

Detailed CV



Name Dr. V. Ravindrachary

Educational Qualification M.Sc., Ph.D.

Designation Professor

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Mangalore University,
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Research Areas Microstructure studies on polymers and other materials using Positron
Annihilation Spectroscopy

Growth and characterization of nonlinear optically active single crystals

Professional Teaching Experience: 33 Years (5 Years UG and 28 Years PG)

Period	Designation	Place of Work
2011- till	Professor	Department of Physics, Mangalore University
2008- 2011	Associate Professor	-do-
2005-08	Reader	-do-
2000-05	Lecturer (Senior Scale)	-do-
1997 –2000	Lecturer	-do-
1996-97	Lecturer	Sri Mahadeshwara College Kollegal

1993-96	Lecturer	Dept of Physics FMKMC College, Madikeri
1987-88	Lecturer	Dept of Physics, AVK College, Davangere

Research Guidance (M.Phil. /Ph.D.):

Completed M.Phil 01 : T Sheela

Completed Ph.D. 06 : Vincent Crasta (<https://www.sjec.ac.in/faculty-display.php?id=205>)

R F bhajantri (<https://www.kud.ac.in/Profile/Dr.R.F.Bhajantri.pdf>)

A Harisha

P C Rajesh Kumar (<https://www.sjec.ac.in/faculty-display.php?id=206>)

Ismayil (<https://manipal.pure.elsevier.com/en/persons/ismayil-ismayil>)

S D Praveena (<http://www.kvgenng.com/Images/Dept/basicscience/phy/pdf/Dr.%20Praveen%20S%20D.pdf>)

Ongoing Ph.D. 08 : Guruswamy B

Rohan N Sagar

Shruthi C

Shreedatta Hegde

Mahantesha B K

Padmakumari R

Sahanakumari R

Pratheeka tegginamata

Research Projects

Completed DAE-BRNS project Entitled “Electron Irradiated Polymer Microstructure Study using Positron Annihilation Spectroscopy” of Rs. 26, 79, 750, (2006-09).

Electron and UV irradiation induced Microstructural Studies of Polymer based Nanocomposites. (01-05-2009 to 30-04-2012), Rs. 2.4 lakhs (Co-Investigator) – UGC.

Mechanical and Positron annihilation Studies on electron irradiated polymer Nanocomposites (01-08-2010 to 31-07-2013), Rs.18.97 lakh (Co-Investigator)- DAE-BRNS

Professional Collaboration

National 1) Dr. P.K. Pujari, SO (H), Radiochemistry Division, Bhabha Atomic Research Centre, Mumbai.

2) Prof. R F Bhajantri and Dr. B Lobo, Department of studies in Physics, Karnataka University, Dharwad.

Research Journal Publications

International/National

1. Molecular Structure, Hirshfeld Surface and Density Functional Theoretical Analysis of a NLO active Chalcone Derivative Single Crystal – A Quantum Chemical Approach, C. Shruthi, V. Ravindrachary, B.Guruswamy, D. Jagadeesh Prasad, Janet Goveas, Karthik Kumara, N. K. Lokanath.
J molecuar Structure (Accepted) doi.org/10.1016/j.molstruc.2020.129739 **Impact factor - 2.463**
2. Microstructural, Morphological and Electrical Properties of ZnSe doped Sodium Alginate, R Sahanakumari, V Ravindrachary, B K Mahantesha, R Padmakumari, Pratheeka Tegginamata, *AIP Conf. proc.* 2244 (2020) 080003, **Impact factor – 0.40**
3. Effect of Electron Irradiation on Optical, Thermal and Electrical Properties of LiClO₄/PVA Polymer Composite, B K Mahantesha, V Ravindrachary, R Padmakumari, R Sahanakumari, Rohan N Sagar, Pratheeka Tegginamata, Ganesh Sanjeev, A S Mishra, *AIP Conf. proc.* 2244 (2020) 090002, **Impact factor – 0.40**
4. Photoluminescence and Density Functional Theory Analysis of Novel NLO Chalcone Single Crystal C Shruthi, V Ravindrachary, B Guruswamy, Jagadeesh Prasad D, Janet Goveas, *AIP Conf. proc.* 2244(2020)060005, **Impact factor – 0.40**
5. Thermal, Surface Morphological and Electrical Properties of Nylon-6, Pratheeka Tegginamata, V Ravindrachary, B K Mahantesha, R Sahanakumari, R Ramani, T M Kotresh, S Ananth, *AIP Conf. proc.* 2244 (2020) 070022 **Impact factor – 0.40**
6. Microstructural, dielectric, and transport properties of proton-conducting solid polymer electrolyte for battery applications. Shreedatta Hegde, V Ravindrachary, S. D Praveena, B Guruswamy, RN Sagar. *Ionics*, 1-16, 2020, **Impact factor – 2.394**
7. Evaluation of structural, Hirshfeld surface and density functional theory of novel NLO thienyl chalcone single crystal. C Shruthi, V Ravindrachary, B Guruswamy, D. J Prasad, J Goveas. *SN Applied Sciences* 1 (12)(2019)1697
8. Growth and characterization of 2-bromo-5-methoxybenzohydrazide derivative—a nonlinear optical single crystal. C Shruthi, V Ravindrachary, B Guruswamy, S. M Kumar, D. J Prasad. *Materials Research Express* 6 (12)(2019)125105, **Impact factor – 1.929, Citations – 1.**

