

## CURRICULAM VITAE

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**Region** : H K (Kalyana Karnataka )

**Date of birth** : July 20,1970

**Academic Qualifications** : Ph.D. (Transport & Electrochemical property of Polymer composite) Gulbarga University (2002)  
M. Phil. (Quantum noise in Radioactive Decay) Gulbarga University (1999)  
M. Sc. (Physics) Gulbarga University (1998).

**Specialization** : Solid State Physics

**Teaching Experience** : 20 years  
Presently working as a Professor (Dec 2 2016 onwards)  
Associate Professor (Dec. 2 2013 to Dec.1 2016)  
Senior Scale Lecturer (July 21 2008- Dec. 1 2013)  
Lecturer (July 21 2004-08)  
Dept. of Studies in Physics, Mangalore University,  
Karnataka, India

**Research Experience** : 24 years (excluding M Phil & Ph D period)



**Research Interests : Condensed Matter Physics**

I am completed Master degree in physics (Solid State Physics as a specialization) and obtained his Ph.D. on research title "Transport & Electrochemical property of Polymer composite" from the Gulbarga University, Gulbarga (India) in 2002. I joined as a Assistant Professor in Physics, Mangalore University during July 21, 2004 and became a Professor in December 2, 2016. My field of research interest is Condensed Matter Physics, mainly focused on study of Polymer electrolytes, Polymer Nanocomposite, and 2-D material (Quantum dot) for electrochemical energy storage and sensor, solid state battery applications as well as fullerene and non-fullerene for photovoltaic application. Successfully completed six major research projects as a principal investigator of worth amount \$12.4 million USD (INR 1.24 Cr) funded by the various funding agencies, Government of India (DAE-BRNS, UGC, DST, and SERB) and established the Solid State Polymer Research Laboratory by set up with major research equipment's interface with computer like CHI Electrochemical Workstation, Wayne Kerr Impedance Analyzer, Perkin Elmer Ultraviolet Absorption Spectroscopy, Alpha Brucker Fourier Transform Infrared, Keithly Electrometer, Spray pyrolysis depositing unit, Spin coating depositing unit, Hydrothermal unit, Thermal annihilation in presence of various gases, and minor equipment under various research projects. I have successfully guided 15 Ph.D. students (awarded) and presently 4 students are pursuing for their Ph D programme. Presently, SERB one research project is going on with worth of Rs.49. 47 lakhs. I have published 56 research papers in referred peer-reviewed International Journals (highest impact factor is 8.21, total impact factor ~58), 65 papers in proceedings journals and 118 papers presented in conferences/symposia and delivered invited/oral/poster presentations in the International conferences at various places in India and abroad. Organized International Conference on Physics of Materials and Nanotechnology-2019 (ICPN 2019) during Septmber 19-21, 2019 and one day Webinor on "Advanced Materials for Energy Applications" during May 31, 2021 as a Convener and published 137 ICPN-2019 full papers in AIP conference proceedings book, volume 2244, 2020, ISBN-978-0-7453-2003-8. ([scitation.org/journal/apc](https://scitation.org/journal/apc)) as a chief editor.

## Research Publications

### **In International referred journals**

1. **Devendrappa H**, Subba Rao U V, and M V N Ambika Prasad  
“Study Of D C Conductivity and Battery Application Of PEO/PANI and Its Composites”  
in Journal of Power Source, vol. 155, Issue 2, (April 21- 2006) 364-67. (**Impact factor 8.2**)  
**DOI** 10.1016/j.jpowsour.2005.05.014.
2. **Devendrappa H** and M V N Ambika Prasad  
“Optical and Electrical Conductivity For (PEO+NiSO<sub>4</sub>) Polymer Electrolytes” International  
Journal of Materials Sciences” **ISSN 0973- 4589** Volume 4, Number 1 (2009), pp. 85–90.
3. Subramanya Kilarkaje, Manjunatha V, Raghu S, M V N Ambika Prasa, **Devendrappa H**  
“Effect Of 8mev Electron Irradiation On The Optical Properties Of Doped Polymer  
Electrolyte Films” in J. Phys. D: Appl. Phys. 44 (2011) 105403.(**Impact factor 2.3**)
4. V. Manjunatha, Kilarkaje Subramanya, S. Raghu, **Devendrappa H**  
“Optical, DC Conductivity and Electrochemical Parameter of Polymer Electrolyte  
Complexes” in Journal of International Academy of Physical Sciences Vol. 15, (2011) pp.  
293-314, **ISSN 0974 – 9373**.
5. V. Manjunatha, Kilarkaje Subramanya, S. Raghu, **Devendrappa H**  
“Refractive Index and Dispersive Energy Of NiSO<sub>4</sub> Doped Polyethylene Oxide Films”  
in Journal of Material Science and Engineering-A **ISSN 1934-8959** (2011) 964-973 (**Impact  
factor 1.00**)
6. Subramanya Kilarkaje, Manjunatha V· Raghu S, MVN Ambika Prasad, **Devendrappa H**  
“Optical and Electrical Characterization Of (PEO + Methyl Violet) Polymer Electrolytes” in  
the Journal of Applied Polymer Science. Volume 124, Issue 3, 5 May 2012, Pages: 2558–  
2566. (**Impact factor 2.18**) **DOI** 10.1002/app.34644
7. Kunteppa H, Aashis S. Roy, **Devendrappa H**, M. V. N. Ambika Prasad  
“Synthesis, Characterization, and Electrochemical Properties of Poly(ethylene oxide)-Based  
Polyaniline Electrolyte Complex” in the Journal of Applied Polymer Science, Vol. 125,  
Issue 2, 15 July 2012, Pages: 1652–56. (**Impact factor 2.18**)
8. S. Raghu, Subramanya Kilarkaje, V. Manjunatha, **Devendrappa H**  
“AC Conductivity & Dielectric Relaxation of Polymer Complexes” in Solid State Physics  
(AIP publication ) 1447, 967 (2012).**DOI** 10.1063/1.4710326.
9. Subramanya Kilarkaje, S. Raghu, V. Manjunatha, **Devendrappa H**  
“Structural, Thermal Studies and Ionic Conductivity of doped Polymer Electrolytes”  
in Solid State Physics (AIP publication) 1447, 967 (2012).**DOI** 10.1063/ 1.4710326.
10. S. Raghu , Subramanya Kilarkaje, Ganesh Sanjeev, **Devendrappa H**  
“Electron Beam Induced Modifications In Conductivity and Dielectric Property Of Polymer  
Electrolyte Film” in Radiation Measurements 53-54 (june-july 2013) 56-64  
(**Impact factor 1.17**) **DOI** 10.1016/j.radmeas.2013.03.017

11. V. Manjunatha, Kilarkaje Subramanya, **Devendrappa H**  
“Structural optical & electrical conductivity properties of  $\text{Li}_2\text{SO}_4$  doped polymer electrolytes” in Composite Interfaces Vol.21, Issue 2,2014  
(**Impact factor 1.083**) DOI 10.1080/15685543.2013.838850.
12. S. Raghu a, Subramanya Kilarkaje, Ganesh Sanjeev, **Devendrappa H**  
“Effect of Electron Beam Irradiation on Polymer Electrolytes: Change in Morphology, Crystallinity, Dielectric Constant and AC Conductivity with Dose” in Radiation Physics & Chemistry Vol. 98, May 2014, Pages 124-31.(**Impact factor 1.40**)
13. S. Raghu, Subramanya Kilarkaje, V. Manjunatha, **Devendrappa H**  
“ The change in dielectric constant, AC conductivity and optical band gaps of polymer electrolyte film: Gamma irradiation” in “Solid State Physics (AIP publication )” 1591, 1272 (2014) DOI : 10.1063/1.4872927.
14. Sharanappa C, S. Raghu, K. Subramanya, K. Archana, V. Mini & **Devendrappa H**  
“Conductivity and optical band gaps of polyethylene oxide doped with  $\text{Li}_2\text{SO}_4$  salt” in “Solid State Physics (AIP conference proceeding) 1591, 1275 (2014)  
DOI 10.1063/1.4872928.
15. Sharanappa Chapi, Raghu S, Mini V, Archana K, **Devendrappa H**  
“Studying the effect of KCl Addition on the Optical Properties and Morphology of the Solid Polymer Electrolyte film” in Int.J. Chem Tech Res.2014,6(6),pp 3321-3324. ISSN : **0974-4290**.
16. Mini Vellakkat, Archana Kamath, S. Raghu, Sharanappa Chapi & **Devendrappa H**  
“Dielectric Constant & Transport Mechanism of Percolated PANI Nanoclay Composites” in Ind. Eng.Chem.Res. 2014,53, 16873–82.(**Impact factor 2.84**).
17. Sharanappa Chapi and **Devendrappa H**  
“Influence of Cobalt (II) Chloride Catalysed on the Thermal & Optical Characterization of PEO Based Solid Polymer Electrolytes” in Journal of Research Updates in Polymer Science, 2014, 3. ISSN: **1929-5995/14** .
18. Archana Kamath and **Devendrappa H**  
“Concentration dependent ionic conductivity and dielectric relaxation of methyl blue dyed polyethylene oxide films” in Polymer Bulletin (2015) 72:2705–2724.  
(**Impact factor 1.43**) DOI 10.1007/s00289-015-1431-3.
19. Raghu S, Archana K, Sharanappa C, Ganesh S, **Devendrappa H**  
“The physical & chemical properties of gamma ray irradiated polymer electrolyte films” in Journal of Non-Crystalline Solids 426 (2015) 55–62.  
(**Impact factor 2.14**) DOI 10.1016/j.jnoncrysol.2015.06.018.
20. Archana Kamath, Raghu S, Mini V, Sharanappa C, **Devendrappa H**  
“Thermochromism and Fluorescence in Dyed PEO Films” in SOLID STATE PHYSICS: Proceedings of the 59th DAE SSP Symposium 2014 (AIP publication) 1665, 060003 (2015). DOI 10.1063/1.4917838.

