



# Prof. Parag R. Gogate

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**Research Experience:** 25 years

**Patents:** Granted: 06

## **Research Focus :**

- Process Intensification.
- Advanced Oxidation for wastewater treatment.
- Improved crystallization using ultrasound.
- Improved Synthesis of nanomaterials & its application as catalysts.
- Enzymatic reactions.
- Conversion of sustainable biomass into value added products including biofuels and soil additives.

**Technology Licensed:** NA

Interested Industry member kindly connect through:

Email Id: [icc-industryacademia@iccmil.in](mailto:icc-industryacademia@iccmil.in)

## **Technologies (Proof of Concept- POC): TRL level 4**

- Hydrodynamic cavitation for wastewater treatment.
- Combined advanced oxidation processes for treatment of bio refractory molecules.
- Sono-crystallization.
- Synthesis of Nanoparticles including nano-composites.

## **Technologies under development:**

- Intensified conversion of sustainable biomass into soil additives.
- Intensified conversion of sustainable biomass into biofuels.
- Sustainable biomass to Levulinic acid and other products.

## **Targeted Industries:**

- Pharmaceutical industries for wastewater treatment and crystallization.
- Pesticide manufacturing and other specialty chemicals for wastewater treatment.
- All chemical manufacturing industries for process intensification and improvement.
- All chemical manufacturing industries for environmental audits, ETP evaluations.

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