



Jessica Kripalani

Date of birth: 18/10/2001 | **Nationality:** Indian | **Phone number:**

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ABOUT ME

Please note that my official name is Tarun Kripalani. This is the name that's used in my publications and certificates.

Please click the link to find my certificates for proof of employment and awards:

https://www.dropbox.com/scl/fi/9sc6u73tdjknlvbfsa51a/Certificates-and-LORs_removed.pdf?rlkey=0myva8xr1587d9f7ypslayhp2&dl=0

WORK EXPERIENCE

30/06/2022 – 22/09/2022 Freiberg, Germany

UNIVERSITY RESEARCH ASSISTANT TU BERGAKADEMIE FREIBERG INSTITUTE OF ENERGY PROCESS ENGINEERING AND CHEMICAL ENGINEERING

Experimental work in laboratory and small-technical plants to investigate thermochemical conversion processes (pyrolysis and gasification of biomass, waste/residues, or coal) including the characterisation of feedstock and products.

Analysis and collection of obtained data from experiments performed, as well as additional theoretical calculations (gas chromatography, titration, distillation, temperature variation during pyrolysis, weight percentage calculation, etc.); to discuss and ascertain the feasibility of waste feedstocks as a potential green source for gaseous and/or liquid fuel (obtained product).

Business or Sector Professional, scientific and technical activities |

Department Chemistry, Chemical Engineering and Process Engineering |

Address TU Bergakademie Freiberg Institut für Energieverfahrenstechnik und Chemieingenieurwesen, Fuchsmühlenweg 9, 09599, Freiberg, Germany |

Email felix.baitalow@iec.tu-freiberg.de | **Website** www.iec.tu-freiberg.de

12/02/2023 – CURRENT

SCIENTIFIC WRITER CONSUL ASSOCIATES

1. Creation of high school and first year chemistry-related questions everyday.
2. Performing detailed research on the scientific topics pertaining to the syllabus and/or framed questions.
3. Writing a detailed 200-300 word solution for each question along with formulas, molecular structures, etc.
4. Adding FAQ's and helpful tips and/or guides for every chapter.

Business or Sector Professional, scientific and technical activities | **Department** Education |

Website <https://www.consoulassociates.com>

28/11/2022 – 10/02/2023

SCIENTIFIC CONTENT STRATEGISING EARTH5R

Earth5R is an environmental organisation that has currently launched an app called the Earth5R: Your Environmental App. My responsibilities on the Earth5R team included.

1. Content strategising for the Earth5R app
2. Researching and Writing scientific news and articles with relevant cited sources

Business or Sector Information and communication | **Department** Content Strategy And Planning For Earth5R App |

Website <https://earth5r.org>

Link <https://earth5r.org/earth5r-apps-modules-know-act-inspire/>

● EDUCATION AND TRAINING

2019 – 2022

BACHELOR OF SCIENCE (B.SC) (HONS.) CHEMISTRY Chemistry Manipal University

Final grade 8.82/10 CGPA

● PUBLICATIONS

2022

Palladium-Catalyzed Cross-Coupling Reaction of N-Tosylhydrazones in Organic Synthesis: A Mini Review

- The paper attempts to review the applications and chemical uses of *N*-tosylhydrazone in a myriad of heterocyclic synthesis reactions for producing numerous quintessential pharmaceutical compounds.
- I attempt to explain the advantages of NTH such as its wide substrate scope, ease of availability, efficient reactions, mild reaction conditions, etc. trying to portray its advantages as a reactant.

2021

Detection and removal of arsenic contamination from aqueous media using nanomaterials

- The paper deals with the harmful ramifications of arsenic contamination in water, reviews the currently used methods of purification and proposes new and more efficient methods for the same.

● HONOURS AND AWARDS

Certificate Of Merit – 27th International Conference of International Academy of Physical Sciences (CONIAPS XXVII)

Given a presentation on the chemical applications of *N*-tosylhydrazone in the 27th International Conference of International Academy of Physical Sciences (CONIAPS XXVII) and awarded a certificate for the same

Certificate Of Merit – 24th National Children's Science Congress (NCSC-2016)

Went towards the National Level in Research and Development presentation for the topic of “bio lubricants”, organized by the National Children's Science Congress.