

Name: S.Sudhakara sarma
Qualification: M.Tech in Mechanical Engineering.
Designation: Scientist 'D'
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Experience:

a) Expertise:

1. Design and development of porous and thermosyphon Heat pipes and heat pipe heat sinks
2. Design and Fabrication of experimental set ups like Hot extrusion tooling, Attritor for high energy ball milling, set up for supercritical drying of aerogel by liquid CO₂, etc.

b) Technology transfers and product development:

1. Heat pipe heat sinks
2. Chromium based interconnect material for SOFC
3. Heat pipe based solar cooker
4. Heat extraction device for control panel cooling
5. Heat pipes for bunker heating

a. Current Research Areas of Interest :

1. Synthesis of nanofibers by electro spinning
2. Development of PA 6 Nanofiber coatings on air filtration medium
3. Aluminum composites

b. List of Journal Publications:

1. S.Sudhakara sarma, Dr.T.N. Rao, "A novel method for measurement of porosity in Nanofiber mat using pycnometer in filtration" Journal of Engineered fibers and fabrics Volume 8, issue 4,2013,132 -137.
2. "Structure and properties of nano scale oxide dispersed iron" by R Vijay, M Nagini, S.Sudhakara Sarma, M Ramakrishna, A.V. Reddy, and G Sundararajan , Metallurgical and Materials Transactions A Vol 45 A February 2014-777.
3. "Microstructure and properties of hot extruded Cu-1 wt% Al₂O₃ nano-composites synthesized by various techniques"

S.B.Chandrasekhar, S.SudhakaraSarma, M.Ramakrishna, P.Suresh Babu,Tata N.Rao , B.P.Kashyap , Materials Science&Engineering-A 591(2014)46–53

4. “Fabrication of Compound Nanofibers For Antibacterial Applications in Filtration” S.Sudhakara Sarma, IJETAE, vol 4 May 2015 P832.
- c. List of Patents: Patent applied for “processing of powders of a refractory metal based alloy, patent application no: 11/898,065,dt 07/09/2007,USA.