



SRI SHRIDEVI CHARITABLE TRUST (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY



NAME: Dr. SADASHIVAIAH P J

Designation: Associate Professor & HOD

Department: PHYSICS

| | | | |
|-------------------------|------------|----------|----------|
| Date of Joining | 21-07-1982 | | |
| Professional Experience | Teaching | Industry | Research |
| | 13 | | 5 |

| Contact Details | |
|-----------------|---|
| Email ID | sadashivaiahpj@gmail.com , hod.physics@shrideviengineering.org |
| Telephone | 9980951150 |
| LinkedIn | https://in.linkedin.com/in/dr-sadashivaiah-p-j-29b02037?trk=people-guest_people_search-card |
| Google Scholar | https://scholar.google.co.in/citations?user=FTDr7vsAAAAJ&hl=en |
| Research ID | |
| ORCID | |
| Vidwan -ID | |

| Academic Background | |
|---------------------|--|
| • Ph.D | |
| • M.Sc | |
| • B.Sc | |

| Areas of Interest | |
|-------------------|------------------|
| • Thin Films | • Nanotechnology |
| • | • |

Significant Publications

• **No. of Papers Published in Journals (Numbers and Description): 18 Numbers**

1. Structural, magnetic and electrical properties of Fe/Cu/Fe films, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, Santoshkumar, R. Rawat, P.Saravanan and A.K. Bhatnagar,, Vacuum, **85**, 466 (2010).
2. Magnetic and low temperature conductivity studies in oxidized nano Ni films, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, P.Saravanan, Santoshkumar, M.Prashant kumar, G.B.Devidas, B.Vijaya kumar, N.Nagaraja1 and N.Sharanabasava, Journal of Nano and Electronic Physics, **3**(4), 43 (2011).
3. Structural and low temperature electrical properties of a Nickel/Iron multilayer, **P.J.Sadashivaiah**, T. Sujatha, T.Sankarappa, Santoshkumar and A.K.Bhatnagar Journal of Material Science Research India, **8**(2), 315 (2011).
4. XRD, SEM and low temperature electrical transport in a metallic multilayers, **P.J.Sadashivaiah**, T. Sujatha, T.Sankarappa, Material Science, An Indian Journal, **8**(2), 102 (2012).
5. Low temperature conductivity of electron beam gun deposited Ni films, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, P.Saravanan, Santoshkumar, M.Prashant kumar, G.B.Devidas, B.Vijaya kumar, N.Nagaraja and N.Sharanabasava, Thin films and Nanomaterials, Macmillan Publishers India Ltd, 200-205 (2012).
6. Magnetic and low temperature electrical properties of Ni/Fe multilayers, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, R.Ramanna, Santoshkumar P.Saravanan and A.K.Bhatnagar, International Science Research, **1**(4) 272 (2012).
7. Electronics transport at low temperature in Ni/Al/Ni films, R.Ramanna, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, J.S.Ashwajeet and A.W.Manjunath and Santosh Kori, Int. Res. J. Pure and Appl. Chem., 4,6, 785 (2014).
8. Electronic Transport at low temperature in some sandwiched films, R.Ramanna, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, J.S.Ashwajeet and A.W.Manjunath and Santosh Kori, Asian J. Appl. Sci., 7, 8, 685 (2014).
9. Low temperature magnetic and electrical properties of (Co/Al) multilayers, R.Ramanna, T.Sankarappa, J.S.Ashwajeet, T. Sujatha, and **P.J.Sadashivaiah** International Journal of Current Research, Vol. 6, Issue, 12, 10541, (2014).
10. Magnetic and electrical properties of electron beam gun deposited [Mn/Al] multilayered films, R. Ramanna, T.Sankarappa, T.Sujatha, J.S.Ashwajeet and **P.J.Sadashivaiah** Journal of Advances in Physics, Vol. 8, No. 3, 2231, (2015).
11. Low temperature studies of resistivity and magnetoresistivity in Al/Co/Al/Cr/Al films, Santoshkumar, T.Sankarappa and **P.J.Sadashivaiah**, Material Science Research India, **6**(2), 513 (2009).
12. Electrical resistivity studies in some multilayers of magnetic and nonmagnetic Metals at low temperatures, Santosh Kumar, T.Sankarappa, **P.J.Sadashivaiah**, S.K.Gupta and A.K.Bhatnagar, National Journal of Technology, **5**(3), 14 (2009).
13. Dependence of low temperature resistivity of iron films on thickness, substrate temperature and rate of deposition, Santoshkumar, T.Sankarappa and **P.J.Sadashivaiah**, Material Science, An Indian Journal, **5**(4) (2009).
14. Polaron transport studies in La₂O-V₂O₅-P₂O₅ glasses, G.B.Devidas, T.Sankarappa, T.Sujatha, M.Prashant Kumar, **P.J.Sadashivaiah** and P.S.Naik, Solid State Sciences, **13**(7), 1385 (2011).
15. Dielectric properties and conductivity in CuO and MoO₃ doped borophosphate glasses, B.Vijaya Kumar, T.Sankarappa, Santoshkumar, M.Prashant Kumar, **P.J.Sadashivaiah** and R.Ramakrishna Reddy, Physica B: Condensed Matter, **404**(20), 3487 (2009).
16. Conductivity in alkali doped CoO-B₂O₃ glasses, N.Nagaraja, T.Sankarappa, Santoshkumar, **P.J.Sadashivaiah** and Yenkeyya, IOP Conf. Series: Material Science and Engineering, **2**, 012036 (2009).
17. AC conductivity in Li₂O and Li₂O-K₂O doped vanadotellurite glasses, M.Prashant Kumar, T.Sankarappa, G.B.Devidas and **P.J.Sadashivaiah**, IOP Conf. Series: Material Science and Engineering, **2**, 012050 (2009).
18. Dielectric relaxation studies in single and mixed alkali doped cobalt-borate glasses, N.Nagaraja,

