Morphology and, Optical Properties PVDF HFP/PEO Blend polymer electrolyte films”*** in Matter: Int. J. Scie and Tech Conf. Proc. 2018. [ISSN No. 2454-5880].
L. Yesappa, **M. Niranjana**, S. P. Ashokkumar, H. Vijeth, M. Vandana, M. Basappa, Jishnu Dwivedi, V. C. Petwal, G. Sanjeev and H. Devendrappa.

25. A paper entitled ***“Surfactant assisted surface morphology and thermal properties of polythiophene composites”*** AIP Conference Proceedings 1849, 020043 (2017). DOI:10.1063/1.4984190. [ISSN No. 1551-7616].
H. Vijeth, **M. Niranjana**, L. Yesappa,. Raghu, S. P. Ashokkumar, and H. Devendrappa.

26. A paper entitled ***“Polythiophene nanocomposites as high performance electrode material for supercapacitor application”*** AIP Conference Proceedings 1942, 140017 (2018); DOI: 10.1063/1. 5029148. [ISSN No. 1551-7616].
Vijeth H, Yesappa L, **Niranjana M**, Ashokkumar SP, Devendrappa H.

27. A paper entitled ***“Synthesis and characterization of graphene quantum dots-silver nanocomposites”*** AIP Conference Proceedings 1942, 050046 (2018). DOI:10.1063/1.5028677. [ISSN No. 1551-7616].
Vandana M, Ashokkumar SP, Vijeth H, **Niranjana M**, Yesappa L, Devendrappa H.

28. A paper entitled ***“PEO/PVP blend polymer electrolytes: structural and optical property studies”*** Proceedings of Int. Conference RAMSB-2018, Page 441-444. [ISBN 978-93-5291-953-6].
Basappa M, Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Devendrappa H.

29. A paper entitled ***“Structural and surface morphology of Methylene red dye doped PMMA films”*** Proceedings of Int. Conference RAMSB-2018, Page 392-395. [ISBN 978-93-5291-953-6].
Vijeth H, Yesappa L, **Niranjana M**, Ashokkumar S P, Vandana M, Devendrappa H.

30. A paper entitled ***“Structural and Optical Band Gap of PEO/PVP Polymer Blend”*** AIP Conference Proceedings 1553, 140045 (2018). DOI: 10.1063/1.5033220. [ISSN No. 1551-7616].
M. Basappa, L. Yesappa, **M. Niranjana**, S. P. Ashokkumar, M. Vandana, H. Vijeth, and H. Devendrappa.

31. A paper entitled ***“Investigation on Structural, Optical and Electrical Properties of Polythiophene-Al₂O₃ Composites”*** AIP Conference Proceedings 1553, 050008 (2018). DOI: 10.1063/1.5032663. [ISSN No. 1551-7616].
H. Vijeth, L. Yesappa, **M. Niranjana**, S. P. Ashokkumar, and H. Devendrappa.

32. A paper entitled ***“Electrical Conductivity and Morphology of Electrochemical Synthesized Polyaniline/CuO Nano Composites”*** AIP Conference Proceedings 1553, 030222 (2018). DOI: 10.1063/1.5032557. [ISSN No. 1551-7616].
S. P. Ashokkumar, L. Yesappa, H. Vijeth, **M. Niranjana**, and H. Devendrappa

33. A paper entitled ***“Surface Morphology and Electrochemical Studies on Polyaniline/CuO Nano composites”*** AIP Conference Proceedings 1553, 030095 (2018). DOI: 10.1063/1.5032430. [ISSN No. 1551-7616].
S. P. Ashokkumar, H. Vijeth, L. Yesappa, **M. Niranjana**, M. Vandana, M. Basappa, and H. Devendrappa.

34. A paper entitled ***“Study of optical and conducting properties of FeCl₃ doped PVA polymers”*** in Progress in Crystal Growth and Characterization of Materials 60 (2014) 87-93.
Thejas Urs. G, **Niranjana M**, Manjunath A, Somashekar R.

35. A paper entitled ***“Synthesis and characterization of nanocomposite polymer blend electrolyte thin films by spin-coating method”*** in AIP Conference Proceedings 080010(2016).
Sharanappa Chapi, **Niranjana M**, Devendrappa H.

