

Curriculum Vitae:

JASWANT KUMAR

+91-7006364463

jaswant2704@gmail.com

PERSONAL INFO

ADDRESS: CSIR-IIIM, Jammu, 180001

DATE OF BIRTH: 27-04-1994

MARITAL STATUS: Unmarried

NATIONALITY: Indian

EDUCATION

- **Ph.D.** with thesis entitled "*Development of New Methods for Construction of Carbon-Heteroatom bonds via Photoredox Catalysis*" from CSIR-Indian Institute of Integrative Medicine, Jammu, India the under supervision of **Dr. Bhahwal Ali Shah**.
- **M.Sc.** (Chemistry) in **2016**, University of Jammu, Baba Saheb Ambedkar Road, Jammu and Kashmir, India.
- **B.Sc.** in **2014**, University of Jammu, Jammu and Kashmir, India.

RESEARCH INTERESTS

- Photoredox Catalysis
- Electro-organocatalytic asymmetric synthesis
- Oxidative coupling reactions
- Radical based functionalization of alkynes

OBJECTIVE

To be a part of global interdisciplinary program of synthetic/medicinal chemistry and to eternize the development of the institution/industry associated, by contributing effectively through my technical and scientific skills attained from my education to the field of research.

AWARDS AND FELLOWSHIPS

- Senior Research Fellowship-2019-2022 awarded Council of Scientific and Industrial Research, New Delhi, India.
- Prestigious Junior Research Fellowship-2017-2019 awarded Council of Scientific and Industrial Research, New Delhi, India.
- Qualified Joint CSIR-UGC Test for Junior Research Fellowship And Eligibility of Lectureship (NET)-in December 2016.
- Qualified Joint CSIR-UGC Test for Junior Research Fellowship And Eligibility of Lectureship (NET)-in June 2016.
- Qualified Graduate Aptitude Test in Engineering (GATE) conducted by Indian Institute of Technology Madras, India, 2019.

SKILLS

- Possess good communication, presentation and management skills.
- Active supervision, Problem-solving attitude with several formats for the root cause analysis, time management and several other techniques to bring a behavioral and cultural change within the organization.
- Actively involved in administrative work in support of research objectives; develop and monitor project

budget.

- A passion about the research with a great learning attitude. Excellent ability to reach to the target, knowledge grasping ability and to implement appropriate methods and techniques.
- Knowledge of utilizing all the modern aids appropriately and effectively.
- Total synthesis of biologically potent molecules
- Structure elucidation by analyzing spectral data ^1H NMR, ^{13}C NMR, COSY, NOESY, HMBS, HSQC, IR, LC-MS, etc.
- Capable of identifying experimental problems and resolve them independently.
- Good in operating computer software such as Chemdraw, Mestrenova etc.
- Having experience on handling of dry reactions and multi step synthesis at miligram and multi gram scales.
- Command on structure elucidation and proposing mechanisms.
- Expertize in patent writing, paper compiling and making of response letters.

PUBLICATIONS

- Photoredox-Mediated Synthesis of Functionalized Sulfoxides from Terminal Alkynes. **J. Kumar**, A. Ahmad, M. A. Rizvi, M. A. Ganie, C. Khujaria and B. A. Shah, *Org. Lett.* 2020, *14*, 5661.
 - Visible-Light mediated synthesis of α -alkoxy/hydroxy diarylacetaldehydes from terminal alkynes. **J. Kumar**, A. Ahmed, S. Kumar, S. Raheem, M. A. Rizvi and B. A. Shah, *New J. Chem.*, 2022, *46*, 10967-10973.
 - Acyl Radicals from Terminal Alkynes: Photoredox-Catalyzed Acylation of Heteroarenes. S. Sultan, M. A. Rizvi, **J. Kumar** and B. A. Shah, *Chem. Eur. J.*, 2018, *24*, 10617 – 10620.
 - Photoredox-Mediated Synthesis of β -Hydroxydithioacetals from Terminal Alkynes. F. M. Manhas, **J. Kumar**, S. Raheem, P. Thakur, M. A. Rizvi and B. A. Shah, *ChemPhotoChem*, 2021, *5*, 235.
 - Visible-Light-Mediated Synthesis of α -Halomethyl Ketones from Terminal Alkynes. I. H. Shah, S. Kumar, **J. Kumar**, S. Raheem, M. A. Rizvi and B. A. Shah, *ChemPhotoChem* 2021, *5*, 1–6.
 - A photosensitized metal free approach to α -ketoamides: sequential oxidative amidationdiketonization of terminal alkynes. F. M. Manhas, S. Raheem, **J. Kumar**, P. Thakur and M. A. Rizvi, *ChemistrySelect*, 2021, *29*, 7499-7504.
 - Photocatalytic functionalizations of alkynes. N. Chalotra, **J. Kumar**, T. Naqvic and B. A. Shah, *Chem. Commun.*, 2021, *57*, 11285.
-

