

Bio-data

- a. Name: S.Sudhakara sarma
- b. Qualification: M.Tech in Mechanical Engineering.
- c. Designation:Scientist 'D'
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- e. Experience:

- a) Area of Expertise/Interest:

1. Heat transfer /Heat pipe based heat sinks
2. Powder metallurgy- Cr based interconnect, ODS Iron aluminides.
3. Naomaterials- Nano boron powders by cryo milling and nanofibers by electrospinning.
4. 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 for SOFC
3. Heat pipe based solar cooker
4. Heat extraction device for control panel cooling
5. Heat pipes for bunker heating
6. Nano fibre coatings on filter media for high performance automotive filters.
7. Nano boron powder.

- f. List of Journal Publications:

1. A Novel Method for measurement of porosity in nanofiber mat using the pycnometer , Sudhakara sarma sreedhara, Narasinga Rao T ata, Journal of Engineered fibers and fabrics, vol 8, issue 4, 2013, P132-137.

2. **“Structure and properties of nano scale oxide dispersed iron”**
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 extrudedCu–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 Anti bacterial application in filtration”** S.Sudhakara sarma, International Journal of Emerging Technology and Advanced Engineering, Volume 4, Issue 5, May 2014, P832.
5. **“Enhanced Electrochemical Performance of Electrospun SiO₂Nanofibers as Binder-free Anode”** Tejassvi Pakki, Sudhakara S. Sarma, Neha Y. Hebalkar, Srinivasan Anandan, Krishna Mohan Mantravadi, and Tata N. Rao, Chemistry letters ,no 7 vol 46, 2017.
6. **“Nanocrystalline ODS-iron aluminide by cryo-milling: consolidation,microstructure and mechanical behavior”** S Sudhakara Sarma , Satya Prasad, Joydip Joardar,KSuresh,AVReddy andR Vijay, Materials Research Express, vol 6,Issue 10,2019.

g. List of Patents:

1. **Processing powders of a refractory metal based alloy for high densification, Sudhakara sarma sreedhara , Ranganathan sundareshan, US2009/0068055A1.**
2. **Process for producing the nanoboron by cryo-milling, Sreedhara Sudhakara sarma, R.Vijay, T.N Rao, Indian Application no: 201911025690 dtd 27-06-2019**

