Dr. HARISH PHATTEPUR

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Education

	Degree	Year	Institute	Specialization
1	BE	2000	R.V. College of Engineering, Bangalore	Chemical
2	M Tech	2006	Siddaganga Institute of Technology, Tumkur	Chemical
3	PhD	2020	VTU, Belagavi	Chemical

Professional Experience

	Date (from-to)	Designation	Organization
1	Sep 2002 to Dec 2003	Production Engineer	Flavors and Essence Pvt. Ltd., Mysore
2	Sep 2001 to Aug 2002	Project Engineer	M.J Associates, Bangalore

(Please fill in reverse order. Current designation should be at the top)

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

Department Test co-ordinator (2007 to 2023)

Department Placement coordinator (2024 onwards)

Department Alumni coordinator (2020-2024)

Awards and Honors

Got 1st prize in the poster presentation held at NIT, Warangal

Courses Taught

Undergraduate Courses

Pilot plant and scale up methods, material science and engineering, transport phenomena, chemical technology, chemical reaction engineering, process dynamics and control, momentum transfer, understanding equipment data sheet, Environmental studies, Samskrutika kannada, Biology for Engineers

Postgraduate Courses
Transport phenomena, Downstream process technology

Research Areas

Nanomaterial, waste water treatment, pollution control

Publications

Journals

1. H. Phattepur, S. K. Chaurasia and A. S., "Deposition of vanadium-doped black TiO_2 nanoparticles on glass beads to enable the degradation of methylene blue under visible light," *Int. J. Chem. React. Eng.2025*, [Online]. Available: https://doi.org/10.1515/ijcre-2024-0179
2. H. Phattepur, G. Nagaraju, R. Shruthi, R. Sandhya and B. C. M., "Synthesis of Zn doped black TiO_2 nanoparticles for degradation of 2,4,6 tri-chloro-phenol under visible light," *J. Indian Chem. Soc.*, vol. 100, no. 2, p. 100881, 2023.
3. P. G. Hiremath, H. Phattepur, O. S. Baradol and K. V. Shreyas, "Application of response surface methodology for defluoridation of water using zirconia-activated carbon nanocomposite," *Indian Chem. Eng.*, vol. 65, no. 5, pp. 476–485, 2023.
4. H. Phattepur, B. S. Gowrishankar, M. Shekhar and P. G. Hiremath, "A facile cellulose acetate membrane fabrication using mesoporous TiO_2 nanoparticles: Synthesis, characterisation and its ...," *J. Chem. Technol. Metall.*, vol. 57, no. 5, 2022.
5. H. Phattepur and P. G. Hiremath, "Fabrication of Al_2O_3 supported TiO_2 membranes for photocatalytic applications," *Mater. Today: Proc.*, vol. 65, pp. 3694–3699, 2022.
6. H. Phattepur and B. S. Gowrishankar, "Non-linear regression analysis of the kinetics of photocatalytic degradation of phenol using immobilised mesoporous TiO_2 nanoparticles on glass beads," *Indian Chem. Eng.*, vol. 63, no. 3, pp. 310–323, 2021.
7. S. B. Patil, H. Phattepur, G. Nagaraju and B. S. Gowrishankar, "Highly distorted mesoporous S/C/Ti^{3+} doped black TiO_2 for simultaneous visible light degradation of multiple dyes," *New J. Chem.*, vol. 44, no. 23, pp. 9830–9836, 2020.
8. H. Phattepur, G. B. Siddaiah and N. Ganganagappa, "Synthesis and characterisation of mesoporous TiO_2 nanoparticles by novel surfactant assisted sol-gel method for the degradation of organic compounds," *Period. Polytech. Chem. Eng.*, vol. 63, no. 1, pp. 85–95, 2019.
9. H. Phattepur, B. S. Gowrishankar and G. Nagaraju, "Synthesis of gadolinium-doped TiO_2 thin films by sol–gel spin coating technique and its application in degradation of rhodamine-B," *Indian Chem. Eng.*, vol. 61, no. 2, pp. 167–181, 2019.

10 S. B. Patil, H. Phattepur, B. Kishore, R. Viswanatha and G. Nagaraju, "Robust electrochemistry of black TiO_2 as stable and high-rate negative electrode for lithium-ion batteries," *Mater. Renew. Sustain. Energy*, vol. 8, no. 2, p. 10, 2019.

Patents

- Synthesis of Terbium doped black TiO_2 thin films by sol gel and spin coating method for Photocatalytic degradation of Chlorpyrifos (under process)