21. Raghu S, Archana K, Sharanappa C, Ganesh S, **Devendrappa H**  
 “Electron Beam and Gamma Ray Irradiated Polymer Electrolyte Films: Dielectric Properties” in  
 Journal of Radiation Research & Applied Science 9 (2016) 117-124.  
 (**Impact factor 1.70**) DOI 10.1016/j.jrras.2015.10.007.
22. Archana Kamath, Raghu S and **Devendrappa H**  
 “Methyl blue dyed Polyethylene oxide films: Optical and Electrochemical Characterization and  
 Application as a Single Layer Organic Device ” in Optical Materials , 426 (2015) 55–62. (**Impact  
 factor 2.023**) DOI 10.1016/j.optmat.2015.10.026.
23. Sharanappa Chapi and **Devendrappa H**  
 “Enhanced electrochemical, structural, optical, thermal stability and ionic conductivity of  
 (PEO/PVP) polymer blend electrolyte for electrochemical applications” in Ionics, 2015,  
 (**Impact factor 2.062**) DOI 10.1007/s11581-015-1600-2.
24. Mini V and **Devendrappa H**  
 “Chitosan Mediated Synthesis of Core/Double Shell Ternary Polyaniline/Chitosan/Cobalt Oxide  
 nano composite-As High Energy Storage Electrode Material in Supercapacitors” in Mater. Res.  
 Express 3 (2016) 015502.  
 (**Impact factor 1.4**) DOI 10.1088/2053-1591/3/1/015502.
25. Mini V and **Devendrappa H**  
 “Nanostructured Multifunctional Core/Shell Ternary Composite of Polyaniline-Chitosan-Cobalt  
 Oxide: Preparation, Electrical and Optical Properties” in Materials Chemistry and Physics 170  
 (2016) 90-98.(**Impact factor 2.28** ) DOI 10.1016/j.matchemphys.2015.12.023.
26. Sharanappa Chapi, Raghu S.,Mini V., Archana K., S. Thomas, **Devendrappa H**  
 “Structural, Optical and Thermal Study on PEO-Based Solid Polymer Electrolyte for Optical  
 Device Applications” in Macromol. Symp. 2016, 361, 129–135 (**ISSN: 1521-3900**).
27. Archana Kamath, **Devendrappa H**  
 “Effect of Methyl Red Dye on Dielectric and Conductivity Properties of PEO/CdCl<sub>2</sub> Electrolytes”  
 in International Conference on Condensed Matter and Applied Physics (ICC 2015) AIP Conf.  
 Proc. 1728, 020216-1–020216-4, DOI 10.1063/1.4946267.
28. Sharanappa Chapi, **Devendrappa H**  
 “Optical, Electrical, Thermal and Electrochemical Studies of Spin-coated Polyblend-ZnO  
 Nanocomposites” in J of Mat Sci. Mat Ele. (2016) 27:11974–11985.  
 (**Impact factor 2.019** ), DOI 10.1007/s10854-016-5344-51.
29. Mini V and **Devendrappa H**  
 “Electrical Conductivity and Supercapacitor Properties of Polyaniline/Chitosan/Nickel Oxide  
 Honeycomb Nanocomposite” in J. APPL. POLYM. SCI. 2016,  
 (**Impact factor 1.86** ), DOI 10.1002/app.44536.
30. Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Raghu S and **Devendrappa H**  
 “Localized Polarons in In-situ Synthesized Polyaniline Nano Composites Improve the  
 Morphology, and Thermal and Electrical Conductivity RSC Adv., 2016, 6, 115074

(**Impact factor 3.20**), DOI 10.1039/C6RA24137A.

31. Yesappa L, Niranjana M, Ashokkumar S, Vijeth H, Sharanappa C, Raghu S, **Devendrappa H** “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-Aug 2017,(**Impact factor 1.676**), DOI: 10.1007/s11664-017-5724-31.
32. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, Basappa M, Jishnu Dwivedi, V C Petwal, Ganesh S, **Devendrappa H**, “Optical Properties and Ionic Conductivity Studies of 8MeV Electron Beam Irradiated Poly (vinylidene fluoride-co- hexafluoropropylene)/ LiClO<sub>4</sub> Electrolyte Film for Opto-Electronic Applications” RSC Advances, 2018, 8, 5297– 15309, (**Impact factor 3.20** ), DOI: 10.1039/c8ra00970h.
33. Yesappa L, Niranjana M, Ashokkumar S, Vijeth H, Raghu S, **Devendrappa H** “Characterization, Electrical Conductivity and Electrochemical performance of Polyaniline-LiClO<sub>4</sub>-CuO Nano Composite for Energy Storage Applications”, Polymer-Plastics Technology and Engineering- 57, 2018,1466175, (**Impact factor 1.232**), DOI: 10.1080/03602559.2018.1466175
34. Yesappa L, Niranjana M, Ashokkumar S, Vijeth H, Ganesh Sanjeev, **Devendrappa H** “Increased Porous Morphology and Thermal Degradation of Electron Beam Irradiated PVDF-HFP/LiClO<sub>4</sub> Polymer Electrolyte” Radiation effects and defects in solids, 173 (3-4), 1-7, 2018, DOI: 10.1080/10420150.2018.1486840.
35. Yesappa L, Niranjana M, Ashokkumar S, Vijeth H, Vandana M, Ganesh Sanjeev, **Devendrappa H** “The Modified Thermal, Dielectric and Electrical Conductivity of PVDF-HFP/LiClO<sub>4</sub> Polymer Electrolyte Films by 8 MeV Electron Beam Irradiation” ACS Omega 2018, 3, 14188–14200, (**Impact factor 2.8**), DOI: 10.1021/acsomega.8b01097.
36. Yesappa L, Ashokkumar S P, Vijeth H, Basappa M, Ganesh Sanjeev, **Devendrappa H** “Electron Beam Irradiation Effect on Structure, Morphology and, Optical Properties PVDF HFP/PEO Blend Polymer Films” Journal of Radioanalytical and Nuclear Chemistry 2019, 1-6. [ISSN No. 1588-2780]. (**Impact factor 1.18**), DOI: 10.1007/s10967-019-06466-0
37. Vijeth H, Ashokkumar S P, Yesappa L, Niranjana M, Vandana M **Devendrappa H** “Flexible and high energy density solid-state asymmetric supercapacitor based on polythiophene nanocomposites and charcoal” RSC Adv., 2018, 8, 31414–31426, (**Impact factor 3.20**), DOI: 10.1039/c8ra06102e.
38. Vijeth H, Ashokkumar S P, Yesappa L, Niranjana M, Vandana M, **Devendrappa H**. “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, 1-14, [ISSN No. 1573-482X], (**Impact factor 2.6**), DOI: 10.1007/s10854-019-01060-2

39. Ashokkumar S P, Yesappa L, Vijeth H, Niranjana M, Vandana M, **Devendrappa H**  
“Structure, morphology, thermal and electrochemical studies of electrochemically synthesized polyaniline/copper oxide nanocomposite for energy storage devices” *Materials Research Express.*, 2020, 6, 125557, [ISSN No.20531591],  
(**Impact factor 1.49**), DOI 10.1088/2053-1591/ab5dde.
40. Vijeth H, Ashokkumar SP, Yesappa L, Vandana M, **Devendrappa H**  
“Camphor sulfonic acid surfactant assisted polythiophene nanocomposite for efficient electrochemical hydrazine sensor” *Materials Research Express*, 2020, 6, 125375, [ISSN No.20531591], (**Impact factor 1.49**), DOI 10.1088/2053-1591ab5ef5.
41. Ashokkumar SP, Vijeth H, Yesappa L, Niranjana M, Vandana M, **Devendrappa H**  
“Electrochemically synthesized polyaniline/copper oxide nano composites: To study optical band gap and electrochemical performance for energy storage devices” *Inorganic Chemistry Communications*, 2020, 107865,  
(**Impact factor 1.9**), DOI 10.1016/j.inoche.2020.107865.
42. Vandana M, Vijeth H, Ashokkumar SP, **Devendrappa H**  
“Hydrothermal synthesis of quantum dots dispersed on conjugated polymer as an efficient electrodes for highly stable hybrid supercapacitors”, *Inorganic Chemistry Communications*, 2020, 107941, (**Impact factor 1.9**), DOI 10.1016/j.inoche.2020.107941.
43. Vijeth H, Yesappa L, Ashokkumar SP, Vandana M, **Devendrappa H**  
“Hybrid Core-Shell nanostructure made of Chitosan incorporated Polypyrrole Nanotubes decorated with NiO for All-Solid-State Symmetric Supercapacitor Application”, in *Electrochemical Acta*, 354, 136651, 2020.  
(**Impact factor 6.21**) DOI 10.1016/j.electacta.2020.136651
44. Ganesha H, Veeresh S, Nagaraju Y S, Vandana M, Ashokkumar S P, Vijeth H, **Devendrappa H** “Growth of 3-Dimensional MoS<sub>2</sub>-PANI nanofiber for high electrochemical performance” in *Materials Research Express*, (2020).  
(**Impact factor 1.92**), DOI 10.1088/2053-1591/ab9e30
45. Vandana M, Vijeth H, Ashokkumar S P, **Devendrappa H**  
“Effect of Different Gel Electrolytes on Conjugated Polymer - Graphene Quantum Dots Based Electrode for Solid State Hybrid Supercapacitors” in *Polymer-Plastics Technology and Materials*, 4, (2020), 2068-75, (**Impact factor 1.78**), DOI 10.1080/25740881.2020.1784221.
46. Veeresh S, Ganesh H, Nagaraju Y S, Vandana M, Ashokkumar S P, Vijeth H, M V N Ambika Prasad, **Devendrappa H** “UV-irradiated Hydrothermal Synthesis of Reduced Graphene Quantum Dots for Electrochemical Applications”, in *Polymer-Plastics Technology and Materials*, (2021), 114, 108289, (**Impact factor 2.65**), DOI 10.1016/j.diamond.2021.108289.