36. A paper entitled ***“Structure, morphology, thermal and electrochemical studies of electrochemically synthesized polyaniline/copper oxide nanocomposite for energy storage devices”*** Materials Research Express, 2019, 6, 125557
<https://doi.org/10.1088/2053-1591/ab5dde>.
 S. P. Ashokkumar, , L. Yesappa, H. Vijeth, **M. Niranjana**, M. Vandana, and H. Devendrappa.
 37. A paper entitled ***“Electrochemically synthesized polyaniline/copper oxide nano composites : To study optical band gap and electro chemical performance for energy storage devices”*** Inorganic chemistry communication 2020, 115. 107865.
<https://doi.org/10.1016/j.inoche.2020.107865>.
 S. P. Ashokkumar, , L. Yesappa, H. Vijeth, **M. Niranjana**, M. Vandana, and H. Devendrappa
 38. A paper entitled ***“Camphor sulfonic acid assisted synthesis of polythiophene composites for high energy density all -solid - state symmetric supercapacitor ”***
 Journal of Materials Science: Materials in electronics.<https://doi.org/10.1007/s.108544-019-01060-2>.
 H. Vijeth. S. P. Ashokkumar · L. Yesappa · **M. Niranjana** · M. Vandana · H. Devendrappa.
 39. A paper entitled ***“Influence of nickel oxide nanoparticle on the structural, electrical and dielectric properties of polypyrrole nanocomposite”***
 AIP Conference Proceedings 2142, 150029 (2019); <https://doi.org/10.1063/1.5122578>
 H. Vijeth, S. P. Ashok Kumar, L. Yesappa, **M. Niranjana**, M. Vandana, and H. Devendrappa
 40. A paper entitled ***“ Electron Beam Irradiation Effect on Polymer Blend Electrolyte Films: Thermal and Conductivity Studies”*** (2020).
 H Devendrappa, Yesappa L, Ashokkumar S. P, Vijeth H, Vandana M, Basappa M, and **M. Niranjana**.
 41. A paper entitled ***“ Structure, Morphology and Optical Properties of CuO nano particles immersed PANI/Li Composite”*** (2020).
 H Devendrappa, Yesappa L, Ashokkumar S P, Vijeth H, and **M. Niranjana**
- Presentations in International/National conference/symposia**
-
1. Participated and Presented a Paper on “Microsphere Polyaniline/dodecylbenzene sulfonic acid composites for electrochemical performance” Presented a paper in Rainsat-2015 held at sathyabama university, **chennai**, from 8th-10th july 2015.
M. Niranjana, S. Chapi, K. Archana, S. Raghu, Devendrappa H

2. Participated and presented a paper on “In-Situ chemical synthesis and characterization of Polyaniline dodecylbenzene sulfonic acid doped nano composite” Presented a paper in Rainsat-2015 held at sathyabama university, chennai, from 8th-10th july 2015.
M. Niranjana, S. Chapi, K. Archana, S. Raghu, Devendrappa H
3. Participated and presented a paper on “Study of Structural and Thermal Properties of Polyaniline-V₂O₅ Composites” conference on Nanoscience, Nanotechnology & Advanced Materials in **Visakapatnam**, 14th – 17th December 2015. (Poster presentation given)
Niranjana M, Sharanappa Chapi, Raghu S, Devendrappa H. International
4. Participated and presented a paper on “Influence of Zinc Nanoparticles Concentration on the properties of Poly(ethyleneoxide)/Poly(vinylpyrrolidone)/Zinc oxide polymer Nanocomposites” International conference on Nanoscience, Nanotechnology & Advanced Materials in Visakapatnam, 14th – 17th December 2015. (Poster presentation given)
Niranjana M, Sharanappa Chapi, Devendrappa H
5. Participated and presented a paper on “Synthesis and Characterization of nanocomposite polymer blend electrolyte thin films by spin-coating method” Sharanappa Chapi, **Niranjana M**, Devendrappa H. In 60th DAE- Solid State Physics Symposium – 2015 Diamond Jubilee Year Dec 21-25, 2015 Amity University UP, **Noida**. (Poster Presentation given)
6. Participated and presented a paper on “Optical Absorption and Morphology of Bio-Intercalated Polyaniline Composite” in International Conference on Materials Science & Technology (ICMTECH-2016) held at Conference Center, University of Delhi, Delhi-110007, India on 01-04 March, 2016
Yesappa L, **Niranjana M**, Sharanappa Chapi, Archana K, Raghu S, Devendrappa H.
7. Participated and presented a paper on “Structure, Morphology and Optical Bandgap studies of CuO nano particles added Li/PANI nanocomposite” in DAE-BRNS 6th Interdisciplinary Symposium on Materials Chemistry (ISMC-2016) held at Chemistry Division Bhabha Atomic Research Centre Mumbai-INDIA on 6-10 Dec 2016.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Raghu S and Devendrappa H*.
8. Participated and presented a paper on “Structure, Morphology and Optical Studies of Li⁺ doped Polyaniline Composite” in 61th DAE Solid State Physics Symposium (DAE SSPS 2016) held at KIIT University, Bhubaneswar, Odisha on 26-30 Dec 2016.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Sharanappa C, Raghu S, Devendrappa H*

