

# Ritvika Kushwaha

CHEL-204, Department of Chemistry, IIT Guwahati

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[Portfolio Link](#)



## PUBLICATIONS

### Mannose-Decorated Composite Peptide Hydrogel with Thixotropic and Syneresis Properties and its Application in Treatment of Leishmaniasis

*Chem. Asian J.*, **2022**, e202200550

Payel Dowari, Shalini Roy, Saurav Das, Sumit Chowdhuri, **Ritvika Kushwaha**, Basab Kanti Das, Anandita Ukil, Debapratim Das.

### Cumulative Effect of pH and Redox Triggers on Highly Adaptive Transient Coacervates

*Chem. Eur. J.*, **2023**, e202203820

Sumit Chowdhuri, Saurav Das, **Ritvika Kushwaha**, Tanushree Das, Basab Kanti Das, Debapratim Das\*.

## EDUCATION

### IIT, Guwahati — *Doctor Of Philosophy*

2021 - Present

8.75 (C.P.I.)

### IIT, Guwahati — *Master Of Science*

2019 - 2021

8.50 (C.P.I.)

### T.D. College (Purvanchal University) — *Bachelor Of Science*

2015 - 2018

66.22%

### Dr. Rizvi Learners' Academy(CBSE) — *Intermediate*

2015

82.2%

### Dr. Rizvi Learners' Academy(CBSE) — *High School*

2013

10(C.G.P.A.)

## SKILLS

### Skills in Chemistry

Organic synthesis, Reaction optimization, Solid state peptide synthesis, Stretchable hydrogel preparation, 3D Printing, Optical Microscopy.

### Software and Programming

Origin, MS Office, GaussianView, Mestrenova, Adobe Illustrator, Gfortran, ChemDraw, Fusion 360.

### Instrumentation and analytical techniques

FTIR, UV-Visible and Fluorescence spectroscopy, pHmetry, DLS, Rheometer, and Source meter.

Operator of Bruker MALDI at CIF IIT Guwahati.

## PROJECTS

**Biothiol-triggered Turn-on Fluorogenic Probes for the Delivery of Anti-cancer Compound Amonafide.** (Under the supervision of **Dr. Krishna Pada Bhabak**) (Jan-May, 2021)

## ACADEMIC ACHIEVEMENTS

**IIT JAM 2019** AIR 445

**CSIR-NET 2020** AIR 92

**Gate 2021** Qualified

**PMRF 2022** Selected for May 2022 Cycle