47. Vandana M, Vijeth H , Ashokkumar S P, **Devendrappa H**  
 “Graphene quantum dots doped conducting polymer nanocomposite for high performance supercapacitor application” in International Journal of Nanotechnology,18,5-8, June (2021), 494-504, **DOI:** 10.1504/IJNT.2021.116170
48. M. Vandana, Y. S. Nagaraju,H. Ganesh, S. Veeresh, H. Vijeth, M. Basappa H. Devendrappa  
 “A SnO<sub>2</sub>QDs/GO/PPY ternary composite film as positive and graphene oxide/charcoal as negative electrodes assembled solid state asymmetric supercapacitor for high energy storage applications Effect of Different Gel Electrolytes on Conjugated Polymer-Graphene Quantum Dots Based Electrode for Solid State Hybrid Supercapacitors” in RSC Adv.11,45, 2021, 27801-27811 (**Impact factor 3.3**), **DOI:** 10.1039/d1ra03423e.
49. Vijeth H , Rabah Boukherroub , Ashokkumar S P , Vandana M , **Devendrappa H**  
 “Self-Assembled Polypyrrole Nanotubes/MoS<sub>2</sub> Quantum Dots for High Performance Solid State Flexible Symmetric Supercapacitor” in Sustainable energy and fuels, November 2021 (**Impact factor 6.36**), **DOI** <https://doi.org/10.1039/D1SE01391B>
50. Nagaraju Y S, Ganesha H, Veeresh S, Vijeth H, Basappa M, and **Devendrappa H\***  
 Self-templated one-step hydrothermal synthesis of hierarchical actinomorphic flower-like SnO<sub>2</sub>-ZnO nanorods for high-performance supercapacitor application” in Journal of Electroanalytical Chemistry, 900,November 2021, 115741 (**Impact factor 4.45**)  
**DOI** 10.1016/j.jelechem.2021.115741
51. Ganesha H, Veeresh S, Nagaraju Y S, Vandana M, Basappa M, Vijeth H, **Devendrappa H\***  
 2-Dimensional layered Molybdenum disulfide nanosheets and CTAB assisted Molybdenum disulfide nanoflower for High Performance Supercapacitor Application” in Nanoscale Advances,4,2, December 2021, 521-531 (**Impact factor 4.55**), **DOI** 10.1039/D1NA00664A
52. Vandana M Veeresh S, Ganesh H, Nagaraju Y S, M, , Basappa M, Vijeth H, **Devendrappa H**  
 Graphene oxide decorted SnO<sub>2</sub> quantum dots/polypyrrole ternary composite towards symettric composites” in Journal of energy storage, 46, 103904, January 2022 (**Impact factor 6.58**),**DOI** 10.1016/j.est.2021.103904.



53. Nagaraju Y S, Ganesha H, Veeresh S, Vandana M, Basappa M, Vijeth H, **Devendrappa H\***  
 “Single-step hydrothermal synthesis of ZnO/NiO hexagonal nanorods for high-performance supercapacitor application” in *Material science and semiconductor process*, 142, January (2022), 106429. **(Impact factor 3.92) DOI** 10.1016/j.mssp.2021.106429.
54. Nagaraju, Y. S., H. Ganesh, S. Veerasha, H. Vijeth, and **H. Devendrappa**. &quot; Synthesis of hierarchical ZnO/NiO nanocomposite Wurtz hexagonal nanorods via hydrothermal for high-performance symmetric supercapacitor application.&quot; *Journal of Energy Storage*, 2022, 105924, (Impact factor 9.4), DOI/10.1016/j.est.2022.105924
55. Veeresh S, Ganesh H, Nagaraju Y S, Vijeth H, Vandana M, Basappa M, **Devendrappa H**  
 “Graphene oxide/cobalt oxide nanocomposite for high-performance electrode for supercapacitor application”, in *Journal of Energy Storage*, 52, 2022, 104715, **(Impact factor 6.5), DOI** 10.1016/j.est.2022.104715.
56. Y S Nagaraju, H Ganesh, S Veeresh, H Vijeth, H Devendrappa “A strategy of making waste profitable: Self-templated synthesis of helical rod structured porous carbon derived from Ganoderma Lucidum for advanced supercapacitor electrode” in *Diamond and Related Materials*, 131(2), 2022, 109607, DOI:10.1016/j.diamond.2022.109607.
57. Veeresh S, Ganesh H, Nagaraju Y S, Vijeth H, Vandana M, Basappa M, **Devendrappa H**  
 “Activated carbon incorporated graphene oxide with SnO<sub>2</sub> and TiO<sub>2</sub>-Zn nanocomposite for supercapacitor application”, in *Journal of Alloys and Compounds* 952, 169907, **(Impact factor 6.37)**.
58. Ganesha H, Veeresh S, Nagaraju Y S, Suresh D S, **Devendrappa H**. A Paper entitled “Micelles self-degraded polypyrrole nanotube-cobalt oxide nanocomposite based electrochemical sensor for detection of Ascorbic acid” published in *Inorganic Chemistry Communications* (2022), <https://doi.org/10.1016/j.inoche.2022.109975>
59. Vijaykumar S P, Sapna S, Suresh D S, Ganesha H, Veeresh S, Nagaraju Y S, **Devendrappa H**  
 A Paper entitled ‘Micelles self-degraded template based 2D graphitic carbon nitride-polypyrrole nanotube composite electrode for high supercapacitor performance’ published in *Diamond and Related Materials*, 139 (2023) 110257. <https://doi.org/10.1016/j.diamond.2023.110257>
60. Sapna Sharanappa, Vijaykumar S P, Suresh D S, Abdullah Ba Shbil, H Ganesha, Veeresh S, Nagaraju Y S, **Devendrappa H**. A Paper entitled ‘Synthesis of water-soluble nitrogen doped carbon quantum dots-polypyrrole nanocomposite via in-situ polymerization for high performance supercapacitor application’ published in *Journal of Energy Storage* 74 (2023) 109371. <https://doi.org/10.1016/j.est.2023.109371>

61. Suresh D S, Vijaykumar S P, Sapna Sharanappa, Abdullah Ba Shbil, H Ganesha, Veeresh S, Nagaraju Y S, **Devendrappa H**.  
A Paper entitled “Novel approach towards optically active and hexagonal plate morphology of Zinc doped Perylene Tetra Carboxylic Di Anhydride composite for high photovoltaic and flexible supercapacitor performances” published in *Journal of Power Sources* 593 (2024) 233967. <https://doi.org/10.1016/j.jpowsour.2023.233967>
62. Suresh D S, Abdullah Ba Shbil, Sapna Sharanappa, S P Vijaykumar, H Ganesha, S Veeresh, Y S Nagaraju, **H Devendrappa**. A Paper entitled “Enhancement of crystallinity with porosity material through solvent and thermal treated eggshell waste for high-performance supercapacitor applications” published in *Journal of Material Science: Materials in electronics* 35, 330 (2024).  
<https://doi.org/10.1007/s10854-024-12021-9>

### **I. In proceedings:**

1. Subramanya Kilarkaje, M V N Ambika Prasad, **Devendrappa H**  
“Effect Of Electron Beam Irradiation On The Optical Properties Of Doped Polymer Electrolyte Films” Proceedings of 2<sup>nd</sup> national conference on advances in new engineering materials and characterization, AMC-2010, Sullia, pp 114, 2010 .
2. Subramanya Kilarkaje, M V N Ambika Prasad, & **Devendrappa H**  
“CD <sup>2+</sup> Induced Modification Of Optical Properties Of Polyaniline” proceedings of 2<sup>nd</sup> national conference on advances in new engineering materials and characterization, AMC-2010, Sullia, p 121, 2010.
3. Subramanya Kilarkaje, M V N Ambika Prasad, **Devendrappa H**  
“Effect Of 8mev Electron Beam Irradiation On The Optical Band Gap and Transmittance Of Doped Polymer Electrolyte Films” Proceedings of International conference on Isotope Technologies And Applicationa-New Horizons, NIC-2010, Mumbai, pp 302-307, 2010.
4. Subramanya Kilarkaje, M V N Ambika Prasad, **Devendrappa H**  
“Electron induced Modification In The Optical Constants & Cluster Size of Doped Polymer Electrolyte Film” Proceedings of International conference on Isotope Technologies And Applicationa-New Horizons, **NIC-2010**, Mumbai, pp 335-339, 2010 .
5. Subramanya Kilarkaje, Manjunatha V, & **Devendrappa H**  
“Synthesis, Charecterzation and Optical Properties Of Doped Polyaniline” Proceedings of International conference on Polymer science and engineering: Emerging dimensions, PSE-2010, Chandigarh, 2010.
6. Subramanya Kilarkaje, Manjunatha V, & **Devendrappa H**  
“Modification Of The Optical Roperties Of (PEO +Methyl Violet) Polymer Electrolyte Films By Irradiation” proceedings of National conference on Advances in Polymer Science and Technology, APST-2010, NIT Hamirpur (HP), 2010.
7. Subramanya Kilarkaje, Manjunatha V, Raghu S, M V N Ambika Prasad, & **Devendrappa H**

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“Morphology, optical band gap and dielectric properties of PEO/PVP polymer blend film” AIP conference proceedings, 2244, 080018 (2020).
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62. Sunilkumar A, Manjunatha S, Ravikiran YT, **Devendrappa H**, Machappa T  
“AC frequency-dependent dielectric studies of polypyrrole composites” AIP conference proceedings, 2244, 080005 (2020).
63. Thalari Chandrashekar, Ramachandrappa Megha, Basavalingappa Chethan, Yaled Thippswamy Ravikiran, Nagappa Sasidhar, **Devendrappa Hundekal**  
“Enhanced electrochemical properties of polyblend electrolyte on quartz plate by spin-coating: Energy storage devices” AIP conference proceedings, 2244, 080014 (2020).
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  67. Suresh D S, S Veeresh, H Ganesh, Y S Nagaraju, S P Vijaykumar, Sapna Sharanappa, **H Devendrappa**. A Paper entitled “Synthesis, characterization of cadmium sulfide doped polymer P3HT for energy storage applications” published in *AIP Conf. Proc.* **12 January 2024**; 2995(1): 020181. <https://doi.org/10.1063/5.0178459>

### III. International/national Conferences attended and papers presented:

1. Participated in International Conference of “**SHIMEC-98** “at Nuclear Science Center New Delhi on 19<sup>th</sup>- 22<sup>nd</sup> Oct 1998.
2. Participated and presented a paper on “**Quantum 1/f Noise in Radioactive Decay**’ in the National Seminar of “Major Land Mark on Physics in the 20th Century.
3. Participated in the Workshop of **SHIPIM-2000** at Poona University Pune conducted by Nuclear Science Center New Delhi on 20<sup>th</sup> Oct. 2000.
4. Participated in the Workshop of “**Laser Experiments** “at Department of Physics, Gulbarga University, Gulbarga on 23<sup>rd</sup> January 2001.
5. **Devendrappa H**, U.V. Subba Rao and M.V.N.Ambika Prasad Participated and presented a paper on “Study of D C Conductivity and Battery Application of PEO/PANI Composites” in International Seminar of “Advances in Polymer Technology 2004 (APT-2004)” from Jan. 16-17, 2004, at Department of Polymer Science and rubber Technology, Cochin University, Kochi.
6. **Devendrappa H** and M.V.N.Ambika Prasad Participated & presented a paper on “AC Conductivity & Dielectric Properties of Polyethylene Oxide/Polyaniline Composites” National Seminar on Ferroelectrics & Dielectrics (NSFD-III)” at Univ. of Delhi 23 - 25<sup>th</sup> Nov. 2004.
7. **Devendrappa H** and M.V.N.Ambika Prasad Participated and presented the paper entitled “AC Conductivity and Dielectric Properties of Polyethylene Oxide & its composites” in National Seminar on “Advance Materials in Science (AMS-06), Gulbarga University, Gulbarga from 9<sup>th</sup>- 10<sup>th</sup> Jan. 2006.