9. Participated and presented a paper on “Synthesis, Characterization, Thermal and Temperature dependent Conductivity Studies of Lithium doped Polyaniline Composite” in 4th International Conference on Nanoscience and Nanotechnology (ICONN2017) held at SRM University, Chennai, Tamilnadu during 9-11 Aug 2017.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Devendrappa H*.
10. Participated and presented a paper on “Surfactant Assisted Surface morphology and Thermal Properties of Polythiophene Composites” in International conference on light (Optics'17) held at Calicut, Kerala during 9-11 Jan2017. Vijeth, Ashokkumar SP, Yesappa L, **Niranjana M**, Devendrappa H*.
11. A National Conference on Reaching the unreached through science and technology: Recent advances in physics, chemistry, mathematical and biological sciences for energy, health and environment hosted by Indian Science Congress Association held at Mangala Auditorium, Mangalore University, Mangalagangothri-574199 during 8-9th, 2017. Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Devendrappa H
12. Participated and presented a paper on “Increased Porous Morphology and Thermal Degradation of Electron Beam Irradiated PVDF-HFP/LiClO₄ Polymer Electrolyte” in International Conference on 'Accelerators in Materials and Medical Sciences' 2017 (ICAMMS-2017) held at Amity University, Dubai Campus, Dubai during 5-7 Oct 2017. Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Ganesh S, Devendrappa H*.
13. Participated and presented a paper on “Morphology and Ionic Conductivity Studies of PVDF HFP/LiClO₄ Electrolyte Film Before and After Electron Beam Irradiation” in International Conference on Advances in Polymer Science & Technology (APA-2017) held at Radisson Blu Hotel, New Delhi, during 23-25 Nov 2017.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Devendrappa H.
14. Participated and presented orally on “Structural and Optical Property Studies in 8 MeV Electron Beam Irradiated PVDF HFP Doped with LiClO₄ Electrolyte Film” in International Conference on Advances in Polymer Science & Technology (APA-2017) held at Radisson Blu Hotel, New Delhi, during 23-25 Nov 2017.
Yesappa L, **Niranjana M**, Ashokkumar SP, Vijeth H, Devendrappa H.
15. Participated and presented a paper on “Synthesis, Characterization and Absorption Study of Aloe Vera doped Polyaniline Bio-composite ” in International Conference on Smart Engineering Materials (ICSEM-2016) held at R V College of Engineering, Bengaluru - 560 059 during 20 - 22 October 2016.
Yesappa L, Vijeth H, **Niranjana M**, Sharanappa C, Raghu S, Ashokkumar S, Devendrappa H*.

16. Participated and presented a paper on “Structure, Dielectric, Thermal and I-V Studies of Electron Beam Irradiated PVDF-HFP/LiClO₄ electrolyte film” in 2nd International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Basappa M, Ganesh S, Devendrappa H.
17. Participated and presented a paper on “Electron Beam Irradiated Polymer Electrolyte Film: Morphology, Dielectric and AC Conductivity Studies” in 2nd International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Ganesh S, Devendrappa H*.
18. Participated and presented a paper on “Morphology, Optical and Ionic Conductivity Studies of Electron Beam Irradiated Polymer Electrolyte Film” in 62nd DAE Solid State Physics Symposium (DAE SSPS 2017) held at BARC, DAE Convention Centre, Anushaktinagar, Mumbai, Maharashtra on 26-30 Dec 2017.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Ganesh S. Devendrappa H.
19. Participated and presented a paper on “Electron beam irradiated polyaniline/liclo₄ composite: structure, morphology studies” in International Conference on Recent Advanced Materials Science and Biophysics (RAMSB-2018) held at Dept of Physics, Mangalore University Mangalore, Karnataka during 23-25 January 2018.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Vandana M ,Ganesh S, Devendrappa H*.
20. Participated and presented a paper on “Electron Beam Irradiation Effect on Structure, Morphology and Optical Properties of PVDF-HFP/PEO Polymer blend electrolytes” in 4th International Conference on Application of RadiotraCers and Energetic Beams in Sciences (ARCEBS-2018) held at Ffort Raichak, Kolkata during 11-17 November 2018 organized by Saha Institute of Nuclear Physics (SINP) Kolkata.
Yesappa L, Ashokkumar SP, Vijeth H, Vandana M, Basappa M, **Niranjana M**, Ganesh S, Devendrappa H*.
21. National Conference on Nanomaterials for biomedical applications (NBA-2017) on 16th March 2017 at Yenepoya University, Mangalore.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Devendrappa H.
22. Participated in a National Conference on “Particle Accelerators in Interdisciplinary Research (PAIR)” held at Dept. of physics, Mangalore University, Mangalagangothri during 11-13th, April 2017.
Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Devendrappa H.