9. Surface, Temperature and Optical Properties Pd-TiO₂ doped PVA Nanocomposite B Guruswamy, V Ravindrachary, C Shruthi, M Mylarappa, G O Obanna, *Material Science Forum* 962(2019)77-81, 2019, **Impact factor – 0.35**
10. Effect of SnO₂ Nanoparticle doping on Structural, Morphological and thermal properties of PVA-PVP polymer blend B Guruswamy, V Ravindrachary, C Shruthi, M Mylarappa, *Material Science Forum* 962(2019)82-89 **Impact factor– 0.35**
11. Growth and Characterization of (E)-1-(5-chlorothiophene-2-yl)-3-(4-dimethylamino)phenylprop-2-en-1-one, novel NLO Single Crystal C Shruthi, V Ravindrachary, K Byrappa, B Guruswamy, D Jagadeesh Prasad, Karthik Kumara, N K Lokanath, *Material Science Forum* 962(2019)3-9, **Impact factor – 0.35 Citations - 1**
12. Synthesis, Optical and Thermal properties of 1-(4-methoxy phenyl)-2-((5-(1-(naphthalen-1-yloxy)ethyl)-[1,3,4]-oxadiazol-2-yl)sulfanyl)ethanone - A novel Heterocyclic compound, C Shruthi, V Ravindrachary, K Byrappa, B Guruswamy, Janet Goveas, Karthik Kumara, N K Lokanath, *Material Science Forum* 962, (2019)10-16, **Impact factor – 0.35**
13. Microstructural, Relaxation and Transport Properties of Electron Irradiated Ion Conducting Polymer Electrolyte for Solid State Battery Applications, Mahantesha B K, Ravindrachary V , Padmakumari R, Sahanakumari R, Shreedatta Hegde, Pratheeka Tegginamata, Ganesh Sanjeev, Verm V P, *Journal of Physics: Conference Series*, 1172 (2019) 012030, **Impact factor – 0.540, Citations - 2**
14. Dopant Dependent Microstructural and Fluorescence Properties of Biodegradable Polymer Films for DSSC application, Padmakumari R, Ravindrachary V, Mahantesha B K, Sahanakumari R, Bhajantri R F, and Mallikarjun H Anandalli *Journal of Physics: Conference Series*, 1172 (2019) 012079, **Impact factor – 0.540, Citations - 1**
15. Transport and Diffusion Properties in PEO-BaCl₂ Polymer Electrolytes for Battery Applications Rohan N Sagar, V Ravindrachary, Shreedatta Hegde, B Guruswamy, *Journal of Physics: Conference Series*, 1172 (2019) 012078, **Impact factor – 0.540**
16. Modification of Microstructural, Optical and Electrical Properties of PVA by Zinc Ferrite Nano Fillers Sahanakumari R, Ravindrachary V, Mahantesha B K, Padmakumari R, Pratheeka Tegginamata, *Journal of Physics: Conference Series* 1172 (2019) 012077, **Impact factor – 0.540**
17. Effect of electron irradiation on optical, thermal and electrical properties of polymer electrolyte, Mahantesha B K, Ravindrachary V, Padmakumari R, Sahanakumari R, Pratheeka Tegginamata, Ganesh Sanjeev, Petwal V C, Verma V P, *Journal of Radioanalytical and Nuclear Chemistry*, 322 (1)(2019)19-27 **Impact factor – 1.186, Citations - 5**