8. Participated in the One day Workshop on “Industrial Corrosion Awareness & Prevention” held in Mangalore University On 25<sup>th</sup> February 2006.
9. **Devendrappa H** and M.V.N. Ambika Prasad  
Participated and presented A paper entitled “Study Of AC Conductivity and Dielectric Constant of PEO/PANI Composites” Proceedings of the DAE SSP Symposium, Vol. 51 (2006). P235-36.
10. **Devendrappa H** and M.V.N.Ambika Prasad  
Participated and presented the paper entitled “Electrochemical Stability of Polyethylene Oxide with Conducting Polyaniline Composite” in international conference on POLYCHAR-16, held at Department of Physics, Lucknow University Lucknow, India. 17-21<sup>st</sup> Feb.2008.
11. **Devendrappa H** and M V N Ambika Prasad  
Participated & presented the paper entitled “Optical Property and Electrical Conductivity for (PEO+NiSO<sub>4</sub>) Polymer Electrolytes” in international conference on ICFMAT 2009, held at Velammal Engineering College Chennai, India during 29-30<sup>th</sup> Jan.2009.
12. **Devendrappa H** & M V N Ambika Prasad  
Participated & presented a paper entitled “Studies On Optical Band Gap & Electrical Conductivity Of (PEO+NiSO<sub>4</sub>) Polymer Electrolytes” in Polychar 17, World Forum on Advanced Materials, organized at Rouen University, France in 20-24<sup>th</sup> April 2009.
13. Subramanya Kilarkaje, Manjunatha V, **Devendrappa H**  
Participated & Presented a paper entitled “Structural, Optical & Electrical Conductivity Of Doped Polymer Electrolytes Thin Films” in SCMP-2009, held at IIT-Guwahati Assam, India during 31<sup>st</sup> Oct.- 1<sup>st</sup> Nov. 2009.
14. Subramanya Kilarkaje, Manjunatha V, **Devendrappa H**  
Participated and presented a paper entitled “Studies On Optical Properties and Electrical Conductivity Of (PEO+Methyl Violet) Polymer Electrolytes” in “APA-2009” organized by Asian Polymer Association at Dept. of Textile Technology, I I T New Delhi form 17<sup>th</sup>-20<sup>th</sup> Dec. 2009.
15. Subramanya Kilarkaje, Manjunatha V, **Devendrappa H**  
Participated & presented a paper entitled “Impact Of Transition Metal Halide On The Optical and Electrical Characterization Of Polymer Electrolyte Films” in POLYCHAR-18, World Forum on Advanced Materials, organized at Seigen University, Seigen Germany from 7-10<sup>th</sup> April 2010.
16. Subramanya Kilarkaje, Manjunatha V, **Devendrappa H**  
Participated & presented a paper entitled “Effect Of Electron Beam Irradiation On The Optical Properties Of Doped Polymer Electrolyte Films” in International Conference on Physics of Emerging Functional Materials (PEFM-2010) Bhabha Atomic Research Center, Mumbai 400 085, India form 22<sup>th</sup>-24<sup>th</sup> Oct. 2010.

17. Subramanya Kilarkaje, Manjunatha V, **Devendrappa H**  
Participated & presented a paper entitled “Synthesis, Optical and Electrical Characterization Of Barium Sulphate Doped Polyaniline” in MACRO-2010 International conference organized by The Society for polymer science, IIT New Delhi from 15<sup>th</sup>-17<sup>th</sup> Dec. 2010.
18. Subramanya Kilarkaje and **Devendrappa H**  
Participated & presented a paper entitled “8 MeV Electron Induced Modifications In The Optical Properties Of Doped Polymer Electrolyte Films” in International Conference on Materials for Advanced Technologies (ICMAT 2011) organized by the Materials Research Society of Singapore from 26 June to 1 July, 2011 at International Convention & Exhibition Centre, Singapore.
19. Subramanya Kilarkaje, Raghu S, **Devendrappa H**  
Participated & presented a paper entitled “Synthesis, Characterization and Optical Properties Of Manganese Sulphate Doped Polyaniline” in the 6th biennial International Conference on Materials for Advanced Technologies (ICMAT 2011) organized by the Materials Research Society of Singapore will be held from 26 June to 1 July, 2011 at International Convention & Exhibition Centre, Singapore.
20. Subramanya Kilarkaje, Raghu S, **Devendrappa H**  
Participated & presented a paper entitled “Structural, Thermal Studies and Ionic Conductivity Of Doped Polymer Electrolytes” in the 56<sup>th</sup> DAE-SSP Organized by SRM University, Kattankulatturu, Chennai, Tamilnadu, India during 19-23<sup>rd</sup> Dec., 2011.
21. Subramanya Kilarkaje, Raghu S, **Devendrappa H**  
Participated & presented a paper entitled “AC Conductivity and Dielectric Relaxation Of Polymer Complexes” in 56<sup>th</sup> DAE-SSP Organized by SRM University, Kattankulatturu, Chennai, Tamilnadu, India during 19-23<sup>rd</sup> Dec., 2011.
22. Subramanya Kilarkaje, Raghu S, **Devendrappa H**  
Participated & presented a paper entitled “ Studies On Structural, Optical and Cluster Size Of doped Polyaniline ” in International Conference, ICAM-2012, during 5-7<sup>th</sup> Jan. 2012, at Loyola College Chennai, Tamilnadu, India.
23. Subramanya Kilarkaje, Raghu S, **Devendrappa H**  
Participated & presented a paper entitled “Transport & Optical Properties Of Synthesized PANI-BaSO<sub>4</sub> Composite” in International Conference, ICAM-2012, During 5-7<sup>th</sup> Jan.2012, at Loyola College Chennai, Tamilnadu, India.
24. Subramanya Kilarkaje, Raghu S, **Devendrappa H**  
Participated & presented a paper entitled “A Study Of Optical & Dielectric Properties Of 8mev Electron Irradiated Polymer Electrolyte Film” in International Conference, ICAM-2012, during 5-7<sup>th</sup> Jan. 2012, at Loyola College Chennai, Tamilnadu, India.
25. Subramanya Kilarkaje, Raghu S, **Devendrappa H**  
Participated & presented a paper entitled “Ionic Conductivity & Electro Chemical Parameters Of Doped Polymer Film” in 1<sup>st</sup> International Conference, ICPM-MDF- 2012, during 17-19<sup>th</sup> Jan. 2012, at Shivaji University, Kolhapur, India.

26. Raghu S, Subramanya Kilarkaje, **Devendrappa H**  
Participated & presented a paper entitled “Dielectric Studies on PEO-Cadmium Sulphide Polymer Electrolytes” in 1<sup>st</sup> International Conference, ICPM- MDF-2012, during 17-19<sup>th</sup> Jan. 2012, at Shivaji University, Kolhapur, India.
27. Raghu S, Subramanya Kilarkaje, Ganesh Sanjeev, **Devendrappa H**  
Participated and presented a Paper entitles “Electron Beam Induced Modifications in The Conductivity and Dielectric PropertiesOf Polymer (PEO-LiSO<sub>4</sub>) System” in “3<sup>rd</sup> international conference on natural polymers, biopolymers, polymer electrolytes,blends: macro to nano scales (ICNP 2012). Mahatma Gandhi University, Kottayam, Kerala. Oct. 26-28<sup>th</sup> 2012.
28. Raghu S, Subramanya Kilarkaje, Ganesh Sanjeev, **Devendrappa H**  
Participated and presented a Paper entitles “Electrical Conductivity & Dielectric Spectroscopy of EB Irradiated Polymer Electrolyte Film”in “3<sup>rd</sup> international conference on natural polymers, biopolymers, polymer electrolytes,blends: macro to nano scales (ICNP 2012). Mahatma Gandhi University, Kottayam, Kerala. Oct. 26-28<sup>th</sup> 2012.
29. Raghu S, Subramanya Kilarkaje, Ganesh Sanjeev, **Devendrappa H**  
Participated and presented a Paper entitles “Structural, Optical and Electrical Conductivity Properties of PEO-Li<sub>2</sub>SO<sub>4</sub> Polymer System” in “3<sup>rd</sup> international conference on natural polymers, biopolymers, polymer electrolytes,blends: macro to nano scales (ICNP 2012). Mahatma Gandhi University, Kottayam, Kerala. Oct. 26-28<sup>th</sup> 2012.
30. Raghu S, Subramanya Kilarkaje, Ganesh Sanjeev, **Devendrappa H**  
Participated and presented a paper entitled “Electron Beam Induced changes in Dielectric Properties of Polymer Electrolyte films” in International Conference on Recent Advances in Material Science (RAMS-2012), Bangalore. Nov. 6-8<sup>th</sup> 2012.
31. **Devendrappa H**, Raghu S, Subramanya Kilarkaje, Ganesh Sanjeev  
Participated and presented a paper entitled “Study the Conductivity and Dielectric Properties of Electron Beam Irradiated Polymer electrolyte Film” in International Conference on Recent Advances in Material Science (RAMS-2012), Bangalore. Nov. 6- 8<sup>th</sup> 2012.
32. Subramanya Kilarkaje, Raghu S, **Devendrappa H**, Ganesh Sanjeev.  
Participated and presented a paper entitled “Characterization, optical and transport properties of doped Polyaniline” in International Conference on Recent Advances in Material Science (RAMS-2012), Bangalore. Nov. 6- 8<sup>th</sup> 2012.
33. Raghu S, Subramanya Kilarkaje, Ganesh Sanjeev, **Devendrappa H**  
Participated and presented a paper entitled “Optical and Dielectrics Modification of Irradiated Polymer Electrolyte film” in APA-2013 International Conference on Polymers on Frontiers Science & Technology was held at Punjab University Chandigarh Feb.21-23 2013.
34. Archana K, Raghu S, Subramanya K, Sharanappa Chapi, Mini V, **Devendrappa H**  
Participated and presented a paper entitled “Optical band gaps and structural properties of PEO doped with Methyle blue” in ICAPM-2013 International Conference on Advanced

Polymeric materials was held at MG University, Kottayam, Kerala. from Oct. 11-13-2013.

