



## Dr. Suresh Sripada

M.Sc, M.Phil, Ph.D

**Assistant Professor & CRC Chairman**

Physics

### Areas of Interest:

Materials science, Nano Structured Materials, Glasses and Ceramics

**Dr. Suresh Sripada** has been working as a Assistant Professor in Department of Physics since 2010. He obtained his M.Sc. degree in physics(2001) with electronics specialization from Osmania University, Hyderabad. Later he joined in M.Phil in Hyderabad Central University and completed his degree in the year 2004. He has been awarded Ph.D. from the Osmania University in 2008 under the supervision of Prof. V.Chandra Mouli. The thesis entitled with “*Studies on Spectroscopic and Transport Properties of Boro-Tellurite and Alkali Boro Tellurite Glasses*”. During his Ph.D he has finished **JRF** and **SRF** from **DST** funded project. He has been selected as **Young Scientist** fellow ship award from **APCOST** from **DST** for the year 2007. He received a **Research Associate** award for the year 2010 from **CSIR**, New Delhi. He has total 12 years of Teaching & Research experience. He discharged the duties of various administrative positions at JNTUH CEJ viz., Head, Dept. of Physics for the year 2016-2019 and Dy. Warden for boys hostel for the year 2012-2015. He is currently holding Officer-In-charge for Academic section ( OAS) since 2019

As a researcher **Dr Suresh Sripada** published 37 research papers in various National and International Journals in the area of research which includes Materials Science, Glasses, Glass - Ceramics & Nano materials. He has presented papers at 6 National and 24 international conferences for interacting scientific community. Under his guidance 6 research scholars have been working for their Ph.D. programme in the field of experimental research as well as in theoretical work. One student was awarded PhD under his supervision in the year 2020. He has attended Orientation course (2013) and refresher courses (2013, 2016 & 2021) for Career advancement scheme. And also participated in various short term courses (2019) and Faculty Development programmes. (2020 & 2021)

### - ▶ Educational & Professional

#### - ▶ Academic Qualifications

- ▶ Ph.D in Physics, Osmania University, Hyderabad - 500007, T.S., India (2003-2008)

- ▶

M.Phil in Physics, Hyderabad Central University (HCU), Gachibowli, Hyderabad, Telangana - 500046 (2001-2003)

#### ▶ Professional Experience

### - ▶ Teaching Experience

- ▶ Academic consultant, Nizam college, Basheer Bagh, Osmania University, Hyderabad (2007-07-16 - 2010-03-31)

### - ▶ At JNTUH

- ▶ Assistant Professor, Jawaharlal Nehru Technological University Hyderabad College of Engineering Jagtial (2010 - Till Date)

### - ▶ Research

#### - ▶ Research Projects

- ▶ *The Study of Nano filler effect on Polymer electrolytes and fabrication of gas sensor*, funded by TEQIP-III, JNTUH Kukatpally - 2,50,000 (2019 - 2020)

### - ▶ Books

- ▶ Dr.Suresh Sripada, Dr.Y.Vasudeva Reddy, Sri. B.Srinivas Goud, Sri.M.Sundaramurthi, *Modern Physics*, Telugu Academy, 2022