18. Electron beam induced modifications in the microstructure of PVA/Li₂B₄O₇ polymer films: Positron annihilation study, Ismayil, V. Ravindrachary, Ganesh Sanjeev, SD Praveena, *Radiation Physics and Chemistry*, 151 (2018) 69-76. **Impact factor – 2.226, Citations – 2.**
19. Microstructural, thermal and electrical properties of electron irradiated Li₂CO₃ doped PVA, B K Mahanthesha, V Ravindrachary, R Padmakumari, R Sahanakumari, Ganesh Sanjeev and V P Verma, *Indian Journal of Pure & Applied Physics* 56 (2018) 616-620. **Impact factor – 0.653, Citations – 5.**
20. Modification of fluorescence and optical properties of Rhodamine B dye doped PVA/Chitosan polymer blend films, R Padmakumari, V Ravindrachary, B K Mahanthesha, Rohan N Sagar, R Sahanakumari, RF Bhajantri, *AIP Conf. Proc.* 1953, (2018) 030248-1–030248-4, **Impact factor – 0.40**
21. Synthesis, structural, thermal and Hirshfeld surface analysis of novel [1,2,4]triazolo[3,4-b][1,3,4] thiadiazine carrying 1,4-benzothiazine-3-one moiety, C Shruthi, V Ravindrachary, B Guruswamy, N K Lokanath, Karthik Kumara, Janet Goveas, *AIP Conf. Proc.* 1953 (2018) 070026-1– 070026-4, **Impact factor – 0.40**
22. Effect of TiO₂ nanoparticles doping on structural and electrical properties of PVA: NaBr polymer electrolyte, Rohan N Sagar, V Ravindrachary, B Guruswamy, Shreedatta Hegde, B K Mahanthesha, R Padma Kumari, *AIP Conf. Proc.* 1953, (2018) 030216-1– 030216-4, **Impact factor – 0.40, Citations - 2**
23. Synthesis, crystal structure, NLO and Hirshfeld surface analysis of 1, 2, 3-triazolyl chalcone single crystal, C Shruthi, V Ravindrachary, B Guruswamy, N K Lokanath, Karthik Kumara, Janet Goveas, *AIP Conf. Proc.* 1953 (2018) 070027-1– 070027-4, **Impact factor – 0.40**
24. Optical, thermal and morphological study of ZnS doped PVA polymer nano composites, B Guruswamy, V Ravindrachary, C Shruthi, Rohan N Sagar, Shreedatta Hegde, *AIP Conf. Proc.* 1953 (2018) 030211-1– 030211-4, **Impact factor – 0.40**
25. Diffusion, swelling, cross linkage study and mechanical properties of ZnO doped PVA/NaAlg blend polymer nanocomposite, B Guruswamy, V Ravindrachary, C Shruthi, Shreedatta Hegde, Rohan N Sagar, *AIP Conf. Proc.* 1942(2018) 040022-1– 040022-4, **Impact factor – 0.40**
26. Inhibition and quenching effect on positronium formation in metal salt doped polymer blend, SD Praveena, V Ravindrachary, Ismayil, R F Bhajantri, A Harisha, B Guruswamy, Shreedatta Hegde, Rohan N Sagar, *AIP Conf. Proc.* 1942, (2018) 080004-1–080004-4, **Impact factor – 0.40**
27. Relaxation and transport properties of Li⁺ ion conducting biocompatible material for battery application, Shreedatta Hegde, V Ravindrachary, S D Praveena, B Guruswamy, Rohan N Sagar, Ganesh Sanjeev, *AIP Conf. Proc.* 1942(2018) 10043- 1–10043-4. **Impact factor – 0.40, Citations – 2.**

28. Free volume modifications in chalcone chromophore doped PMMA films by electron irradiation: Positron annihilation study, Ismayil, V Ravindrachary, S D Praveena, M G Mahesha, Radiation Physics and Chemistry,144 (2018)194-203. **Impact factor – 2.226, Citations – 8.**
29. Optical and Dielectric Properties of Li⁺ Ion Conducting Solid Polymer Electrolyte Shreedatta Hegde, V Ravindrachary, B Guruswamy, C Shruthi, and Rohan N Sagar, *Indian Journal of Advances in Chemical Science*, 6(2) (2018)83-87.
30. Optical, Electrical and Thermal Properties of SnO₂ Nanoparticles doped Poly Vinyl Alcohol-Poly Vinyl Pyrrolidone Blend Polymer Electrolyte, B Guruswamy, V. Ravindrachary, C. Shruthi, Shreedatta Hegde, Rohan N.Sagar, S. D. Praveen. *Indian Journal of Advances in Chemical Science*, 6(1) (2018)17.
31. Microstructural, Electrical and Thermal properties of Lithium ion conducting solid polymer electrolyte, Shreedatta Hegde, V. Ravindrachary, S.D.Praveena, B.Guruswamy, Rohan N Sagar, C Shruthi., *Internional Journal of Latest Trends in Engineering and Technology*. E-ISSN:2278-621X, (2017) 239-244
32. Synthesis and NLO Studies of Novel (2E)-1- (2-bromo-4,5- dimethoxyphenyl) -3- (3-Bromo -4-Fluorophenyl) Prop-2- en-1-One Single Crystal. C. Shruthi, V. Ravindrachary, D. Jagadeesh Prasad, B. Guruswamy, Shreedatta Hegde. AIP Conf. Proc. 1832, (2017) 100022-1–100022-3, **Impact factor – 0.40, Citations – 1.**
33. Effect of BaCl₂ doping on structural and electrical properties of PEO based solid polymer electrolyte films. Rohan N. Sagar, V. Ravindrachary, Guruswamy B, Shreedatta Hegde and Praveena S.D. *Res. J. Physical Sci.* Vol. 5(2)(2017)5-7. **Citations – 1.**
34. Ionic conductivity and free volume related microstructural properties of LiClO₄/PVA/NaAlg polymer composites: Positron annihilation spectroscopic studies T Sheela, RF Bhajantri, PMG Nambissan, V Ravindrachary, B Lobo, Jagadish Naik, Sunil G Rathod, *Journal of Non-Crystalline Solids* 454,(2016) 19-30. **Impact factor – 2.6, Citations – 4.**
35. Synthesis and characterization of multifunctional ZnBr₂/PVA polymer dielectrics J Naik, RF Bhajantri, SG Rathod, T Sheela, V Ravindrachary, *Journal of Advanced Dielectrics*, (2016) 1650028. **Impact factor – 0.870, Citations – 4.**
36. Influence of transport parameters on conductivity of lithium perchlorate-doped poly (vinyl alcohol)/chitosan composites, SG Rathod, RF Bhajantri, V Ravindrachary, B Poojary, PK Pujari, T Sheela, Jagadish Naik, *Journal of Elastomers & Plastics* 48 (5) (2016) 442. **Impact factor – 1.20, Citations – 9.**
37. Dopant induced Microstructural, Optical and electrical properties of TiO₂/PVA Composite, S. D. Praveena, V. Ravindrachary, R. F. Bhajantri, Ismayil, *Polymer Composites*, 37 (2016) 987–997, **Impact factor- 2.265, Citations – 30.**
38. Effect of UV irradiation on mechanical and microstructural properties of PVA/Cellose composite Sunil G Rathod, RF Bhajantri, V Ravindrachary, T Sheela , *Mapana J. Sci.*, 14(2015)(1) ISSN 0975-3303