35. Sharanappa Chapi, Manjunatha V, Archana K, Raghu S, Subramanya K, Mini V, **Devendrappa H**  
Participated and presented a paper entitled “Investigate the AC conductivity and Optical Property of polyethylene oxide based complex films” in ICAPM-2013 International Conference on Advanced Polymeric materials was held at MG University, Kottayam, Kerala. from Oct. 11-13-2013.
36. Mini V, Archana K, Raghu S, Subramanya K, Sharanappa Chapi, **Devendrappa H**  
Participated and presented a paper entitled “Structural, Morphological and Optical Studies of Polyaniline Nano Clay Composites” presented in ICAPM-2013 International Conference on Advanced Polymeric materials was held at MG University, Kottayam, Kerala. from Oct. 11-13-2013.
37. Mini V, Archana K, Raghu S, Subramanya K, Sharanappa Chapi, **Devendrappa H**  
Participated and presented a paper entitled “Dielectric Studies on Polyaniline and Clay Composites” presented in IUMRS ICA-2013 International Conference on Advanced Polymeric materials was held at IISc Bangalore, Karnataka from Dec. 16-20<sup>th</sup> 2013.
38. Raghu S, Subramanya K, Sharanappa Chapi, Archana K, Mini V, **Devendrappa H**  
Participated and presented a paper entitled “The Change in Dielectric Constant, AC Conductivity & Optical Band Gaps of Polymer Electrolyte Film: Gamma Ray Irradiation” in 58<sup>th</sup> DAE-Solid State Physics Symposium 2013 was held at Tapar University, Punjab. from Dec. 17-21-2013.
39. Sharanappa Chapi, Raghu S, Subramanya K, Archana K, Mini V, **Devendrappa H**  
Participated and presented a paper entitled “Conductivity and Optical Band Gaps of Polyethylene Oxide Doped with Li<sub>2</sub>SO<sub>4</sub> Salt” in 58<sup>th</sup> DAE-Solid State Physics, Symposium 2013 was held at Tapar University, Punjab. from Dec. 17-21-2013.
40. Archana K, Raghu S, Subramanya K, Sharanappa Chapi, Mini V, **Devendrappa H**  
Participated and presented a paper entitled “Optical Transmittance & Reflectance of Methyl Blue Dye Doped Polyethylene Oxide Films” in APA-2014 International Conference on Polymer: Vision & Innovation was held at IIT New Delhi, Feb. 19-21 2014.
41. Mini V, Archana K, Raghu S, Subramanya K, Sharanappa Chapi, **Devendrappa H**  
Participated and presented a paper entitled “Polyaniline/chitosan/Co<sub>3</sub>O<sub>4</sub> Nano Composite - Structural and Optical Studies” in APA-2014 International Conference on Polymer: Vision & Innovation was held at IIT New Delhi, Feb. 19-21 2014.
42. Raghu S, Subramanya K, Ganesh Sanjeev, Nagaraja G K, **Devendrappa H**  
Participated and presented a paper entitled “Electron Beam and Gamma Ray Irradiated Polymer Electrolyte Films: Dielectric Properties” in APA-2014 International Conference on Polymer: Vision & Innovation was held at IIT New Delhi, Feb. 19-21 2014.
43. Sharanappa Chapi, Manjunatha V, Raghu S, Subramanya K, Mini V, Archana K, **Devendrappa H**  
Participated and presented a paper entitled “Investigate the AC

Conductivity and Optical Band Gaps in Polyethylene Oxide Based Complexes Solid Electrolyte Films ” in APA-2014 International Conference on Polymer: Vision & Innovation was held at IIT New Delhi, Feb.19-21 2014.

44. Mini V, Archana K, Raghu S, Subramanya K, Sharanappa Chapi, Revanasiddappa M, **Devendrappa H**  
Participated and presented a paper entitled “Transport Property of Polyaniline Clay- Nano Composites” in “ICMCT 2014” International Conference on Materials and Characterization techniques, held in VIT University Vellore Tamilnadu during 10-12, March 2014.
45. Archana K, Mini V, Subramanya K, Raghu S, Sharanappa Chapi, **Devendrappa H**  
Participated and presented a paper entitled “Thermal and Fluorescence Spectroscopic Studies on Dyed Polymer Films” in “ICMCT 2014” International Conference on Materials and Characterization techniques, held in VIT University Vellore Tamilnadu during 10-12, March 2014.
46. Sharanappa Chapi, Raghu S, Subramanya K, Archana K, Mini V, **Devendrappa H**  
Participated and presented a paper entitled “Studying the Effect of KCl Addition on the Optical Properties and morphological of the solid polymer electrolyte film” in “ICMCT 2014” International Conference on Materials and Characterization techniques, held in VIT University Vellore Tamilnadu during 10-12, March 2014.
47. **Devendrappa H**, Raghu S, Subramanya K, Ganesh Sanjeev  
Participated and presented a paper entitled “Polymer Degradation Due to Irradiation” in “ICMCT 2014” International Conference on Materials and Characterization techniques, held in VIT University Vellore Tamilnadu during 10-12, March 2014.
48. Sharanappa Chapi, Raghu S, Mini V, Archana K, **Devendrappa H**  
Presented a paper entitled “Influence of Cobalt (II) chloride addition on the Structural, Optical, Thermal, and Conductivity properties of PEO solid Polymer electrolyte films” Indo-US workshop on Advanced Materials And Their Applications IN Nanotechnology (AMAN 2014) held in BITS Pilani, KK Birla Goa Campus during ,17-19 May 2014.
49. **Devendrappa H** Sharanappa Chapi  
Participated and presented a paper entitled “Six Fold Increase the Ionic Conductivity in Divalent Cobalt Ions Doped Polyethylene Oxide Complexes Film” presented in ICCPC-2014 International Conference on Advanced Polymeric materials was held at MG University, Kottayam, Kerala. from Oct. 11-13-2014.
50. Niranjana M, Sharanappa Chapi, Archana K Raghu S and **Devendrappa H**  
Participated and presented a paper entitled “Microsphere Polyaniline/Dodecylbenzene Sulfonic Acid Composites for Electrochemical Performance” presented in RAINSAT-2015 International Conference on Recent Advancement in Science & Technology was held at, Sathyabama University Chennai from 8-10<sup>th</sup> July 2015.
51. Sharanappa Chapi and **Devendrappa H**  
Participated and presented a paper entitled “Optical, Thermal and Fluorescence Properties of Spin-Coated Solid Polymer Electrolyte Film” presented in RAINSAT-2015 International

Conference on Recent Advancement in Science & Technology was held at, Sathyabama University Chennai from 8-10<sup>th</sup> July 2015.

52. Niranjana M, Sharanappa Chapi, Archana K Raghu S and **Devendrappa H**  
Participated and presented a paper entitled “In-Situ Chemical Synthesis and Characterizations of Polyaniline Dodecylbenzene Sulfonic Acid Doped Nano Composite” presented in RAINSAT-2015 International Conference on Recent Advancement in Science & Technology was held at, Sathyabama University Chennai from 8-10<sup>th</sup> July 2015.
53. Archana Kamath Raghu S and **Devendrappa H**  
Presented a presented a paper entitled “Effect of Methyl Red Dye on Dielectric and Conductivity Properties of PEO/CdCl<sub>2</sub> Electrolytes” presented in icc-2015 International Conference on Recent Advancement in Science & Technology was held at Govt. Eng. College Bikaner from 30-31<sup>st</sup> Oct. 2015.
54. Niranjana M, Sharanappa Chapi, Raghu S, **Devendrappa H**  
Presented a paper entitled “Study of Structural and Thermal Properties of Polyaniline-V<sub>2</sub>O<sub>5</sub> Composites” presented in the Nanoscience, Nanotechnology & Advanced Materials in Visakapatnam, 14th – 17th December 2015 .
55. Niranjana M, Sharanappa Chapi, Raghu S, **Devendrappa H**  
Presented a paper entitled “ Influence of Zinc Nanoparticles Concentration on the Properties of Poly(ethylene oxide)/Poly(vinylpyrrolidone)/Zinc oxide Polymer Nanocomposites” presented in the Nanoscience, Nanotechnology & Advanced Materials in Visakapatnam, 14th – 17th December 2015 .
56. Niranjana M, Sharanappa Chapi, Yesappa L, Archana K Raghu S and **Devendrappa H**  
Participated and presented a paper entitled “Ternary Polyaniline Nano Composites for High Performance of Super capacitor Applications” presented in ICTmech-2016 International Conference on Material Science & Technology was held at University of Delhi, Delhi from 1-4<sup>th</sup> March 2016.
57. Niranjana M, Sharanappa Chapi, Yesappa L, Archana K, Raghu S and **Devendrappa H**  
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 1-4<sup>th</sup> March 2016.
58. Yesappa L, Niranjana M, Sharanappa Chapi, Archana K, Ragh S and **Devendrappa H**  
Participated and presented a paper entitled “ Optical Absorption and Morphology of Bio-Intercalated Polyaniline Composites ” presented in ICTmech-2016 International Conference on Material Science & Technology was held at, University of Delhi, Delhi from 1-4<sup>th</sup> March 2016.
59. Yesappa L, Vijeth H, Niranjana M, Sharanapaa Chapi, Raghu S, Ashokkumar S and **Devendrappa H**

Participated and Presented a paper entitled “ Synthesis, Characterization and Absorption Study of Aloe Vera doped Polyaniline Bio-Composite” presented in the ICSEM-2016 International Conference On Smart Engineering Materials, was held in RV college of Engineering Bengaluru, during 20-22 October 2016.

60. Niranjana M, Yesappa L, Sharanapaa Chapi, Raghu S, Ashokkumar S, Vijeth H and **Devendrappa H**

Participated and Presented a paper entitled “Optical, Electrical and Morphological Properties of Polyaniline Composites In The Presence of Chemical Oxidation Method ” presented in the ICSEM-2016 International Conference On Smart Engineering Materials, was held in RV college of Engineering Bengaluru during 20-22 October 2016.

61. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, Ragh S and **Devendrappa H**  
Participated and Presented a paper entitled “ Synthesis, Morphology and Optical Band Gap Studies of CuO Nano Particles Immersed Li/PANI Composite ” presented in the ISMC-2016, 6<sup>th</sup> Interdisciplinary Symposium on Materials Chemistry, held in BARC Mumbai during 6-10 December 2016.

62. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, Sharanappa Chapi, Ragh S, **Devendrappa H**

Participated and Presented a paper entitled “ Structure, Morphology and Optical Studies of Li<sup>+</sup> doped Polyaniline Composite ” presented in the 61<sup>st</sup> DAE Solid State Physics Symposium, was held at KIIT University Bhubaneswar, during 26-30 December 2016.

63. Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Sharanappa Chapi, Ragh S, **Devendrappa H**

Participated and Presented a paper entitled “ Optical and Electrical Studies of Vanadium Pentaoxide Doped Polyaniline Composite ” presented in the 61<sup>st</sup> DAE Solid State Physics Symposium, was held at KIIT University Bhubaneswar during 26-30 December 2016.

64. Vijeth, Ashokkumar S P, Yesappa L, Niranjana M, **Devendrappa H**

Participated and Presented a paper entitled “ Surfactant Assisted Surface Morphology and Thermal Properties of Polythiophene Composites ” presented in the Optics'17 A Conference on Light, was held in Calicut Kerala during 9-11 January 2017.

65. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, **Devendrappa H**

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.

66. Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, **Devendrappa H**

Participated and presented a paper on “Study of Structural and Thermal Properties of Polyaniline-V<sub>2</sub>O<sub>5</sub> composites” in 4th International Conference on Nanoscience and Nanotechnology (ICONN2017) held at SRM University, Chennai, Tamilnadu during 9-11 Aug 2017.



67. Ashokkumar S P, Yesappa L, Niranjana M, Vijeth H, Devendrappa H  
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.
68. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, Ganesh S, **Devendrappa H**  
Participated and presented a paper on “Increased Porous Morphology And Thermal Degradation Of Electron Beam Irradiated PVDF-HFP/LiClO<sub>4</sub> 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.
69. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, **Devendrappa H**  
Participated and presented a paper on “Morphology and Ionic Conductivity Studies of PVDF HFP/LiClO<sub>4</sub> Electrolyte Film Before and After Electron Beam Irradiation” in International Conference on International Conference on Advances in Polymer Science & Technology (APA-2017) held at Radisson Blu Hotel, New Delhi, during 23-25 November 2017.
70. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, **Devendrappa H**  
Participated and presented orally on “Structural and Optical Property Studies in 8 MeV Electron Beam Irradiated PVDF HFP Doped with LiClO<sub>4</sub> Electrolyte Film” in International Conference on International Conference on Advances in Polymer Science & Technology (APA-2017) held at Radisson Blu Hotel, New Delhi, during 23-25 November 2017.
71. Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, **Devendrappa H**  
Participated and presented a paper on “Optical, Electrical and Electrochemical Studies of copper oxide nanoparticles embedded polyaniline nanocomposites” in International Conference on International Conference on Advances in Polymer Science & Technology (APA-2017) held at Radisson Blu Hotel, New Delhi, during 23-25 November 2017.
72. Ashokkumar S P, Vijeth H, Yesappa L, Niranjana M, **Devendrappa H**  
Participated and presented a paper on “Structural and Thermal Properties of Polyaniline/Copper Oxide Nano Composites” in International Conference on International Conference on Advances in Polymer Science & Technology (APA-2017) held at Radisson Blu Hotel, New Delhi, during 23-25 November 2017.
73. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, Ganesh S, **Devendrappa H**  
Participated and presented a paper on “Electron Beam Irradiated Polymer Electrolyte Film: Morphology, Dielectric and AC Conductivity Studies” in 2<sup>nd</sup> International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
74. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, Basappa M, Ganesh S, **Devendrappa H**  
Participated and presented a paper on “Structure, Dielectric, Thermal and I-V Studies of Electron Beam Irradiated PVDF-HFP/LiClO<sub>4</sub> electrolyte film” in 2<sup>nd</sup> International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.

75. Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, **Devendrappa H**  
Participated and presented a paper on “Surface Morphology and Improved Electrical Conductivity of Camphorsulfonic acid Surfactant Based PANI Nano Composite” in 2<sup>nd</sup> International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
76. Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Basappa M, **Devendrappa H**  
Participated and presented a paper on “Enhanced Optical and Electrochemical Properties of Polyaniline/Cobalt oxide Nano Composite” in 2<sup>nd</sup> International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
77. Ashokkumar S P, Yesappa L, Vijeth H, Niranjana M, **Devendrappa H**  
Participated and presented a paper on “Electrical Conductivity and Morphology of Electrochemical Synthesized Polyaniline/CuO Nano Composites” in 2<sup>nd</sup> International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
78. Ashokkumar S P, Vijeth H, Yesappa L, Niranjana M, Vandana M, Basappa M, **Devendrappa H**.  
Participated and presented a paper on “Surface Morphology and Electrochemical Studies on Polyaniline/CuO Nano composites” in 2<sup>nd</sup> International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
79. Basappa M, Yesappa L, Niranjana M, Ashokkumar S P, Vandana M, Vijeth H, **Devendrappa H**  
Participated and presented a paper on “Structural & Optical Band Gap of PEO/PVP Polymer Blend” in 2<sup>nd</sup> International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25, November 2017.
80. Vijeth H, Yesappa L, Niranjana M, Ashokkumar S P, **Devendrappa H**  
Participated and presented a paper on “Investigation on Structural, Optical and Electrical Properties of Polythiophene-Al<sub>2</sub>O<sub>3</sub> Composites” in 2<sup>nd</sup> International Conference on Condensed Matter & Applied Physics (ICC-2017) held at Govt. Engineering College, Bikaner-Rajasthan during 24-25 November 2017.
81. **Devendrappa H**, Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, Ganesh S  
Participated and presented a paper on “Morphology, Optical and Ionic Conductivity Studies of Electron Beam Irradiated Polymer Electrolyte Film” in 62<sup>nd</sup> DAE Solid State Physics Symposium (DAE SSPS 2017) held at BARC, DAE Convention Centre, Anushaktinagar, Mumbai, Maharashtra on 26-30 Dec 2017.
82. Vijeth H, Niranjana M, Yesappa L, Ashokkumar S P, **Devendrappa H**  
Participated and presented a paper on “Polythiophene nanocomposites as high performance electrode material for supercapacitor application” in 62<sup>nd</sup> DAE Solid State Physics Symposium (DAE SSPS 2017) held at BARC, DAE Convention Centre, Anushaktinagar, Mumbai, Maharashtra on 26-30 Dec 2017.
83. Vandana M, Ashokkumar SP, Vijeth H, Niranjana M, Yesappa L, **Devendrappa H**  
Participated and presented a paper on “Synthesis and characterization of graphene quantum

dots-silver nanocomposites” in 62<sup>nd</sup> DAE Solid State Physics Symposium (DAE SSPS 2017) held at BARC, DAE Convention Centre, Anushaktinagar, Mumbai, Maharashtra on 26-30 Dec 2017.

84. Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, Vandana M, Ganesh Sanjeev, **Devendrappa H**  
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.
85. Niranjana M, Yesappa L, Ashokkumar S P, Vijeth H, Vandana M, Basappa M, **Devendrappa H**  
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.
86. Basappa M, Yesappa L, Niranjana M, Ashokkumar S P, Vijeth H, **Devendrappa H**  
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.
87. Vijeth H, Yesappa L, Niranjana M, Ashokkumar S P, Vandana M, **Devendrappa H**  
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.
88. Yesappa L, Ashokkumar S P, Vijeth H, **Devendrappa H**  
Participated and presented a paper on “ATR (Attenuated Total Reflectance) FT-IR Spectroscopy for trace evidence in forensic science” in National Conference on “Instrumental Methods of Analysis-2018” held at Jagadguru Tontadarya College Gadag-Betageri-582 101, Karnataka during 29 September 2018.
89. Yesappa L, Ashokkumar SP, Vijeth H, Vandana M, Basappa M, Niranjana M, Ganesh S, **Devendrappa H**  
Participated and presented a paper on “Electron Beam Irradiation Effect on Structure, Morphology and Optical Properties of PVDF-HFP/PEO Polymer blend electrolytes” in 4<sup>th</sup> 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.

90. Ashokkumar SP, Vijeth H, Yesappa L, Vandana M, **Devendrappa H**  
Presented a paper on “Lower Optical Band Gap and Morphology of Electrochemically Synthesized Polyaniline/CuO Nanocomposite” in 63<sup>rd</sup> DAE Solid State Physics Symposium (DAE SSPS 2018) held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana during 18-22 Dec 2018.
91. Vijeth H, Ashokkumar SP, Yesappa L, Vandana M and **Devendrappa H**  
Presented a paper on “Photocatalytic Degradation of Methylene Blue and Rhodamine B Using Polythiophene Nanocomposite under Visible and UV light” in 63<sup>rd</sup> DAE Solid State Physics Symposium (DAE SSPS 2018) held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana during 18-22 Dec 2018.
92. Vandana M, Ashokkumar SP, Vijeth H, Yesappa L, and **Devendrappa H**  
Presented a paper on “Synthesis and Characterization of Polypyrrole-Graphene Quantum Dots Nanocomposite for Supercapacitor Application” in 63<sup>rd</sup> DAE Solid State Physics Symposium (DAE SSPS 2018) held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana during 18-22 Dec 2018.
93. Vijeth H, Yesappa L, Ashokkumar SP, Vandana M, **Devendrappa H**  
Presented a paper on “Influence of Nickel Oxide Nanoparticles on the Structure, Electrical and Dielectric Properties of Polypyrrole Nanocomposite” in International Conference on Advances in Basic Sciences (ICABS-19) held at Bahal, Haryana during 7-9 Feb 2019.
94. Vijeth H, Yesappa L, Ashokkumar SP, Vandana M, **Devendrappa H**  
Presented a paper on “Influence of Nickel Oxide Nanoparticles on the Structure, Electrical and Dielectric Properties of Polypyrrole Nanocomposite” in International Conference on Advances in Basic Sciences (ICABS-19) held at Bahal, Haryana during 7-9 Feb 2019.
95. Vijeth H, Yesappa L, Ashokkumar SP, Vandana M, **Devendrappa H**  
Presented a paper on “Soft Template Approach for Synthesis of Polypyrrole Nanotube decorated with MoS<sub>2</sub> quantum dot for All Solid State Supercapacitor Applications” in International Conference on Physics of Materials and Nanotechnology held at Mangalore University, Mangalore during 19-21, September 2019.
96. Vandana M, Ashokkumar SP, Vijeth H, Niranjana M, Yesappa L, **Devendrappa H**  
Participated & presented a paper entitled “Synthesis and Characterization of reduced graphene oxide for supercapacitor application” in ICPN 2019 organized by Mangalore university mangalagotri, India during 19-21st September 2019.
97. Vandana M, Vijeth H, Ashokkumar S P, & **Devendrappa H**  
Participated & presented a paper entitled “Graphene quantum dots doped conducting polymer nanocomposite for high performance supercapacitor application” in ICNAN-2019 organized by Vellore Institute of Technology, India during 29 Nov-1st December 2019..