23. Participated and presented a paper entitled “Ternary Polyaniline Nano Composites for High Performance of Super capacitor Applications” presented in ICMTech-2016 International Conference on Material Science & Technology was held at University of Delhi, Delhi from 1-4th March 2016.
Niranjana M, Sharanappa Chapi, Yesappa L, Archana K Raghu S, Devendrappa H.
24. Participated and presented a paper entitled “In-Situ Chemical Synthesis of PANI Dodecylbenzene Sulfonic Acid Doped Vanadium pentoxide: Optical and Electrical Properties ” presented in ICTmech-2016 International Conference on Material Science & Technology was held at, University of Delhi, Delhi from 1-4th March 2016.
Niranjana M, Sharanappa C, Yesappa L, Archana K, Raghu S and Devendrappa H.
25. Participated and presented a paper on “Optical and electrical studies of vanadium pentoxide doped polyaniline composite” in 61th DAE Solid State Physics Symposium (DAE SSPS 2016) held at KIIT University, Bhubaneswar, Odisha on 26-30 Dec 2016.
Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Sharanappa C, Raghu S, Devendrappa H.
26. Participated and presented a paper on “Study of Structural and Thermal Properties of Polyaniline-V₂O₅ composites” in 4th International Conference on Nanoscience and Nanotechnology (ICONN2017) held at SRM University, Chennai, Tamilnadu during 9-11 Aug 2017.
Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Devendrappa H.
27. Participated and presented a paper on “Lowering Optical Band Gap, Structure and Surface Morphological Studies of Polyaniline Nano composites” in 4th International Conference on Nanoscience and Nanotechnology (ICONN2017) held at SRM University, Chennai- Tamilnadu during 9-11 Aug 2017.
Ashokkumar S P, Yesappa L, **Niranjana M**, Vijeth H, Devendrappa H.
28. Participated and presented a paper on “Optical, Electrical and Electrochemical Studies of copper oxide nanoparticles embedded polyaniline nanocomposites” in International Conference on Advances in Polymer Science & Technology (APA-2017) held at Radisson Blu Hotel, New Delhi, during 23-25 Nov 2017.
Niranjana M, Yesappa L, Ashokkumar SP, Vijeth H, Devendrappa H.
29. Participated and presented a paper on “Structural and Thermal Properties of Polyaniline/ Copper Oxide Nano Composites” in International Conference on Advances in Polymer Science & Technology (APA-2017) held at Radisson Blu Hotel, New Delhi, during 23-25 November 2017.
Ashokkumar S P, Vijeth H, Yesappa L, **Niranjana M**, Devendrappa H.

30. Participated and presented a paper on “Surface Morphology and Improved Electrical Conductivity of Camphorsulfonic acid Surfactant Based PANI Nano Composite” in 2nd International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Devendrappa H.
31. Participated and presented a paper on “Enhanced Optical and Electrochemical Properties of Polyaniline/Cobalt oxide Nano Composite” in 2nd International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Basappa M, Devendrappa H.
32. Participated and presented a paper on “Electrical Conductivity and Morphology of Electrochemical Synthesized Polyaniline/CuO Nano Composites” in 2nd International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
Ashokkumar S P, Yesappa L, Vijeth H, **Niranjana M**, Devendrappa H.
33. Participated and presented a paper on “Surface Morphology and Electrochemical Studies on Polyaniline/CuO Nano composites” in 2nd International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 Nov. 2017.
Ashokkumar SP, Vijeth H, Yesappa L, **Niranjana M**, Vandana M, Basappa M, Devendrappa H.
34. Participated and presented a paper on “Structural and Optical Band Gap of PEO/PVP Polymer Blend” in 2nd International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
Basappa M, Yesappa L, **Niranjana M**, Ashokkumar S P, Vandana M, Vijeth H, Devendrappa H.
35. Participated and presented a paper on “Investigation on Structural, Optical and Electrical Properties of Polythiophene-Al₂O₃ Composites” in 2nd International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
Vijeth H, Yesappa L, **Niranjana M**, Ashokkumar S P, Devendrappa H.
36. Participated and presented a paper on “Polythiophene nanocomposites as high performance electrode material for supercapacitor application” in 62nd DAE Solid State Physics Symposium (DAE SSPS 2017) held at BARC, DAE Convention Centre, Anushaktinagar, Mumbai- Maharashtra on 26-30 Dec 2017.
Vijeth H, **Niranjana M**, Yesappa L, Ashokkumar S P, Devendrappa H.