T.Sankarappa, M.Prashant Kumar Santoshkumar, **P.J.Sadashivaiah**, Optoelectronics and Advanced materials-rapid communications, **2**(1), 22 (2008).

• **No. of Papers Presented in Conferences (Numbers and Description): 26 Numbers**

1. Structural and Magnetic Properties of Manganese/Aluminium Multilayered films, R.Ramanna, T.Sankarappa, J.S. Ashwajeet, T.Sujatha, **P.J.Sadashivaiah**, and Santoshkumar Kori, presented at 27th Kerala Science Congress, 27-29, January 2015, Allapuzha, Kerala.
2. Structural and Magnetic Properties of Ni/Al/Ni films, R.Ramanna, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, J.S. Ashwajeet, and D. Basanna, presented at 102nd Indian Science Congress, 3-7 January 2015, Mumbai University, Maharashtra.
3. XRD, AFM and Magnetic studies of some Multilayered Films, R.Ramanna, T.Sankarappa, T. Sujatha, J.S. Ashwajeet, and **P.J. Sadashivaiah**, presented at KSTA Regional Conference on Science & Society 16-17 January 2015, organized by Karnataka Science and Technology Academy (KSTA) Government of Karnataka, Bengaluru and Veerashaiva College, Ballari.
4. Studies of Structural and Magnetic Properties in some Ni/Al/Ni films, R.Ramanna, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, Ashwajeet J.S and P. Saravanan, presented at Second National Conference on Physics and Chemistry of Solids, 29-30, March 2014, SR & BGNR Govt. Arts & Science College, Khammam, Andhra Pradesh.
5. Low Temperature Electrical Resistivity of Some Sandwich Films” R.Ramanna, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, J.S.Ashwajeet A.W.Manjunath and Santosh Kori, presented at 101st Indian Science Congress, 3-7 February 2014, Jammu University, Jammu Kashmir.
6. Low Temperature Electrical Transport Properties of Oxidized Ni Films, **P.J.Sadashivaiah**, T. Sankarappa, presented at the International Conference on Emerging Innovative Technologies for a Sustainable World held in SIET, Tumkur during 7,8 Oct 2013.
7. Electronic Transport at low temperature in some sandwiched films, R.Ramanna, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, A.W.Manjunath, J.S.Ashwajeet and Santosh Kori, presented at International Conference on Thin Films and Applications (ICTFA) held in SASTRA University, Thanjavur during 11-13, Sep 2013.
8. Structural and Resistivity Studies of Multilayered Films, **P. J. Sadashivaiah**, A. Manjunath, T. Sankarappa, T. Sujatha, Santoshkumar, R. Ramanna, and J. S. Ashwajeet, presented at the 100th Indian Science Congress held in Kolkata during 3-7, Jan 2013.
9. XRD and Low Temperature Resistivity Studies in Some Sandwich Films, R.Ramanna, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, A.W.Manjunath, J.S.Ashwajeet and Santosh Kori, presented at the 100th Indian Science Congress held in Kolkata during 3-7, Jan 2013.
10. Magnetic and low temperature electrical properties of Ni/Fe multilayers, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, R.Ramanna, Santoshkumar, A.Manjunath, A.J.Ashwajeet, P.Saravanan and A.K.Bhatnagar, presented International Conference on Recent Advances in Materials Science (RAMS 2012) to be held at Bangalore during 6-8 Nov. 2012.
11. GIXRD and VSM studies in magnetic sandwich films, Ramanna, T.Sankarappa, T.Sujatha, **P.J.Sadashivaiah**, S.Abdul Khadar, A.W.Manjunath and P.Saravanan, presented at the National conference on Magnetic Materials and Applications (MagMa-2012) held in IIT Madras, Chennai during March 12, 13, 2012.
12. XRD and VSM studies in Ni/Fe multilayers, **P.J.Sadashivaiah**, T.Sujatha, T.Sankarappa, M.Prashant Kumar, B.Vijayakumar, N.Nagaraja, P.Saravanan, A.K.Bhatnagar, Santoshkumar and G.B.Devidas, presented at the 99th Indian Science Congress held in Bhubaneswar during January 3-7, 2012.
13. Low temperature conductivity of electron beam gun deposited Ni films, **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, P.Saravanan, Santoshkumar, M.Prashant kumar, G.B.Devidas, B.Vijaya kumar, N.Nagaraja and