### - ▶ Publications

- Suresh Sripada, M. Chandrashekhara Reddy, T. Sreekanth, Rajesh Siripuram, K. Venkateshwarlu, *Influence of Nano Filler (ZrO<sub>2</sub>) on Optical and Thermal Studies of Potassium Doped Polyethylene Oxide Solid Polymer Electrolytes*, Materials Science Forum, ISBN No.1662-9752, Vol No.1048 , pp.101-109, Scientific.Net, 2022
- G.Sreenivas, Mahesh P, D.V.Mahalakshmi , A.L.Kanchana, Prabir K.Patra , Naveen Chandra , P.Raja , M.V.R.Sesha Sai , SureshSripada , P.V.N.Rao , V.K.Dadhwaj, *Seasonal and annual variations of CO<sub>2</sub> and CH<sub>4</sub> at Shadnagar, a semi-urban site*, Science of the Total Environment, ISBN No.0048-9697 , Vol No.819, pp.153114, Elsevier, May, 2022
- Lavanya Kunduru , N. Yedukondalu, S. C. Rakesh Roshan, Suresh Sripada, M. Sainath, Lars Ehm , John B. Parise, *Pressure-Induced Martensitic Phase Transition and Low Lattice Thermal Conductivity of SrClF*, The Journal of Physical Chemistry , ISBN No.1932-7447 , Vol No.125, Issue No.31, pp.17261-17270, ACS , August, 2021
- P. Satya Gopal Rao, K. Venkateshwarlu, Rajesh Siripuram, Suresh Sripada, *Structural Studies of TeO<sub>2</sub>-SeO<sub>2</sub>-Na<sub>2</sub>O Glass System*, Glass Physics and Chemistry, ISBN No.1608-313X , Vol No.47, pp.308-320, Springer, August , 2021
- M.Sumalatha , S.Shravan Kumar Reddy , M.Sreenath Reddy , Suresh Sripada , M.Manivel Raja , Ch.Gopal Reddy , P.Yadagiri Reddy , V.Raghavendra Reddy , *Raman and in-field 57Fe Mössbauer study of cation distribution in indium (In) substituted phase pure cobalt ferrite (CoFe<sub>2</sub>-xIn<sub>x</sub>O<sub>4</sub>)*, Journal of Magnetism and Magnetic Materials, ISBN No.0304-8853, Vol No.523, pp.167561, Elsevier, April, 2021
- Lavanya Kunduru, N.Yedukondalu, S.C.Rakesh Roshan, SureshSripada, M.Sainath, *Structural phase transition and electronic structure of binary CaO and SrO under high pressure*, Materials Today:Proceedings, ISBN No.2214-7853, Elsevier, December, 2021
- Rajesh Siripuram, P. Satya Gopal Rao, Suresh Sripada, *Physical, Optical, Structural and Thermal Studies of xWO<sub>3</sub> + (30 - x)As<sub>2</sub>O<sub>3</sub> + 70TeO<sub>2</sub> (where x = 10, 20, 30 mol%) glasses by UV-vis, Raman, Optik*, ISBN No.0030-4026, Vol No.224, pp.165450, Elsevier, December, 2020
- Padigela Srinivas Reddy , Prashanth Kumar Vaidya , Suresh Sripada, *Crystal structure of Samarium based orthoferrites for Solid Oxide Fuel Cells*, Solid State Technology, ISBN No.0038-111X, Vol No.63, Issue No.6, pp.17797-17799, Solid State Technology, 2020
- Meenakshamma Ambapuram, Gurulakshmi Maddala, Narendra Babu Simhachalam, Suresh Sripada, Raghavender Mitty, *Highly effective SnS composite counter electrode sandwiched bi-function CeO<sub>2</sub>:Er<sup>3+</sup>/Yb<sup>3+</sup> assisted surface modified photoelectrode dye sensitized solar cell exceeds 9.5% efficiency*, Solar energy, Vol No.207, pp.1158-1164, Elsevier, september, 2020
- Rajesh Siripuram, P Satya Gopal Rao, Suresh Sripada, *Influence of nano crystalline behavior of Nb<sub>2</sub>O<sub>5</sub>-Sb<sub>2</sub>O<sub>3</sub>-TeO<sub>2</sub> glass ceramics on structural and thermal studies*, Materials Today; Proceedings, ISBN No.Article in press , Elsevier, July , 2020
