Pradeep Kumar Sow, Ph.D.

Associate Professor

Department of Chemical Engineering

BITS Pilani K. K. Birla Goa Campus

Research Experience: 16 years

Patents: Granted: 0 Applied: 04

Research Focus :

Electrochemistry, Surface and interfacial science, Diagnostics Designs Hydrogen Production through water splitting , Fuel cells, Continuous flow electrochemical cell systems.

Technology Licensed: NA

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Interested Industry member kindly connect through:
Email Id: icc-industryacademia@iccmail.in

Technologies (Proof of Concept- POC): TRL level

- HI electrodecomposition (ONGC Energy Centre Funded) [TRL 4].
- Water splitting/alkaline electrolysers (SIEMENS Funded) [TRL 3].
- Resin treatment process for Copper electrorefining (HINDALCO Funded) [TRL 3].
- Surfaces with switchable wettability (Superhydrophobic to superhydrophilic) [TRL 3].
- Superhydrophobic surfaces for antifouling, corrosion protection, self cleaning [TRL 4].
- Oil-water separation systems using superhydrophobic/superhydrophillic surfaces [TRL 4].

Technologies under development:

- AEM electrolysers for hydrogen production using water splitting [TRL 2].
- Oil-water separation systems for application in liquid-liquid extraction [TRL 2].

Targeted Industries:

Process Industry, waste water treatment, Pharmaceutical industry

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