N.Sharanabasava, presented at the International conference on advanced materials (ICAM-2011) held in PSG college of technology, Coimbatore during December 12-16, 2011.

14. Low temperature resistivity studies on some single and multilayer of iron and chromium, Santoshkumar, T.Sankarappa, **P.J.Sadashivaiah**, V.Prasad and A.K.Bhatnagar, presented at 2nd International conference on advanced nanomaterials and nanotechnology (ICANN-2011) held in Indian Institute of Technology, Guwahati during December 8-10, 2011.
15. AFM and resistivity studies in Ni/Fe multilayers **P.J.Sadashivaiah**, T.Sankarappa, T.Sujatha, Santoshkumar, R. Rawat, and A.K. Bhatnagar, presented at the 98th Indian Science Congress held in SRM University, Chennai during 3-7 Jan 2011.
16. Electrical resistivity studies in some multilayers of magnetic and nonmagnetic Metals at low temperatures, Santosh Kumar, T.Sankarappa, **P.J.Sadashivaiah**, S.K.Gupta and A.K.Bhatnagar, presented at the National conference on emerging areas in thin film science and technology held in PSG College of technology, Coimbatore during February 13, 14, 2009.
17. Low temperature conductivity studies in thin films of Fe and Cr films, Santoshkumar, T.Sankarappa, **P.J.Sadashivaiah** and A.K.Bhatnagar, presented at the 96th Indian Science Congress held in North-Eastern University, Shillong during January 3-7, 2009.
18. Electrical conductivity in single and multilayers of Fe and Cr films, T.Sankarappa, Santoshkumar, **P.J.Sadashivaiah**, G.Nagamalles and A.K.Bhatnagar, presented at International conference on magnetic materials and their applications in 21st century held in National Physical Laboratory, New Delhi during October 21-23, 2008.
19. Dielectric and conductivity studies in vanadophosphate glasses, G.B.Devidas, T.Sankarappa, T.Sujatha, **P.J.Sadashivaiah**, N.Nagaraja and B.Vijaya Kumar, presented at the 99th Indian Science Congress held in Bhubaneswar during January 3-7, 2012.
20. High temperature conductivity in CuO doped borophosphate glasses, B.Vijaya Kumar, S.S.Veena, T.Sankarappa, T.Sujatha and **P.J.Sadashivaiah**, presented at the 99th Indian Science Congress held in Bhubaneswar during January 3-7, 2012.
21. Dielectric and alternating conductivity in Fe₂O₃ and B₂O₃ doped phosphate glasses, B.Vijaya Kumar, S.S.Veena, T.Sankarappa, T.Sujatha and **P.J.Sadashivaiah**, presented at the 98th Indian Science Congress held in SRM University, Chennai during 3-7 Jan 2011.
22. Polaron transport studies in CuO doped borophosphate glasses, B.Vijaya Kumar, S.S.Veena, T.Sankarappa, T.Sujatha and **P.J.Sadashivaiah**, presented at the International workshop and symposium on the synthesis and characterization of glass/glass-ceramics (IWSSCGGC-2010) held in Centre for Materials for Electronics (C-MET), Pune during July 7-10, 2010.
23. Temperature variation of conductivity in CuO doped borate glasses, N.Nagaraja, T.Sankarappa, T.Sujatha and **P.J.Sadashivaiah**, presented at the International workshop and symposium on the synthesis and characterization of glass/glass-ceramics (IWSSCGGC-2010) held in Centre for Materials for Electronics (C-MET), Pune during July 7-10, 2010.
24. Conductivity in alkali doped CoO-B₂O₃ glasses, N.Nagaraja, T.Sankarappa, Santoshkumar, **P.J.Sadashivaiah** and Yenkeyya, presented at the International seminar on science and technology of glass materials (ISSTGM-2009) held in Acharya Nagarjuna University, Guntur during March 16-19, 2009.
25. AC conductivity in Li₂O and Li₂O-K₂O doped vanadotellurite glasses, M.Prashant Kumar, T.Sankarappa, G.B.Devidas and **P.J.Sadashivaiah**, presented at the International seminar on science and technology of glass materials (ISSTGM-2009) held in Acharya Nagarjuna University, Guntur during March 16-19, 2009.
26. Conductivity studies in MoO₃-Li₂O doped borophosphate glasses, T.Sankarappa, Jyoti Kattimani, Santosh Kumar, M.Prashant Kumar, **P.J.Sadashivaiah** and Yenkeyya, presented at National symposium on science and technology of glass and glass-ceramics (NSGC-08) held in BARC, Mumbai during October 13-15, 2008.