- M. Sumalatha, S. Shravan Kumar Reddy, M. Sreenath Reddy, Suresh Sripada, M. manivel, Ch. Gopal Reddy, Y. Yadagiri reddy, *Raman and in-field 57Fe Mössbauer study of cation distribution in Ga substituted cobalt ferrite (CoFe<sub>2</sub>-xGa<sub>x</sub>O<sub>4</sub>)*, Journal Alloys and compounds, Vol No.837, pp.155478, Elsevier, October, 2020
- M.Sumalatha, S. Shravan Kumar Reddy, M. Sreenath Reddy, Suresh Sripada, Y. Yadagiri Reddy, Ch. Gopal Reddy, V. Raghvendra Reddy, P.Venkat Reddy, *Effect of indium substitution on structural and hyperfine parameters of CoFe<sub>2</sub>O<sub>4</sub>*, AIP conference proceedings, Vol No.2220, Issue No.1, AIP , May, 2020
- P.Satya Gopal Rao, Rajesh Siripuram, Suresh Sripada, *Impedance analysis of TeO<sub>2</sub>-SeO<sub>2</sub>-Li<sub>2</sub>O nano glass system*, Results in Physics , ISBN No.2211-3797, Vol No.Volume 13 , pp.1-13, Elsevier, February, 2019
- G.Sreenivas, P.Mahesh, G. Biswadip, Sripada Suresh, P.V.N Rao, M.Krishna Chaitanya, P. Srinivasulu, *Spatio-temporal distribution of CO<sub>2</sub> mixing ratio over Bhubaneswar, Varanasi and Jodhpur of India - airborne campaign*, Atmospheric Environment, ISBN No.1352-2310, Vol No.Volume 201, pp.257-264, Elsevier, January, 2019
- Lavanya Kunduru, Suresh Sripada, S. C. Rakesh Roshan, N. Yedukondalu, M. Sainath, *Pressure induced semimetallic B<sub>2</sub> phase of alkaline earth tellurides*, Journal of Physics; conference proceedings, Vol No.1495, pp.19-21, IOP, December, 2019
- Satya Gopal Rao Patange, Rajesh Siripuram, Suresh Sripada, *Structural study of TeO<sub>2</sub>-SeO<sub>2</sub>-Li<sub>2</sub>O ternary glass system using Raman and IR*, Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B, ISBN No.0031-9090, Vol No.Volume 59, Issue No.2, pp.88-92, Society of Glass Technology, April, 2018
- Padigela Srinivas Reddy, V. Prashanth Kumar, Suresh Sripada, *Structural Properties of Pr<sub>1-x</sub>Sr<sub>x</sub>FeO<sub>3</sub> materials For Solid Oxide Fuel Cells*, IJSRET, ISBN No.2395 - 566X, Vol No.Volum 4, Issue No. Issue 6, pp.1059-1061, IJSRET, Nov - Dec, 2018
- Rajesh Siripuram, P. Satyagopal Rao, Suresh Sripada, *Infrared and Raman Spectroscopic Investigations of xSrO-(40-x) As<sub>2</sub>O<sub>3</sub> -60TeO<sub>2</sub> Glass System*, International Conference on Emerging Trends in Engineering, Science and Management , ISBN No.978-93-86171-32-0, pp.1282-1288, March, 2017
- Siripuram Rajesh, P.Satya Gopalrao, V.V. Srinivasu, Sripada Suresh, *Electron paramagnetic resonance of V<sup>4+</sup> ions in the xB<sub>2</sub>O<sub>3</sub>-(100-x)TeO<sub>2</sub> (x=0 to 50 mol%) binary glass system*, Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. B, ISBN No.0031-9090, Vol No.58, Issue No.2, pp.63-67, Society of Glass Technology, April, 2017
- V. Prashanth Kumar, Padigela Srinivas Reddy, Suresh Sripada, C. Vishnuvardhan, *Preparation and Characterization of Pr<sub>1-x</sub>Sr<sub>x</sub>MO<sub>3</sub>(PSMO) (0<x<0.6) Nanomaterials*, Materials Today: Proceedings, ISBN No.2214-7853, Vol No.3, pp.3709-3712, Elsevier, 2016
- Patange Satya Gopal Rao, Rajesh Siripuram, Sripada Suresh, *Structural evaluation on TeO<sub>2</sub>-SeO<sub>2</sub>-R<sub>2</sub>O ternary glass system using Raman and IR*, Emerging Materials Research , ISBN No.2046-0147, Vol No.5, Issue No.1, pp.95-99, Institution of Civil Engineers, October, 2015