98. **Devendrappa H**, Ashokkumar S P, Vijeth H, Yesappa L, Vandana M, Veeresh Shanthappa, Ganesh Honnu, and Nagaraju Yennappa Siddappa. Participated & presented a paper entitled “Structure and Optical Band Gap Study of Electrochemically Synthesized Polyaniline/ZnO Nanocomposite for Energy Storage Devices” in ICPN 2019 organized by Mangalore University mangalagotri, India, 19-21<sup>st</sup> September 2019.
99. Ashokkumar S P, Vijeth H, Yesappa L, Vandana M, Veeresh S, Ganesh H, and Nagaraju Y S. **Devendrappa H** Participated & presented a paper entitled “Structure and Optical Band Gap Study of Electrochemically Synthesized Polyaniline/ZnO Nanocomposite for Energy Storage Devices” in ICPN 2019 organized by Mangalore University Mangalagangotri, India during 19-21<sup>st</sup> September 2019.
100. Yesappa L, Vandana M, Veeresh S, Ganesh H, and Nagaraju Y S, **Devendrappa H** Participated & presented a paper entitled “Cyclic Voltammetry, Morphology and Thermal Studies of Electrochemically Synthesized PANI/CuO Nanocomposite for Supercapacitor Application” in ICPN 2019 organized by Mangalore University, Mangalagangotri, India during 19-21<sup>st</sup> September 2019., Ashokkumar S P, Vijeth H.
101. Ganesh H, Veeresh S, Nagaraju Y S, Vandana M, Ashokkumar S P, Yesappa L, and Vijeth H. **Devendrappa H** Participated & presented a paper entitled “Synthesis of Nanorod Structured Polyaniline Nanofiber for High Electrochemical Efficiency” in ICPN 2019 organized by Mangalore University Mangalagangotri, India during 19-21<sup>st</sup> September 2019.,
102. Ganesha H, Veeresh S, Nagaraju Y S, Vandana M, Ashokkumar S P, Yesappa L, and Vijeth H. **Devendrappa H** Participated & presented a paper entitled “Polymer Quantum dots composite for electrochemical glucose detection” in ICPN 2019 organized by Mangalore University, Mangalagangotri, India during 19-21<sup>st</sup> September 2019.,
103. Veeresh S, Ganesh H, Nagaraju Y S, Vandana M, Ashokkumar S P, Yesappa L, and Vijeth H. **Devendrappa H** Participated & presented a paper entitled “Optical, morphology and electrode properties of Reduced Graphene Oxide” in ICPN 2019 organized by Mangalore University Mangalagangotri, India during 19-21<sup>st</sup> September 2019.
104. Veeresh S, Ganesh H, Nagaraju Y S, Vandana M, Ashokkumar S P, Yesappa L, and Vijeth H. **Devendrappa H.** Participated & presented a paper entitled “Synthesis and Characterization of Reduced Graphene Oxide for Energy Storage Application” in ICPN 2019 organized by Mangalore University Mangalagangotri, India during 19-21<sup>st</sup> September 2019.

105. Nagaraju Y S, Veeresh S, Ganesh H, , Vandana M, Ashokkumar S P, Yesappa L, and Vijeth H, **Devendrappa H**  
Participated & presented a paper entitled “To study the Synthesis and characterization of ZnO hexagonal nano cubes with Hydrothermal Growth and Formation Mechanism.” in ICPN 2019 organized by Mangalore University, Mangalagangothri, India during 19-21st September 2019.
106. Nagaraju Y S, Veeresh S, Ganesh H, , Vandana M, Ashokkumar S P, Yesappa L, and Vijeth H. **Devendrappa H**  
Participated & presented a paper entitled “Facile Hydrothermal synthesis of Zn-doped SnO<sub>2</sub> for crystallographic facet-oriented polyhedral Structure” in ICPN 2019 organized by Mangalore University, Mangalagangothri, India during 19-21st September 2019.,
107. Nagaraju Y S, Ganesha H, Veerasha S, Vandana M, Ashokkumar S P, Vijeth H, **Devendrappa H**  
Participated & presented a paper entitled “Single crystalline hierarchical SnO<sub>2</sub> microsphere and fluoride-mediated hollow structures for photocatalytic activity” in ICNAN-2019 organized by Vellore Institute of Technology, India during 29 Nov-1st December 2019.
108. Nagaraju Y S, Ganesha H, Veerasha S, Vandana M, Ashokkumar S P, Vijeth H, **Devendrappa H**  
Participated & presented a paper entitled “Single crystalline hierarchical SnO<sub>2</sub> microsphere and fluoride-mediated hollow structures for photocatalytic activity” in ICNAN-2019 organized by Vellore Institute of Technology, India during 29 Nov-1st December 2019.
109. Ganesha H, Veerasha S, Nagaraju Y S, Vandana M, Ashokkumar S P, Vijeth H, **Devendrappa H**  
Participated & presented a paper entitled “Growth of 3-Dimensional MoS<sub>2</sub>-PANI Nanofiber for high electrochemical performance” in ICNAN-2019 organized by Vellore Institute of Technology, India during 29 Nov-1st December 2019.
110. Nagaraju YS, Ganesha H, Veerasha S, Vandana M, Ashokkumar SP, Vijeth H, **Devendrappa H**  
Participated and presented a paper entitled “Single crystalline hierarchical SnO<sub>2</sub> microsphere and fluoride-mediated hollow structures for photocatalytic activity” DAE-SSPS 2019 held at Indian Institute of Technology Jodhpur, Rajasthan during December 18-22, 2019.
111. Veeresh S, Ganesha H, Nagaraju Y S, Vandana M, Ashokkumar S P, Yesappa L, Vijeth H, **Devendrappa H**  
Participated and presented a paper entitled “UV-irradiation induced synthesis of reduced graphene quantum dots” DAE-SSPS 2019 held at Indian Institute of Technology Jodhpur, Rajasthan during December 18-22, 2019.
112. Ganesha H, Veeresh S, Nagaraju Y S, Vandana M, Basappa M, Vijeth H, **Devendrappa H**  
Participated and presented a paper entitled “Electrochemical analysis of Polyaniline/Graphene oxide composite for supercapacitor application” in ICPN-2021 E-Conference organized by Department of Physics at Mangalore University.

113. Veeresh S, Ganesha H, Nagaraju Y S, Vandana M, Basappa M, Vijeth H, **Devendrappa H** Participated and presented a paper entitled “Optical and Morphological of reduced graphene quantum dots for electrochemical application” in ICPN-2021 E-Conference organized by Department of Physics at Mangalore University.
114. Basappa M, Ganesha H, Veeresh S, Nagaraju Y S, Vandana M, Vijeth H, **Devendrappa H** Participated and presented a paper entitled “Investigate the Optical, Structural and electrochemical properties of PVC/PMMA/NiO blend films” in ICPN-2021 E-Conference organized by Department of Physics at Mangalore University.
115. Suresh D S, Vandana M, Veeresh S, Ganesha H, Nagaraju Y S, Basappa M, Vijeth H, **Devendrappa H** Participated and presented a paper entitled “Low Cost Synthesis and Characterization of Donor P3HT Polymer for Fabrication of Organic Solar Cell” in ICPN-2021 E-Conference organized by Department of Physics at Mangalore University.
116. Ganesha H, Veeresh S, Nagaraju Y S, Vandana M, Basappa M, Vijeth H, **Devendrappa H** Participated and presented a paper entitled “Polymer incorporated with transition metals composite for enhanced electrochemical performance” in ICASETM-Conference organized by IFERP held at Dubai (UAE).
117. Veeresh S, Ganesha H, Nagaraju Y S, Vandana M, Basappa M, Vijeth H, **Devendrappa H** Participated and presented a paper entitled “Structural, morphological characterization of Nitric acid and potassium hydroxide activated carbon composite” in ICASETM-Conference organized by IFERP held at Dubai (UAE).
118. Nagaraju Y S, Ganesha H, Veeresh S, Vandana M, Basappa M, Vijeth H, **Devendrappa H** Participated and presented a paper entitled “The Novel 3-D Helical rod-like structured porous carbon derived from Ganoderma Lucidem spore for high-performance electrochemical supercapacitor” in ICASETM-Conference organized by IFERP held at Dubai (UAE).
119. Sapna Sharanappa, SP Vijaykumar, DS Suresh, Abdullah Ba Shbil, H Ganesha, S Veeresh, YS Nagaraju, **H Devendrappa** Participated and presented a paper entitled “Nitrogen- doped Carbon Quantum dots-Polypyrrole composite electrode for high energy storage application” in international e-Conference on Nanomaterials and Nanoengineering APA NANOFORUM during July 14-16, 2022.
120. S P Vijaykumar, Sapna Sharanappa, DS Suresh, Abdullah Ba Shbil, H Ganesha, S Veeresh, YS Nagaraju, **H Devendrappa** Participated and presented a paper entitled “Micelles self-degraded template based 2D graphitic carbon nitride-polypyrrole nanotube composite electrode for high supercapacitor performance” in international e-Conference on Nanomaterials and Nanoengineering APA NANOFORUM during July 14-16, 2022.
121. Suresh D S, Veeresh S, Ganesh H, Nagaraju Y S, Vijaykumar S P, Sapna S, **Devendrappa H** Participated and presented a paper entitled as “Synthesis, Characterization of Cadmium Sulfide doped Polymer P3HT for Energy Storage Applications” in the 66<sup>th</sup> DAE Symposium

(DAE SSPS -2022) organized by BARC, Mumbai at Birla Institute of Technology Mesra, Ranchi held from 18<sup>th</sup> - 22<sup>nd</sup> December, 2022.

122. Suresh D S, Abdullah Ba Shbil, Sapna Sharanappa, Vijaykumar S P, Ganesha H, Veeresh S, Nagaraju Y S, **Devendrappa H**

Participated and presented a paper entitled *as* “Graphene Oxide Incorporated and Solvent treated porous morphology of carbonized eggshells for high performance energy storage applications” in the ICTN-KLC-2023 organized by Department of Physics, IIT Madras held from 6<sup>th</sup> – 8<sup>th</sup> July, 2023.

123. Suresh D S, Sapna Sharanappa, Vijaykumar S P, Abdullah Ba Shbil, Ganesha H, **Devendrappa H**

Participated and presented a paper entitled as “Optical Study of Co-Sensitization of Betanin dye with Cadmium Sulfide for the Fabrication of Dye Sensitized Solar Cell” in the ICARGET-2023 organized by Department of Mechanical Engineering, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh held from 07<sup>th</sup> – 08<sup>th</sup> December 2023.