39. High mechanical and pressure sensitive dielectric properties of graphene oxide doped PVA nanocomposites, SG Rathod, RF Bhajantri, V Ravindrachary, J Naik, DJM Kumar RSC Advances 6 (81) (2016) 77977-77986. **Impact factor - 3.119, Citations- 10.**
40. Temperature-dependent ionic conductivity and transport properties of LiClO₄-doped PVA/modified cellulose composites, Sunil G Rathod, RF Bhajantri, V Ravindrachary, PK Pujari, G K Nagaraj, and Jagadish Naik Bulletin of Materials Science. 38 (5)(2015) 1213-1221. **Impact factor – 1.392, Citations- 8.**
41. Dielectric, thermal and mechanical properties of ADP doped PVA composites J Naik, RF Bhajantri, V Ravindrachary, SG Rathod, T Sheela, I Naik, AIP Conference Proceedings 1665 (1) (2015) 040005, **Impact factor – 0.40.**
42. DBS investigation on films of cobalt chloride doped PVA-PVP blend, PB Hammannavar, BM Baraker, RF Bhajantri, V Ravindrachary, B Lobo Journal of Physics: Conference Series 618 (1),(2015) 012034. **Impact factor – 0.540, Citations – 4.**
43. DBAR investigation on films of polypyrrole incorporated polyvinylalcohol doped with ferric chloride B Lobo, BM Baraker, PB Hammannavar, RF Bhajantri, MR Ranganath, M Hurkadli, V Ravindrachary, Journal of Physics: Conference Series 618 (1)(2015) 012026. **Impact factor – 0.540, Citations – 3.**
44. PLT and DBAR Investigations on MPDMAPP Doped PVA/PVP Blend, RF Bhajantri, V Ravindrachary, B Lobo, PK Pujari, SG Rathod, Jagadish Naik, Vidyashree Hebbar, H Chandrappa, Journal of Physics: Conference Series 618 (1) (2015) 012030. **Impact factor – 0.540, Citations – 1.**
45. Positron annihilation and other experimental studies on polycarbonate/ MPDMAPP nanocomposite, Sheela T, R F Bhajantri, P M G Nambissan, Ravindrachary V, Sunil G Rathod and Boja Poojary J. APPL. POLYM. SCI.(2015), 42053. **Impact factor – 2.52, Citations – 3.**
46. Impact of electron-beam irradiation on free-volume related microstructural properties of PVA:NaBr polymer composites Ismayil, V. Ravindrachary, R.F. Bhajantri, S.D. Praveena, Ganesh Sanjeeva, Nuclear Inst. and Methods in Physics Research, B, 342 (2015) 29–38. **Impact factor – 1.270, Citations – 14.**
47. Pressure sensitive dielectric properties of TiO₂ doped PVA/CN-Li nanocomposite Sunil G. Rathod , R. F. Bhajantri, V. Ravindrachary, T. Sheela , P. K. Pujari, Jagadish Naik and Boja Poojary, J Polym Res 22(6) (2015)1-14. **Impact factor – 2.426, Citations – 38.**
48. Ionic conductivity and dielectric studies of LiClO₄ doped poly(vinylalcohol) (PVA)/chitosan(CS) composites, Sunil G Rathod, RF Bhajantri, V Ravindrachary, PK Pujari, T Sheela, *J. Adv. Dielect.*4(4)(2014) 1450033, **Impact factor – 0.870, Citations – 17.**
49. Trapping rate of positrons, DBAR line shape parameters and calculation of free volume hole size in polymeric materials using PALS data, Priyanka I, Asha J K, Preeti B Hammannavar, Arati M, Basavarajeshwari M B, V Ravindrachary and Blaise Lobo, *International Journal of Chem. Tech Research CODEN (USA):* 6,(3) (2014)1847