37. Participated and presented a paper on “Synthesis and characterization of graphene quantum dots-silver nanocomposites” in 62nd DAE Solid State Physics Symposium (DAE SSPS 2017) held at BARC, DAE Convention Centre, Anushaktinagar, Mumbai, Maharashtra on 26-30 Dec 2017.
Vandana M, Ashokkumar SP, Vijeth H, **Niranjana M**, Yesappa L, Devendrappa H.
38. Participated and presented a paper on “Synthesis and dielectric properties of polyaniline/copper oxide nano composite in the presence of surfactant” in International Conference on Recent Advanced Materials Science and Biophysics (RAMSB-2018) held at Dept of Physics, Mangalore University Mangalore, Karnataka during 23-25 January 2018.
Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Vandana M, Basappa M, Devendrappa H.
39. Participated and presented a paper on “PEO/PVP blend polymer electrolytes: structural and optical property studies” in International Conference on Recent Advanced Materials Science and Biophysics (RAMSB-2018) held at Dept of Physics, Mangalore University Mangalore, Karnataka during 23-25 January 2018.
Basappa M, Yesappa L, **Niranjana M**, Ashokkumar S P, Vijeth H, Devendrappa H.
40. Participated and presented a paper on “Structural and surface morphology of Methylene red dye doped PMMA films” in International Conference on Recent Advanced Materials Science and Biophysics (RAMSB-2018) held at Dept of Physics, Mangalore University Mangalore, Karnataka during 23-25 January 2018.
Vijeth H, Yesappa L, **Niranjana M**, Ashokkumar S P, Vandana M, Devendrappa H.
41. Presented a paper on “Structure, Morphology, Thermal and Electrochemical Studies of Electrochemically Synthesized Polyaniline/Copper Oxide Nanocomposite for energy storage device” in Nanotech France 2019 Int. Conference and Exhibition held at Palais des Congrès d'Issy Issy-Les-Moulineaux, Paris, France during 26 - 28 June 2019.
Ashokkumar SP, Yesappa L, Vijeth H, **Niranjana M**, Vandana M, Devendrappa H.
42. Presented a paper on “Enhanced Optical and thermal Properties of Polyaniline/Copper Oxide Nanocomposite in the presence of Camphorsulfonic acid Surfactant” ICPN-2019 Int. Conference on physics of materials & Nanotechnology, held at Mangalore university during 19 - 21 September 2019.
Niranjana M*, Yesappa L, Devendrappa H, Manjunath D, sathisha S
43. Presented a paper on “Enhanced the thermal Properties of camphorsulfonic acid surfactant based PANI nanocomposite” ICPN-2019 Int. Conference on physics of materials & Nanotechnology, held at Mangalore university during 19 - 21 September 2019.
Niranjana M*, Yesappa L, Devendrappa H, Vrushabhendrappa Y, Rangaswamy B.E, Basavarajappa K.S, Geetha V.K,

44. Presented a paper on “Electron beam irradiation effect on polymer blend electrolyte films: Thermal and Conductivity studies” ICPN-2019 Int. Conference on physics of materials & Nanotechnology, held at Mangalore university during 19 - 21 September 2019.
Yesappa L, **Niranjana M**, Devendrappa H,
45. Presented a paper on “Structure morphology and optical properties of CuO nano particle immersed PANI/Li Composite” ICPN-2019 Int. Conference on physics of materials & Nanotechnology, held at Mangalore university during 19 - 21 September 2019.
Yesappa L, **Niranjana M**, Devendrappa H,
46. Presented a paper on *“Optical and thermal properties of Copper Oxide doped polyaniline Nanocomposites.”* national conference on Emerging Trends, Innovations and Applications in Science and Technology held on 1st October 2019 at Nagarjuna college of Management studies (NCMS). Chickballapur.
Niranjana M, Yesappa L, Thejas urs G, Gowtham G k, Nagesha R, Sandeep K M.

