

Publication details:

1) Journal Papers

Instrument detail Publication:

- i. S. Das et al, *React. Chem. Eng.* **2023**, 8, 2211-2222. DOI: <https://doi.org/10.1039/D3RE00107E>
- ii. S. Das et al. Industrial & Engineering Chemistry Research, Communicated. Manuscript ID: ie-2026-02235z
Title: "A Comparative Experimental Evaluation of an Automated Batchwise and Continuous Operation Mode for Scaling Up a Falling Film Looping Photoreactor"

Organic transformation:

- iii. S. Das et al, *RSC Adv.*, **2024**, 14, 34925-34937. DOI: <https://doi.org/10.1039/D4RA05774K> .
- iv. S. Das et al, Organic & Biomolecular Chemistry, 2026, Advance Article [10.1039/D6OB00345A](https://doi.org/10.1039/D6OB00345A).

Material/Environmental/Water Engineering:

- iii. S. Das et al, *J. Photochem. Photobiol., A*: **2025**, 459, 116076.
DOI: <https://doi.org/10.1016/j.jphotochem.2024.116076>

2) Indian Patents

Based on Photoreactors:

- i. An improved batch-flow-photo-reactor, Patent No: 412866 (Granted), 2022. Inventor: Dr. Subrata Das
- ii. Geometrically scalable, automatic batch-wise operable, batch-flow photoreactor. Patent No: 202533026871 (Published), 2025. Inventor: Dr. Subrata Das
- iii. Geometrically scalable, Software operated continuous batch-flow photoreactor, Patent No: 202533008330 (Published), 2025. Inventor: Dr. Subrata Das

Based on using Photoreactors.

- i. NOVEL BIOACTIVE DIHYDROPYRIDO[2,3-D]PYRIMIDINE COMPOUNDS AND PROCESS FOR PREPARATION THEREOF. Grant No.: 565331, 2025. **Dr. Subrata Das**