50. Inhibition and quenching of Positronium In Polymeric Materials, Preeti B Hammanavar, Manjunath Y Hurkadli, Chetan B Hundekar, V Ravindrachary and Blaise Lobo, *International Journal of Chem. Tech Research CODEN (USA)*: 6(3)(2014)1856
51. Effect of UV irradiation on optical, mechanical and microstructural properties of PVA/NaAlg blend, T. Sheela, R.F. Bhajantri, V. Ravindrachary, Sunil G. Rathod, P.K. Pujari, Boja Poojary and R. Somashekar, *Radiation Physics and Chemistry*, 103 (2014) 45-52, **Impact factor 2.226, Citations – 29.**
52. Thermal, mechanical and dielectric properties of poly(vinyl alcohol)/graphene oxide composites, Sunil G. Rathod, R. F. Bhajantri, V. Ravindrachary, P. K. Pujari, T. Sheela, and Jagadish Naik, *AIP Conference Proceedings* 1591 (2014) 1769, **Impact factor – 0.40, Citations – 14.**
53. Ionic conductivity studies in crystalline PVA/NaAlg polymer blend electrolyte doped with alkali salt KCl, T. Sheela, R. F. Bhajantri, V. Ravindrachary, P. K. Pujari, Sunil G. Rathod, and Jagadish Naik, *AIP Conference Proceedings* 1591(2014)202, **Impact factor – 0.40, Citations – 3.**
54. Free volume related microstructural properties of lithium perchlorate/sodium alginate polymer composite, S.D Praveen, V. Ravindrachary, R.F. Bajantri, Ismayil, *Polymer Composites* 35(2014) 1267-1274. **Impact factor- 2.265, Citations – 12.**
55. Free volume dependent Fluorescence property of PMMA composite: Positron Annihilation Studies, V Ravindrachary, S D Praveena, R F Bhajantri, Ismayil, Vincent Crasta, *AIP Conf. Proc.* 1512, (2013)126, **Impact factor – 0.40, Citations – 1.**
56. Free volume related electrical properties of Sodium Alginate/LiClO₄ solid polyelectrolyte, S.D. Praveena, V. Ravindrachary, R.F. Bhajantri, Ismayil, *AIP Conf. Proc.* 1512(2013)128, **Impact factor – 0.40.**
57. Optical and Dielectric Properties of TiO₂ doped PVA-CN/LiClO₄ Composite Electrolyte, Sunil G. Rathod, R. F. Bhajantri, V. Ravindrachary, P.K. Pujari, T. Sheela, *AIP Conf. Proc.* 1512(2013)1278, **Impact factor – 0.40.**
58. Photochromic and microstructural properties of methyl orange doped PVA, R. F. Bhajantri, Renuka Sali, V. Ravindrachary, P. K. Pujari, T. Sheela, Sunil G Rathod, *AIP Conf. Proc.* 1512(2013)1280. **Impact factor – 0.40, Citations – 4.**
59. Preparation and Characterization of NaClO₄ doped Poly(vinyl alcohol)/Sodium Alginate Composite Electrolyte, T. Sheela, R. F. Bhajantri, V. Ravindrachary, P.K. Pujari, Sunil G. Rathod, *AIP Conf. Proc.* 1512(2013)1302, **Impact factor – 0.40.**
60. Investigation of third-order nonlinear optical properties of pyrazoline-doped polyvinyl alcohol film, K Janardhana, V Ravindrachary, PC Rajesh Kumar, *Polymer Engineering & Science* 53:9(2013)1958-1967, **Impact Factor: 1.91 Citations – 7.**
61. Third order optical non-linearity of a novel chalcone derivative through Z scan technique, K Janardhana, V Ravindrachary, PC Kumar, G Umesh, KB Manjunatha, *Indian journal of pure and Applied Physics*, 51(2013) 844-850 **Impact Factor: 0.653, Citations – 7**

62. Structural and optical properties of a new chalcone single crystal, P.C. Rajesh Kumar, V. Ravindrachary, K. Janardhana, Boja Poojary, *Journal of Crystal Growth* 354(2012)182–187, **Impact Factor: 1.632, Citations – 37.**
63. Nonlinear optical studies of a novel pyrazoline, K. Janardhana, V. Ravindrachary, P C. Rajesh Kumar, G. Umesh K. B Manjunatha, *AIP Conf. Proc.* 1447, (2012)1261, **Impact factor – 0.40, Citations – 3**
64. Linear and NLO properties of an organic single crystal, P. C. Rajesh Kumara, V. Ravindrachary, K. Janardhana, Boja Poojary, K. B. Manjunath, *AIP Conf. Proc.*,1447(2012)1343, **Impact factor – 0.40.**
65. Diffusion studies of FeCl₃ doped poly(vinyl alcohol) films, T. Sheela, V. Ravindrachary, R. F. Bhajantri, Ismayil, Sunil Rathod et al. *AIP Conf. Proc.*, 1447, (2012)175, **Impact factor – 0.40, Citations – 1.**
66. Optical and structural properties of chalcone NLO single crystals, P.C. Rajesh Kumar, V. Ravindrachary, K. Janardhana, H.R. Manjunath, Prakash, Karegouda, Vincent Crasta, M.A. Sridhar, *Journal of Molecular Structure*, 1005 (2011) 1–7. **Impact Factor: 2.463, Citations– 60.**
67. Growth, characterization, crystal and molecular structure studies of 1-(2'-thiophen)-3-(2,3,5-trichlorophenyl)-2-propen-1-one, H.R. Manjunath, P.C. Rajesh Kumar, S. Naveen, V. Ravindrachary, M.A. Sridhar J. Shashidhara Prasad and Prakash Karegoudar, *Journal of Crystal Growth*, 327(2011)161–166. **Impact Factor: 1.632, Citations – 24.**
68. Free volume related fluorescent behaviour in electron beam irradiated Chalcone doped PVA, Ravindrachary, Ismayil, Suresh P. Nayak, Dhanadeep Dutta and P. K. Pujari, *Polymer Degradation and Stability*,96(2011)1676-1686, **Impact Factor: 4.032, Citations – 31.**
69. Free Volume Related Fluorescence Properties of Electron Irradiated Chalcone Doped PMMA Films, Ismayil, V. Ravindrachary, R. F. Bhajantri, A. Harisha, S. D. Praveena, *AIP Conf. Proc.*, 1349(2011)196. **Impact factor- 0.40, Citations -2.**
70. Third Order Optical Nonlinearity of a Pyrazoline Derivative, K. Janardhana, V. Ravindrachary, P.C. Rajesh Kumar, Yogisha, Boja Poojary, K. B. Manjunatha and Ismayil, *AIP Conf. Proc.*,1349(2011)1319, **Impact factor – 0.40, Citations – 1.**
71. Synthesis and Characterization of Organic NLO Compound. Rajesh Kumar P.C, V Ravindrachary, K Janardhana, H. R. Manjunath and Prakash Karegoudar, *AIP Conf. Proc.*,134(2011)91291, **Impact factor – 0.40, Citations – 1**
72. Dielectric studies on swift heavy ions and electron irradiated organic single crystals, Vincent Crasta, V. Ravindrachary, P.C.Rajesh Kumar and S.Ganesh *AIP Conf. Proc.*,1349(2011)163, **Impact factor – 0.40.**
73. Optical and microstructural studies on electron irradiated PMMA: A positron annihilation study, Ismayil, V. Ravindrachary, R. F. Bhajantri, S. D. Praveena, Boja Poojary, Dhanadeep Dutta and P.K. Pujari, *Polymer Degradation and Stability*, 95(2010)1083-