Seminar/Workshop/Training course attended

1. Workshop on “Application of Matlab and Simulink”, Department of studies in Electronics, Mangalore University, Mangalagangothri during 26th and 27th August 2014.
2. Seminar on One day User Awareness Programme on Shodhganga and Anti-Plagiarism Software iThenticate/Turnitin on 12th february, 2015 at Mangalore University.
3. Orientation Workshop on Radiation – Its Applications in Physical, Chemical and Life Sciences on June 24 –25, 2015 at Mangalore University.
4. Seminar on “Radiation and Radioisotopes: Tools for scientific Research”. on 28th April 2014, at CARRT, Mangalore University, Mangalagangothri.
5. National workshop on “Blood Irradiation and Its Application in Transfusion Medicine”. Mangalore University, Mangalagangothri. Dated 17th October 2015.
6. Participated in the National Seminar & Workshop on Function Nanomaterials for Energy, Environment and Health organized by Mangalore University, Mangalagangothri on 21st and 22nd March 2016.
7. Participated in the National workshop on Emerging Targets and Biomarkers in Cancer Therapy National Workshop on 16-18 May, 2016 at Mangalore University.

8. Participated in the National Seminar on “Inter-disciplinary Research Challenges and Opportunities” held at Mangalore University, Mangalagangothri on October 18, 2016.
9. Participated in the Per-Conference TUTORIALS of the International conference on International conference on smart engineering materials organized by R.V College of Engineering, Bengaluru during 20-22 october-2016.
10. Participated in the “Emerging Solar PV Technology Applications For Academic” Conducted at Mangalore University on 3rd December 2016 at Mangalore University.
11. Participated in a seminar on “Engineering Education & Research Seminar” held at The Gateway Hotel, Mangalore on February 09, 2017.
12. A Global Initiative of Academic Networks (GIAN) programme on “NANOFIBRES AND THEIR APPLICATIONS” held at CARRT Mangalore University Mangalore from 27th Feb. to 6th March 2017.
13. Participated in an international school on “International School on Ion beam in Energy Materials” on 12-18 July, 2018 at Inter University Accelerator Centre (IUAC), New Delhi India.
14. Advanced Function Materials for Energy, Environment and Health care(AFMEEHC).Organised by CENTER FOR MATERIALS SCIENCE FOR EXCELLENT. held Mysuru during 18-20, March 2019.
15. National seminar on "Enhancement of Quality in Higher Education. The Role of IQAC" held at VEERASHAIVA COLLEGE , BALLARI, karnataka ON 15th and 16th February, 2019.
16. Faculty development programme on “Recent Advanced in Material Science and Mathematical Application” held during 15th june to 2020 organizes by Department of Basic Science, Ghousia College of Engineering, Ramanagar-562159, Karnataka. India.
17. Webinar on “SUPERCAPACITORS” and “OLEDs-FUTURE OF LIGHTING AND DISPLAY TECHNOLOGY” on 18th and 20th june 2020. organized by the Department of Studies in Physics, Davangere University, Davangere, Karnataka.
18. Webinar and Quiz on the eve of “International Yoga Day-2020” on 21st June 2020, held at Bapuji Institute of Engineering and Technology, Davangere, Karnataka
19. National Webinar on Raman Effect and its Application organized by the Department of Studies in physics, Davangere University on 25th june, 2020.

Major Research Projects: As Project Fellow

- Worked as “**Project Fellow**” in DST-SERB major research project for **4 years** from 25th Feb 2014 to 2018 in the Department of Physics, Mangalore University.
- Project on Polymer (M.Sc Project Completed) Under the guidance of Dr. Manjunath, Govt science Chitradurga
- **Projects Guided for M.Sc. Students in Physics, of Davangere University, Davangere, Karnataka: 12 students.**
- **Projects Guided for B.E Students in Physics, of BIET, Davangere, Karnataka: 8 students.**

Extra/Co-curricular Activities:

- ❖ **Assisted for TBRP for high school students organized in our campus in association with FAER and Zebra, Bangaluru.**
- ❖ **Coordinator of First Year time tables , Test time table**
- ❖ **Research papers published**
- ❖ **Research Activities Files**
- ❖ **Worked as a Institute Coordinator for Universal Human Value (UHV).**
- ❖ **Constitution of Indian, Professional Ethics And Cyber Law (CPC) Course Code (18CPC39/49).**