



Dr. Chetan J. Bhongale

Associate Professor

Department of Applied Chemistry, Energy and Environment, DIAT Pune

Academic Background:

- PhD- NCTU, Taiwan 2005
- Post-Doctoral Fellow: University of Nevada, USA
Humboldt Fellow, Germany
JSPS Fellow, Japan

SCOPUS:

<https://www.scopus.com/authid/detail.uri?authorId=6507863176>

Research Interests:

My research group works on Organic-Inorganic Hybrid Nanomaterials, Nanotechnology, Biomimicry, Bio-inspired Materials, Biomineralization, Photocatalysis, MXenes Synthesis & Characterization, Hyphenated TGA-FTIR Technique for Materials' Characterization.

Honours and Awards:

1. Humboldt Post-doctoral Research Fellow, Germany	4. Research Professor, JAIST, Japan
2. JSPS Post-doctoral Research Fellow, Japan	5. Post-doctoral Research Fellowship, UNLV, USA
3. Research Fellowship, Ministry of Taiwan	6. Referee for various international reputed journals.

Research Publications (Selected Five):

1. Simultaneous TG-FTIR Analysis of Molluscan Gastropod Shell of *N. Josephinia*: Evidence of Stable Isotopic CO₂ Liberation (2025) **ChemistrySelect**, 10 (22). DOI: [10.1002/slct.202501907](https://doi.org/10.1002/slct.202501907)
2. Simultaneous TG—FTIR studies show high thermal resilience in organic proteinous matrix of molluscan gastropod shell of *N. josephinia* (2024) **Journal of Analytical and Applied Pyrolysis**, 181, 106609.
3. Simultaneous TG-FTIR analyses on molluscan shells: Characterization and thermal stability of organic-inorganic components (2022) **Chemical Geology** 611, 121132.
4. A new insight into the adsorption-dissolution growth mechanism of zinc oxide hollow hexagonal nanotowers (2019) **RSC Advances**, 9, 20728-20732.
5. Emission enhancement by formation of aggregates in hybrid chromophoric surfactant amphiphile/silica nanocomposites. **Angew. Chem. Int. Ed.**, 45, 1404-1408.

Books:

Organic Nanoparticles and Organic-Inorganic Hybrid Nanocomposites: Synthesis and Characterization.

Chetan J. Bhongale and Chain-Shu Hsu, LAP-Lambert Academic Publishing, Germany.

Summary:

Publications-	Projects-	Patents-	Professional Membership
Journal – 40 Conference – 30 Book – 1	Ongoing- 1 Completed- 4	2	1. AvH Alumni Association (HAP) 2. Adhesion Society of India, Life Member 3. Indian Society of Analytical Scientists (ISAS), Life Member

Institute Responsibilities:

Coordinator, NSS, DIAT

Coordinator, DIAT Faculty Lecture Series

Training & Placement Officer

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