- Vijay Singh, Gobburu Sivaramaiah, J.L. Rao, Suresh Sripada, S.H. Kim, *An electron paramagnetic resonance and optical study of Cr doped BaAl<sub>2</sub>O<sub>19</sub> powders*, Ceramics International, ISBN No.0272-8842, Vol No.Volume 40, Issue No.Issue 7, Part A, pp.9629-9636, Elsevier, February, 2014
- Suresh Sripada, *Study of Dielectric Relaxation in 60B<sub>2</sub>O<sub>3</sub>-10TeO<sub>2</sub> -5TiO<sub>2</sub> -25R<sub>2</sub>O(R= Li, Na & K) Quaternary Glass System*, International Journal of Engineering Research and Applications, ISBN No.2248-9622, Vol No.Vol. 4, Issue No.Issue 1(Version 3), pp.136-140, International Journal of Engineering Research and Applications, January, 2014
- Suresh Sripada, D. Esther Kaplana Rani, G. Upender, P. Gayathri Pavani, *DSC, Raman and Impedance Spectroscopy Studies on the xB<sub>2</sub>O<sub>3</sub>-(90-x)TeO<sub>2</sub>-10TiO<sub>2</sub>(where x= 0 to 50 mol%) GlassSystem*, Journal of the Korean Physical Society, ISBN No.1976-8524, Vol No.Vol. 62, Issue No.5, pp.762-769, Springer Science, March, 2013
- S. Suresh, P. Gayathri Pavani, V. Chandra Mouli, *ESR, optical absorption, IR and Raman studies of xTeO<sub>2</sub> + (70 - x)B<sub>2</sub>O<sub>3</sub> + 5TiO<sub>2</sub> + 24R<sub>2</sub>O:1CuO (x = 10, 35 and 60 mol%; R = Li, Na and K) quaternary glass system*, Materials Research Bulletin, ISBN No.0025-5408, Vol No.Volume 47, Issue No.Issue 3, pp.724-731, Elsevier, March, 2012
- P.Gayathri Pavani, S. Suresh, V. Chandra Mouli, *Studies on boro cadmium tellurite glasses*, Optical Materials, ISBN No.1873-1252, Issue No.34, pp.215-220, Elsevier, September, 2011
- S. Suresh, M. Prasad, V. Chandra Mouli, *AC conductivity and impedance measurements in alkali boro-tellurite glasses*, Journal of Non-Crystalline Solids , ISBN No.0022-3093, Vol No.356, pp.1599-1603, Elsevier, June, 2010
- G. Upender, C.P. Vardhani, S. Suresh, A.M. Awasthi, V. Chandra Mouli, *Structure, physical and thermal properties of WO<sub>3</sub>-GeO<sub>2</sub>-TeO<sub>2</sub> glasses*, Materials Chemistry and Physics , ISBN No.0254-0584, Issue No.121, pp.335-341, Elsevier, January, 2010
- G. Upender, Suresh Bharadwaj, A.M. Awasthi, V. Chandra Mouli, *Glass transition temperature-structural studies of tungstate tellurite glasses*, Materials Chemistry and Physics, ISBN No.0254-0584, Vol No.Volume 118, Issue No.Issues 2&3, pp.298-302, Elsevier, December, 2009
- *ESR,IR Optical absorption and Raman studies of Cu<sup>2+</sup> ion doped xB<sub>2</sub>O<sub>3</sub>-(100-x)TeO<sub>2</sub> glass system*, Phys.Chem.Glasses, ISBN No.1753-3562, Vol No.Volume 46, Issue No.1, pp.27-30, Society of Glass Technology, February, 2005
- S. Suresh, Swapna, V. Chandra Mouli, *Spectroscopic studies of Cu<sup>2+</sup> doped in xPbO-(100-x) B<sub>2</sub>O<sub>3</sub> non linear optical glass system*, Ferroelectrics, ISBN No.0015-0193, Vol No.325, pp.105-109, Taylor and Francis, April, 2005
- Suneel Singh, Suresh Sripada, *Phase conjugate emission enhancement via incoherent processes*, Optics Communications, ISBN No.0030-4018, Vol No.226, Issue No.1-6, pp.393-404, Elsevier, October, 2003

