



**Dr. Parthasarathi Bera**

**Senior Principal Scientist**

**Surface Engineering Division**

**CSIR–National Aerospace Laboratories, Bengaluru**

#### ■ **Area of Expertise:**

- ✓ Synthesis of oxide nanomaterials such as spinels, perovskites
- ✓ Wind turbine blade protective coating, thermal insulation coating and microwave absorption coating, radiative cooling coating
- ✓ Characterization by XRD, SEM, TEM, XPS, FTIR, Raman, UV-Visible, magnetic and catalytic properties
- ✓ Heterogeneous catalysis for green energy

#### ■ **Specialization:**

- ✓ Preparation of nanomaterials and nanocomposite coatings, their characterization and properties
- ✓ Characterization of materials, coatings and thin films by X-ray photoelectron spectroscopy (XPS)

#### ■ **Education:**

- B. Sc. and M. Sc. in Chemistry:

Jadavpur University, Kolkata

#### ■ **Publications:**

- ✓ Journals: 157
- ✓ Citation counts: 8885 (Google Scholar)
- ✓ h-index: 50 (Google Scholar)
- ✓ Patents: 3 Indian patents
- ✓ Book chapters: 4
- ✓ Technical reports: 31

■ **No. of international and national conference/workshop participations:** 32

■ **No. of invited lectures:** 12

■ **Subject area willing to guide the student:** Materials Chemistry/Physical Chemistry/Materials Science

■ **Google scholar:** <https://scholar.google.co.in/citations?user=hnzWU84AAAAJ&hl=en>

■ **Representative journal articles:** 6