1091, **Impact Factor: 4.032, Citations – 57.**

74. Microstructure and positron behavior in FeCl₃ doped PVA/PVP blend. V Ravindrachary, R. F. Bhajantri, A. Harisha, Ismayil and C. Ranganathaiah, *Physica Status Solidi C*, 6 (11) (2009)2438–2441, **Citations - 8.**
75. Positron annihilation studies on chalcone chromophore doped PVA, R. F. Bhajantri, V. Ravindrachary, A. Harisha, Ismayil and C. Ranganathaiah *Physica Status Solidi C*, 6 (11) (2009)2429–2431. **Citations – 6.**
76. Studies on fluorescent PVA+PVP+MPDMAPP composite films, Bhajantri R.F, Ravindrachary V, Boja Poojary, Ismayil, Harisha A, Vincent Crasta, *Polymer Engineering and Science*, 49(2009)903, **Impact Factor: 1.917, Citations – 36.**
77. Electron irradiation induced microstructural modifications in BaCl₂ Doped PVA: A Positron Annihilation Study. A Harisha, V Ravindrachary, R F Bhajantri, Ismayil, Ganesh Sanjeev, Boja Poojary, Dhanadeep Dutta, P K Pujari, *Polymer Degradation and Stability*, 93(2008)1554–1563, **Impact Factor: 4.032, Citations – 26.**
78. Effect of Barium Chloride doping on PVA Microstructure: Positron Annihilation Study, Rajashekhar F Bhajantri, V. Ravindrachary, A Harisha, C. Ranganathaiah and G. N. Kumaraswamy, *Applied Physics A*, 87(4)(2007)797-805. **Impact Factor: 1.810, Citations – 119.**
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Papers / poster presentations in Conferences / Seminars / Symposia

International/National

- 1) Effect of CdO Nanoparticles on microstructural, thermal, Surface and AC conductivity of Nylon-6, Pratheeka Tegginamata, V Ravindrachary, B K Mahantesha, R Sahanakumari, R Ramani, T M Kotresh, S Ananth, 11th International conference on Advancements in Polymeric Material (APM-2020) held at central institute of Plastics Engineering & Technology (CIPET) : (SARP)- APDDRL Bengaluru, during Feb 13-15th 2020
- 2) Effect of Curcumin doping on optical, Structural and luminescent Properties of PVA polymer films Padmakumari R, Ravindrachary V, Mahantesha B K, Sahanakumari R ACCMS-ICMG held at SRM University Andhra Pradesh, during Feb 5-7th 2020
- 3) Microstructural, Optical and Electrical Properties of MoS₂ doped Sodium Alginate Sahanakumari R, Ravindrachary V, Mahantesha B K, Padmakumari R, Pratheeka Tegginamata ACCMS-ICMG held at SRM University Andhra Pradesh, during Feb 5-7th 2020
- 4) Effect of Electron Irradiation on Surface, Transport and Relaxation Properties of Li Ion Conducting Polymer Composite B K Mahantesha, V Ravindrachary, Padmakumari, R Sahanakumari, Pratheeka Tegginamata, Ganesh Sanjeev, R Choudhary, ACCMS-ICMG held at SRM University Andhra Pradesh, during Feb 5-7th 2020
- 5) Theoretical Investigation of NLO Properties of a Novel Heterocyclic Compound using Density Functional Theory C Shruthi, V Ravindrachary, B Guruswamy, D Jagadeesh Prasad, Janet Goveas held in JSS University, Mysore, Karnataka 16th – 18th January 2020

