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Field of Work

- Synthesis of various nanomaterial (metal oxides, carbides, nitrides etc)
- Synthesis of 1-D nanostructures
- Characterization of nanostructures

Technology transfer

- Technology transfer to 4 Indian industries on “Metal oxide nanopowder production technology”

Publications (latest 3)

For full list refer to

<https://www.researchgate.net/profile/C-Balasubramanian-2>

" Large scale synthesis of copper-nickel alloy nanoparticles with reduced compressibility using arc thermal plasma process " Subrat Kumar Das, Arkaprava Das, Mattia Gaboardi, Simone Pollastri, G.D. Dhamale, C. Balasubramanian, Bobby Joseph, *Scientific Reports* **11**, 7629 (2021)

“Morphological, electronic, and magnetic properties of multicomponent cobalt oxide nanoparticles synthesized by high temperature arc plasma” Arkaprava Das, C Balasubramanian, Prachi Orpe, Gian Marco Pugliese, Alessandro Puri, Augusto Marcelli and Naurang L Saini, *Nanotechnology* **33** (2022) 095603 (13pp)

“Modelling and experimental investigations of composition-dependent heat and mass transfer during Cu–Ni alloy nanoparticle synthesis in a transferred arc helium plasma,” G. D. Dhamale, **S. Das**, A. B. Murphy, S. P. R. Kandada, C. Balasubramanian and S. Ghorui, *J. Phys. D. Appl. Phys.*, **55** (2022) 375203, 2022