• **Book Chapters (Numbers and Description) : Nil**

• **List of FDP's/Workshops (Numbers and Description): 23 Numbers**

1. Faculty Development Program for Student Induction Program to be held in SVCE, Bengaluru, 21st to 23rd June 2018.
2. Workshop on New Model Curriculum for First Year BE (CBCS) 2018-19, held in BIT, Bengaluru, 18th May 2018.
3. National Seminar on Technology Roadmap of ICT to be held in Visvesvaraya Industrial and Technological Museum, Bengaluru, 17th September 2016.
4. International Conference on Emerging Innovative Technologies for a Sustainable World held in SIET, Tumkur during 7,8 Oct 2013.
5. Workshop on Non-Linear and Applied Optics to be held in Department of Physics, M S Ramaiah Institute of Technology, Bangalore during 2,3 August 2013.
6. Workshop on Number Theory, Linear Algebra and Engineering Applications to be held in Department of Mathematics, Shridevi Institute of Engineering and Technology, Tumkur during 9th March 2013.
7. Special lecture series in Physics held in Department of Physics, Gulbarga University, Gulbarga during March 27-29, 2012.
8. National seminar on advanced functional materials held in Department of Physics, Gulbarga University, Gulbarga during March 19, 20, 2012.
9. National conference on Magnetic Materials and Applications (MagMa-2012) held in IIT Madras, Chennai during March 12, 13, 2012.
10. 99th Indian Science Congress Association to be held in Bhubaneswar during January 3-7, 2012.
11. International conference on advanced materials (ICAM-2011) held in PSG college of technology, Coimbatore during December 12-16, 2011.
12. 98th Indian Science Congress held in SRM University, Chennai during January 3-7, 2011.
13. National seminar on Nano Chemistry held in Department of Chemistry, Gulbarga University, Gulbarga during March 29, 2010.
14. National seminar on X-Ray diffraction techniques held in Department of Physics, Gulbarga University, Gulbarga during March 2, 3, 2010.
15. 97th Indian Science Congress held in Kerala University, Thiruvananthapuram during January 3-7, 2010.
16. Manava Kalyanakke Vignana mathu tantragnana organized by Karnataka Science and Technology Academy, Government of Karnataka, held in Gulbarga University, Gulbarga during September, 23, 24 2009.
17. National conference on emerging areas in thin film Science and Technology held in PSG college of technology, Coimbatore during February 13, 14, 2009.
18. Pre-conference workshop on advanced materials processing, characterization and applications held in PSG college of technology, Coimbatore during February 12, 2009.
19. National symposium on Science and Technology of glass and glass-ceramics (NSGC-08) held in BARC, Mumbai during October 13-15, 2008.
20. Seminar on Nano Science and technology-Curriculum development held in Department of Materials Science, Gulbarga University, Gulbarga during April 11, 2008.
21. Special lecture series for PG students of Physical Sciences held in Department of Physics, Gulbarga University, Gulbarga during November 5-7, 2007.

22. National seminar on educational scenario of the 21st century held in A.V.Kamalamma college for women, Davangere during February 3, 2007.

23. One day state level seminar on basic sciences- problems and solutions and the use of English language in the study of science subjects held in D.R.M. Science College, Davanagere during January 12, 2007.

- **Books (Numbers and Description)**
- **Patents Published (Numbers and Description)**
- **KSCST Student Projects Funded /Funded project and consultancy (Numbers and Information)**
- **Awards/Recognition**
- **Project Guided details**

Achievements

- **Editorial Board Member**
- **Nominated as**
- **Reviewer for**
- **Invited Speaker for**
- **Resource person for**
- **In-house resource person for**
- **Professional Membership**