## National Journals

- P Satya Gopal Rao, Rajesh Siripuram, Suresh Sripada, *Structural and optical properties of TeO<sub>2</sub>- SeO<sub>2</sub>-Na<sub>2</sub>O glass system*, Indian journal of Pure & Applied Physics , Vol No.58, Issue No.01, pp.50-62, 2020
- S. Suresh, M. Prasad, G. Upender, V. Kamalaker, V. Chandra Mouli, *ESR, IR Optical absorption and Raman studies of 60B<sub>2</sub>O<sub>3</sub>+10TeO<sub>2</sub>+5TiO<sub>2</sub>+24R<sub>2</sub>O:1CuO quaternary glass system*, Indian Journal of Pure & Applied Physics , ISBN No.0975-1041, Vol No. Vol 47, pp.163-169, Indian Journal of Pure & Applied Physics , March, 2009
- J. Chinna Babu, S. Suresh, V. Chandra Mouli, *ESR, IR and optical absorption studies of Cu<sup>2+</sup> spin probe in xNa<sub>2</sub>O-(50-x)ZnO-50B<sub>2</sub>O<sub>3</sub> ternary glass system*, Indian Journal of Pure & Applied Physics, ISBN No.0975-1041, Vol No.43, pp.833-837, Indian Journal of Pure & Applied Physics, November, 2005
- Swapna, S. Suresh, V. Chandra Mouli, *spectroscopic and transport studies of Cu<sup>2+</sup> doped in (30-x)Na<sub>2</sub>O-xNaF-50 B<sub>2</sub>O<sub>3</sub>-20Bi<sub>2</sub>O<sub>3</sub> glasses*, Indian Journal of Pure & Applied Physics, ISBN No.0975-1041, Vol No.42, pp.560-564, Indian Journal of Pure & Applied Physics, August, 2004
- S. Suresh, Swapna, V. Chandra Mouli, *ESR, and optical absorption and transport studies of Cu<sup>2+</sup> spin probe in 50Li<sub>2</sub>O<sub>3</sub>-(50-x)B<sub>2</sub>O<sub>3</sub>-xBi<sub>2</sub>O<sub>3</sub> glass system*, Indian Journal of Pure & Applied Physics, ISBN No.0975-1041, Vol No.41, pp.954-960, Indian Journal of Pure & Applied Physics, December, 2003

## - Events Participated/Organized

### - Presented

- Presented a paper in *Recent Advances in Smart Materials and Probing Techniques*, Telangana University Nizamabad,
- Presented a paper in *Two day National conference on Recent Trends in Science and Technolog*, JNTUHCEJ Kondagattu,
- Presented a paper in *International conference on Advanced Materials and Manufacturing Technologies*, JNTUH Kukatpally Hyderabad,
- Presented a paper in *International seminar on Glasses and other Functional materials*, Acharya Nagarjuna University Guntur,
- Presented a paper in *National seminar on Physics & Quality of life*, Osmnia University college for Women, Koti, Hyderabad,
- Presented a paper in *National conference on Advances in Materials science and Technology*, Kakatiya University, Warangal,
- Presented a paper in *Recent trends in Nano and Bio Sciences*, Post graduate college of science, Saifabad, OU, Hyderabad,
- Presented a paper in *National conference on advanced materials, devices and technologies*, Sri Venkateshwara University. Thirupathi,
- Presented a paper in *National conference on Novel Materials and Technologies*, Sri Venkateshwara University. Thirupathi,
- Presented a paper in *International symposium of Research students on materials science and Engineering*, IIT Madras,
- Presented a paper in *13th national seminar on Ferroelectrics and Dielectrics*, Delhi University,
- Presented a paper in *4th Asian Meeting on Ferroelectrics*, IISC Bangalore,
- Presented a paper in *International Conference on Material Science for Societal Advancement (MSSA-2020)*, Hyderabad,
- Presented a paper in *International Conference on Material Science (ICMS-2020)*, Tripura,
- Presented a paper in *3rd International Conference on Current Trends in Materials Science and Engineering (CTMSE 2021)*, Kolkata,
- Presented a paper in *Material Science and Manufacturing Technology 2021*, Coimbatore,