124. Suresh D S, Vijaykumar S P, Abdullah Ba Shbil, Sapna Sharanappa, Ganesh H and **Devendrappa H**

Participated and presented a paper entitled “Nano-Flake Morphology of Carbonized Aluminum Doped Betel Green Leaves and its Dye Extract for Energy Conversion and Storage Applications” in AFMD-2024 Conference organized by Nanotechnology Research Centre at SRM University, Chennai from 26-29 February, 2024.

125. Sapna Sharanappa, SP Vijaykumar, DS Suresh, Abdullah Ba Shbil, H Ganesha, **H Devendrappa**

Participated and presented a paper entitled “One pot hydrothermal green Synthesis and characterization of tamarind seed husk derived carbon quantum dots for energy storage applications.” International Conference on Emerging Advances and Applications in Green Energy (ICEAAGE-2024) Organized by Department of Electrical and Electronics Engineering on 29th February 2024. Prasad V. Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada, Andhra Pradesh, India.

### **Guest Editor for books publication**

1. ICPN-2019 International conference papers published in AIP conference proceedings, volume 2244, 2020, ISBN-978-0-7453-2003-8. ([scitation.org/journal/apc](https://scitation.org/journal/apc)).
2. ICPN-2021 International E-conference papers published in IOP conference ; Material Science & Engineering (<https://iopscience.iop.org/issue/1757-899X/1221/1>, volume 1221,2022).
3. ICPN-2023 International conference papers published in IOP conference; Material Science & Engineering (<https://iopscience.iop.org/issue/1757-899X/1300/1>, volume 1300,2024).



## Research Projects:

**Total Funding of Research Projects: 1,24,93,400/-**

### Completed projects

- i) The UGC- major research project sanctioned for “**A Study on Transport and Electrochemical Cell parameters of PEO with Conducting Polymer Composites** “completed successfully.(5.23 Lakhs, Period 2007-10) F No. 32-49/2006(SR) dated 22-02-2007.
- ii) **DAE -BRNS-** Major Research Project Entitled **Electron Irradiation Effect on Characterization and Dielectric Properties of Polymer Electrolyte** (21.61 Lakhs, Period 2010-13), Project Sanction letter No. 2010/34/24/BRNS dated 28-07-2010).
- iii) **DST-SERB New Delhi** Major Research Project Entitled “**Study Of Optical Properties In Doped Polymer Electrolyte**” (25,15,200/-, Period 2012-15), Project Sanction letter No. SR/S2/CMP-0018/2011 dated 19-01-2012).
- iv) **UGC New Delhi** Major Research Project Entitled “**Study Of Electrical and Optical Properties of Doped Polymer Electrolyte Film**” (11,98,000/- Period 2012-15), Project Sanction letter No. F.No.41-879/2012/SR dated 25<sup>th</sup> July 2012.
- v) **SERB, Delhi** Major Research Project Entitled “**Study of electrochemical parameters of polymer electrolytes**” (48,49,200/- period 2013-16),Project sanction letter no. SERB/F/4506/2013-14 dated 11.10.2013.
- vi) **DAE -BRNS-** Major Research Project Entitled “***Electron Beam Irradiated Polymeric Materials for Opto-Electronics devices applications***” (Rs.12.47 Lakhs, Period 2015-16), Project Sanction letter No. 34(1)/14/39/2014-BRNS/ dated 10-12-2014).
- vii) **DST-SERB, Delhi** Major Research Project Entitled “**Comparative studies on fullerene and Non-fullerene based solar cells**” (34.5 Lakh/- period 2019-21), Project sanction letter no.SERB/F/11204/2018-2019 dated 15.02.2019.

### Ongoing project

- viii) **DST-SERB, Delhi** Major Research Project Entitled “ **Synthesis and fabrication of Renewable Bio-based 2D porous carbon composite for supercapacitor application**” (49.17 Lakh/- period 2023-26), Project sanction letter no.SERB EEQ/2022/000458 dated 01 March, 2023.

### Research Scholars awarded/working under my supervision:

Sl.No	Name	Course	Joining/Awarded Year	Status
1.	Manjunath V	Ph D Programme	2017	Awarded
2.	Subramanya K	Ph D Programme	2015	Awarded
3.	Raghu S	Ph D Programme	2015	Awarded
4.	Sharanappa Chapi	Ph D Programme	2016	Awarded
5.	Archana K	Ph D Programme	2016	Awarded
6.	Mini V	Ph D Programme	2016	Awarded
7.	Niranjan	Ph D Programme	2018	Awarded
8.	Yesappa L	Ph D Programme	2019	Awarded
9.	Ashokumar S P	Ph D Programme	2021	Awarded
10.	Vijeth	Ph D Programme	2021	Awarded
11.	Vandana M	Ph D Programme	2021	Awarded
12.	Basappa M	Ph D Programme	2021	Awarded
13.	Nagaraju Y S	Ph D Programme	2018	Awarded
14.	Veeresh S	Ph D Programme	2018	Awarded
15.	Ganesh H	Ph D Programme	2018	Awarded
16.	Suresh D S	Ph D Programme	2020	On-Going
17.	Vijykumar S P	Ph D Programme	2021	On-Going
18.	Abdullah Ba Shbil	Ph D Programme	2021	On-Going
19.	Sapna Sharanappa	Ph D Programme	2021	On-Going
20.	T Netra	JRF- SERB Project	2024	On-Going

❖ **No. of Ph D awarded : 15**

❖ **Thesis submitted : 00**

❖ **No. of Ph D working : 04**

### Conference Organised:

1. **Member of local organised Committie**, National conference on Particle Accelerators in Interdisciplinary Research (PAIR).
2. **Member of local organised Committie**, International Conference on Recent Advances in Materials Science and Biophysics (RAMSB-2018).
3. **Convenor**, International Conference on Physics of Materials and Nanotechnology (ICPN-2019) during Septmber 19-21,2019.
4. **Convenor**, One day Webinor on Advanced Materials for Energy Applications -2021 during May 31,2021.
5. **Convenor**, International E-Conference on Physics of Materials and Nanotechnology (ICPN-2021) during Septmber 28-30, 2021.

6. **Convenor**, International Conference on Physics of Materials and Nanotechnology (ICPN-2023) during Septmber 21-23, 2023.

#### **Foreign visit:**

Visited to department of Material Science Laboratory, Rouen University Rouen, France for Presentation (oral) of my research paper in **POLYCHAR 17** during 20-24<sup>th</sup> April 2009.

#### **Students Foreign visit**

1. Subramanya K : Visited Singapore to present a research paper.
2. Yesappa L : Visited to Amity University Dubai to present a research paper in ICAMMS-2017 during October 4-7, 2017.
3. Vijeth : Presented Paper at Nanotech France 2019 International Conference held at Paris France during June 26-28, 2019.
4. Ashokkumar S P : Presented Paper at Nanotech France 2019 International Conference held at Paris France during June 26-28, 2019.
5. Ganesha H : Participated and presented a Paper in ICASET-2021 International Conference held at Dubai (UAE) during 29<sup>th</sup> and 30<sup>th</sup> December 2021.
6. Veeresh S : Participated and presented a Paper in ICASET-2021 International Conference held at Dubai (UAE) during 29<sup>th</sup> and 30<sup>th</sup> December 2021.
7. Nagaraju Y S : Participated and presented a Paper in ICASET-2021 International Conference held at Dubai (UAE) during 29<sup>th</sup> and 30<sup>th</sup> December 2021.

#### **Reviewer to the International Journals:**

1. Journal of applied Polymer Science-Wiley publication
2. Synthetic Metals- Elsevier
3. Journal of Applied Polymer Science- Elsevier
4. Polymer Engineering and Science- Wiley publication
5. IONICS" journal: Springer link publication
6. Radiation Effects & Defects in Solids: Taylors publication
7. J. of Physics D: Applied Physics : IOP publication
8. Polymer: Elsevier
9. Material Research Express: IOP
10. Omega: ACS
11. Journal of Electroacta:Elsevier
12. RSC Advance: RSC
13. Results in Physics: Elsevier
14. Applied Physics A: Springer
15. Diamond and Related Material- Elsevier
16. Journal Energy storage-Elsevier

### Fellowships/awards received by the faculty:

1. Raghu S, Subramanya Kilarkaje, Ganesh Sanjeev, **Devendrappa H**  
Best poster presentation award for the paper entitled “Electron Beam Induced changes in Dielectric Properties of Polymer Electrolyte films” in International Conference on Recent Advances in Material Science (RAMS-2012), Bangalore. Nov. 6-8<sup>th</sup> 2012.
2. Archana K, Raghu S, Subramanya K, Sharanappa C, Mini V, **Devendrappa H**  
Best poster presentation award for paper entitled “Optical Transmittance & Reflectance of Methyl Blue Dye Doped Polyethylene Oxide Films” participated and presented in APA-2014 International Conference on Polymer: Vision & Innovation was held at IIT New Delhi, Feb.19-21 2014.
3. Suresh D S, Vijaykumar S P, Abdullah Ba Shbil, Sapna Sharanappa, Ganesh H, **Devendrappa H**  
Best poster presentation award for paper entitled “Nano-Flake Morphology of Carbonized Aluminum Doped Betel Green Leaves and its Dye Extract for Energy Conversion and Storage Applications” in AFMD-2024 Conference organized by Nanotechnology Research Centre at SRM University, Chennai from 26-29 February, 2024.

### Membership/participation in bodies/committees on Education development

1. Life Member of The Society for Polymer Science, India.
2. Member of “Asian Polymer Association” ( Membership No:L361 )
3. Member of Physics Association, Dept. of Physics, Mangalore University, Mangalagangothri.
4. Member, Department of studies in Physics, Mangalore University, Mangalagangothri
5. Member of the Mangalore University Employee Co-operative Society, Mangalagangothri.
6. Member, Mangalore University Teacher Association, Mangalore Univ., Mangalagangothri.
7. General Seceratory of SC/ST Employee Association Mangalore University.

#### Administrative Committees

1. Member – BOS PG in Physics, Mangalore University.
2. Member – BOAE in Physics, Kuvempu University.
3. Member – M Sc Admission Committee – Physics.
4. Member – M Sc Admission Committee - Yogic Science.
5. Member – Ph D Admission Committee – Physics.
6. Member – BOS PG in Physics, Gulabrag University.
7. Member – BOS PG in Physics, Bangalore University.

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

Place: Mangalagangothri

Date:



(Devendrappa H)