- 6) Computational Investigation of NLO Property of Novel Heterocyclic Compound Using DFT Theory C Shruthi, V Ravindrachary, B Guruswamy, Shreedatta Hegde, Janet Goveas, ICCM-2019, Department of Chemistry, Mangalore University Managalaagangothri, Oct 17th to 19th 2019
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- 11) Optical, Electrical and Relaxation Studies: Functionalized Graphene based PVA-CS Blend Composites for Energy Storage Device Applications Rohan N Sagar, Ravindrachary V, Shreedatta Hegde, Guruswamy B, 11th International Exergy, Energy and Environment Symposium IEEEES'11 – 2019 held at SRM Institute of Science and Technology, INDIA during July 14th – 18th 2019
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- 158) Radiation induced Microstructural changes in the Polymer Polyacrilonitrile: A Positron Annihilation Study, V Ravindrachary, R Ramani, C Ranganathaiah and S Gopal Solid State Physics Symposium, Bombay, Dec.27-31, 1993
- 159) Dopant induced Microstructural study of a polymer by Positron annihilation technique, V Ravindrachary, H R Sreepad, C Ranganathaiah and S Gopal Solid State Physics Symposium, Thirupathi, Dec.28-Jan1, 1993
- 160) Annealing behavior of TGDDM epoxy resin, V Ravindrachary, H R Sreepad, R Ramani, C Ranganathaiah and S Gopal Solid State Physics Symposium, Thirupathi, Dec.28-Jan1, 1993

- 161) Phase transition in a Nasicon analogue, H R Sreepad, V Ravindrachary, A Chandrashekara, V Sreeramalu, C Ranganathaiah and S Gopal, Solid State Physics Symposium, Thirupathi, Dec.28-Jan1, 1993
- 162) Positron lifetime study of Cobalt based amorphous alloy, Chandrashekara, H R Sreepad, V Ravindrachary, C Ranganathaiah & S Gopal Solid State Physics Symposium, Varanasi, Dec.27-30, 1991
- 163) Positron trapping rates in a gamma irradiated polymer matrix, H R Sreepad, V Ravindrachary, A Chandrashekara, C Ranganathaiah & S Gopal Solid State Physics Symposium, Varanasi, Dec.27-30, 1991
- 164) Effect of gamma radiation on the positron trapping centers in a Nasicon analogue H R Sreepad, A Chandrashekara, V Ravindrachary, C Ranganathaiah & S Gopal Solid State Physics Symposium, Varanasi, Dec.27-30, 1991
- 165) Positron probe for the Microstructural changes in the polymer Poly Acrylonitrile V Ravindrachary, H R Sreepad, A Chandrashekara, C Ranganathaiah, S Gopal Ninth Nat. Symp on Radiation Physics, Hyderabad, Nov.27-30, 1991
- 166) Positron annihilation studies on free volume properties of a Polymer matrix Poly (2,6-Dimethyl-1,4-Phenylene Oxide), V Chandrashekara, H R Sreepad, V Sreeramalu, V Ravindrachary, C Ranganathaiah and S Gopal, Int. Nat. Conf. on Dis-Ordered Materials (Structure & Properties), Indore, India, Feb 3-6, 1991
- 167) Positron lifetime study on binary amorphous alloy Pb₆₇Sn₃₃, V Ravindrachary, V Sreeramalu, A Chandrashekara, H R Sreepad, C Ranganathaiah and S Gopal, International Conference on Dis-Ordered Materials (Structure & Properties), Indore, India, Feb 3-6, 1991
- 168) Radiation induced changes in the free volume of a polymer matrix, H R Sreepad, V Sreeramalu, V Ravindrachary, A Chandrashekara, C Ranganathaiah and S Gopal, International Conference on Dis-Ordered Materials (Structure & Properties), Indore, India, Feb 3-6, 1991
- 169) Annealing study in the Pb-Sn alloy using Positron lifetime technique H R Sreepad, V Sreeramalu, V Ravindrachary, A Chandrashekara, C Ranganathaiah and S Gopal, Solid State Physics Symposium, BARC, Bombay, Jan 1-4, 1991
- 170) Conductivity study in a Nasicon analogue, V Ravindrachary, H R Sreepad, V Sreeramalu, A Chandrashekara, C Ranganathaiah and S Gopal, Solid State Physics Symposium, BARC, Bombay, Jan 1-4, 1991
- 171) Study of variation of free volume size in the polymer PPO using Positron Lifetime Technique, A Chandrashekara, V Sreeramalu, H R Sreepad, V Ravindrachary, C Ranganathaiah and S. Gopal, Solid State Physics Symposium, BARC, Bombay, Jan 1-4, 1991
- 172) Study of defects in a sodium superionic material using Positron angular correlation technique, H R Sreepad, V Sreeramalu, V Ravindrachary, A Chandrashekara, C Ranganathaiah and S Gopal, Solid State Physics Symposium, BARC, Bombay, Jan 1-4, 1991