### - Participated

- Participated in a Conference on *Recent Advances in Physical Sciences and Future Challenges*, Osmnia University, Hyderabad,
- Participated in a Conference on *Recent Advances in Materials Science and Technologies*, Telangana University Nizamabad,
- Participated in a Conference on *International Conference on Emerging Trends in Engineering, Science and Management*, Sphoorthy Engineering College, Hyderabad,
- Participated in a Conference on *Advances in Materials and Materials Processing*, Karunya University Coimbatore,
- Participated in a Conference on *2nd International Conference on Nano Science & Engineering Applications - 2018*, JNTUH Kukatpally Hyderabad,
- Participated in a Conference on *International Conference on Advanced Functional Materials*, RGUKT Basar,
- Participated in a Conference on *International conference on Technologies for Smart Green connected Societies 2021*, Andhrapradesh,
- Participated in a Refresher Course on *Contemporary Development Trends in Materials Science and Engineering*, Hyderabad,
- Participated in a FDP on *Nanomaterials for Energy Harvesting and Biomedical Applications*, Hyderabad,
- Participated in a FDP on *The Use of Virtual Physics Lab â€œ Creating next Generation Teachers*, Medchal,
- Participated in a FDP on *Moodle Learning Management System*, Sangareddy,
- Participated in a Conference on *Advanced Functional Materials*, Hyderabad,

## - Honors & Professional Activities

### - Professional Activities

- He has been nominated as the Member of Board of Studies for the department of Physics of various JNTUH affiliated colleges. He is an Editorial Board Member for Institution of Electronics and Tele communication Engineers, Open Access and peer reviewed Journal which is approved by UGC.

### - Teaching

- Engineering Physics & Applied Physics in EEE, CSE, IT, ECE, ME I & II (2010 to Til)

### - Administrative Positions Held

- Head of the Department, Jawaharlal Nehru Technological University Hyderabad College of Engineering Jagtial, 22 Dec 2016 - 06 Jun 2019
- Hostel Dy. Warden for Boys, Jawaharlal Nehru Technological University Hyderabad College of Engineering Jagtial, 15 Aug 2013 - 11 Jun 2015

**-> Project/Research Guidance**

**- Students**

Student Name	Title	Year	Download
P.Satya Gopal Rao	Synthesis and Characterization of Tellurium Selenide Oxide based Glasses	2020	<a href="#">Download</a>
S Rajesh	Influence of Nano crystalline Phases on Structural and Thermal Properties of TeO <sub>2</sub> based glasses	0	
Medipelli Sumalatha	ELECTRICAL AND MAGNETIC PROPERTIES OF Ga, In DOPED SPINEL FERRITES	0	
G. Sreenivas	Atmospheric Carbon dioxide (CO <sub>2</sub> ) retrieval and monitoring	0	
PADIGELA SRINIVASREDDY	STRUCTURAL, THERMAL AND ELECTRICAL PROPERTIES OF SOLID OXIDE FUEL CELLS	0	
K.Venkateshwarlu	Preparation and Characterization of Selenium oxide based glasses	0	
K. Lavanya	Structural electronic and lattice dynamical properties of binary and ternary compounds under high pressure	0	

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Physics

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