

## Faculty Profile

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**6. Qualification: Ph.D. (Pursuing)**

Sl. No.	Degree (UG, PG, PhD)	Specialization	Institute
01.	Ph.D. (Pursuing)	Chemical Engineering (Nanotechnology)	IIT Guwahati
02.	M.Tech.	Chemical Engineering (Process Control)	IIT Kanpur
03.	B.Tech.	Chemical Engineering	BIT Sindri

**7. Area of Specialization:** Micro and Nano Fluidics, Biosensors, Colloid and Interface science

**8. Professional Experience:**

**I) Teaching Experience:**

Sl. No.	Position held	Name of Organization	From	To
01.	Assistant Professor	BIT Sindri, Sindri	Jan 12, 2022	Till date
02.	Assistant Professor (on Contract)	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar	July 21, 2014	Dec 18, 2015
03.	Assistant Professor (Temporary Faculty on Contract)	National Institute of Technology, Raipur	July 23, 2013	May 31, 2014

**II) Research Experience:**

Sl. No.	Position held	Name of Organization	From	To
01.	Senior Student Research Associate	IIT Kanpur	May 1, 2013	July 22, 2013

## 9. Publications:

I) International Journal: (<https://orcid.org/0000-0002-4853-594X>)

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
01.	Efficient microextraction process exploiting spontaneous interfacial convection driven by Marangoni and electric field induced instability: A computational fluid dynamics study	Physics of Fluids	32	2020	014102
02.	Nanometer-Thick Superhydrophobic Coating Renders Cloth Mask Potentially Effective against Aerosol-Driven Infections	ACS Applied Bio Materials	4	2021	7921
03.	Carbon Dots and Methylene Blue Facilitated Photometric Quantification of Hemoglobin	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	271	2022	120906
04.	Chiral Resolution of Racemic Amines in $\mu$ -Reactor-Crystallizer (under review)	Chemical Engineering Science		2022	
05.	Noise Activated DNA Translocation in Gel Electrophoresis for Faster Resolution (under review)	Analytical Chemistry		2022	

## II) International Conference:

Sl. No.	Name of the Conference in which publication has been made
01.	International Conference on Advances in Chemical Engineering - 2020

## 10. Conference/ Workshop/Seminar/ Organized

Sl. No.	Title of Seminar / Conferences / Short – term Courses	Name of Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term	No. of Participants
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				<b>Courses</b>	
01.	National Seminar on Sustainability of Engineering Education	Prof. M.K. Jha	Department of Science and Technology, Government of India	March 26–27, 2015	

### 11. Symposium/ Workshop/Seminar/ Attended

01.	ISTE-SRM Short Term Training Programme on “Recent Advancement in Hydrogen Engineering”	Dr. B. R. Ambedkar National Institute of Technology, Jalandhar	Sep 11-15, 2014
02.	Industry-Academia Interface Seminar on Upstream Petroleum Engineering	Indian Institute of Technology, Guwahati	Nov 10, 2018
03.	5 <sup>th</sup> National Workshop on NEMS/MEMS & Theranostic Devices	Indian Institute of Technology, Guwahati	Feb 21-23, 2019
04.	Research Conclave’19	Indian Institute of Technology, Guwahati	March 14-17, 2019
05.	First National Student Conference on “Advances in Chemical Engineering”	Assam Engineering College, Guwahati	Aug 30, 2019
06.	Recent Trends in Chemical and Allied Industries - Technology, Economics and Related Issues	University of Calcutta, Kolkata	Sept 13, 2019
07.	Deep Eutectic Solvents for Environmental Remediation and Energy Storage	Indian Institute of Technology, Guwahati	July 29-30, 2020