- 173) Positron annihilation studies on iodine doped polymer Poly(2,6-Dimethyl-1,4- Phenylene Oxide), V Sreeramalu, H R Sreepad, A Chandrashekara, V Ravindrachary, C Ranganathaiah and S Gopal, Solid State Physics Symposium, BARC, Bombay, Jan 1-4, 1991
- 174) Isochronal annealing study in the solder alloy (Pb67Sn33) using positron lifetime technique, A Chandrashekara, V Ravindrachary, V Sreeramalu, H R Sreepad and S Gopal Nat. Symp.on Recent trends in Nuclear Physics & Solid state Physics, Anna University, Madras, Feb 18-20, 1990.
- 175) Positron probe for defect study in Nasicon analogue, V Sreeramalu, V Ravindrachary, H R Sreepad, A Chandrashekara and S Gopal Eighth Nat.Symp. on Rad Phy., BARC Bombay, Jan.17-19, 1990
- 176) Positron Angular correlation studies on defect concentration in Na₂(La,Al)Zr(PO₄)₃, V Ravindrachary, V Sreeramalu, H R Sreepad, A Chandrashekara and S Gopal Solid State Physics Symposium, IIT Madras, Dec 19-22, 1989
- 177) Positron trapping at structural vacancies in a super ionic materials, V Sreeramalu, V Ravindrachary, H R Sreepad, A Chandrashekara and S Gopal Solid State Physics Symposium, IIT Madras, Dec 19-22, 1989
- 178) Positron annihilation studies on the Nasicon analogue Na₂ (La,Al)Zr(PO₄)₃ S Gopal, V Sreeramalu, V Ravindrachary, H R Sreepad, and A Chandrashekara Fourth Nat. Symp on crystal growth, Mysore, Aug.14-18, 1989

Miscellaneous

Standardized X-ray Powder pattern for 1-(4-methylphenyl)-3-(4-methoxyphenyl) 2-propen-1-one, **V Ravindrachary**, Vincent Crasta, R F Bhajantri, Richard Gonsalves, International Center for Diffraction Data file no. (ICDD) No. 56-1679, 2006

Invited / plenary talks delivered

1. Special lecture on Positron annihilation lifetime spectroscopy for Soft materials for masters and research students held at UNIVERSITI TEKNOLOGY MARA, Malaysia, 11-16th August 2017.
2. Special lecture on Materials characterization using Positron annihilation lifetime spectroscopy for M. Sc., and Ph.D Students held at University of Mysore, Mysore, 15th May 2016.
3. Special lecture on Positron annihilation lifetime spectroscopy for semiconducting materials for M. Sc. Students held at Karnataka University, College, Dharwad, 10th Jun 2014.
4. Special lecture series on Quantum Mechanics for M. Sc. Students held at VSK University, Bellary 18th Feb 2015.
5. Special lecture on Positron annihilation lifetime spectroscopy for Soft materials for M. Sc. Students held at Davanagere University, Davanagere, 11th Jun 2014.

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Conferences / Seminars / Workshops / Symposia organized

- Jun 2015 Convener for national Orientation **Workshop on Radiation - Its Applications in Physical, Chemical and Life Sciences.**
- Jan 2012 4th Karnataka vignana Sammelana held at Mangalore University.
- Nov 2006 National Workshop on Application of Radiation and Radioisotope Techniques, USIC, Mangalore University.
- Nov 2006 BARC-Golden Jubilee DAE-BRNS National workshop on **Nuclear Data for Advanced Nuclear Systems, Nuclear Databases and Applications**, Department of Physics, Mangalore University.
- Feb 2006 One day discussion meeting on the eve of decennial celebration of microtron, Mangalore University.
- March 2004 One day National Workshop on “**Neutron Production using Accelerator and Applications**”, Department of Physics, Mangalore University.
- Oct 2003 One-day workshop on “**Irradiation of Food for Quality Up gradation**”
Department of Physics, Mangalore University Mangalagangothri
- Jan 2002 South Zone Youth Festival, Mangalore University.
- Dec 1999 13th National Symposium on Radiation Physics, Mangalore University.
- Oct 1999 National Seminar on Radiation, Environment and Man, Mysore University.
- Feb 1999 National Seminar on energy Options – Nuclear energy, Mangalore University.

Awards / Fellowship / Recognition

1985-87 National Merit scholarship

1988-1990, UGC, Junior Research Fellow, Govt. of India,

1990-93, UGC, Senior Research Fellow, Govt. of India

Membership of Professional Bodies

Life Member, International Society of Dis-ordered Materials

Life Member, Indian Society for Radiation Physics Societies

Life Member, Indian Physics Association, Mumbai chapter

Life Member, Indian Science Congress

Chairman, BoE Mangalore University

Member, Board of Studies, Davangere University

Chairman and Member, Board of Examiners, Mangalore, Bangalore, Mysore, Gulbarga, Kuvempu, Davangere, VSKU Bellary Kannur Universities

Chairman, BoE and BoS, Kannur University, Kerala

Member, Department of studies in Physics, Mangalore University

Member Mangalore University Teachers Association

Any other information

Administrative Positions

Aug 2018 - March 2020 **Registrar (Evaluation)**, *Mangalore University*.

July 2018 – 14th Aug 2018 **Chairman**, Department of Physics, *Mangalore University*.

May 2017 – Aug 2018 **Director**, Planning, Monitoring and Evaluation Board, *Mangalore University*.

May 2017 – Aug 2018 RUSA **Institutional Co-ordinator**, *Mangalore University*.

July 2016 – May 2017 **Director**, P.G. Center, Chikkalavara, *Mangalore University*.