

## Dr. TARUN KUMAR

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### Education:

Degree	Institution	Year
M.Sc.	Department of Chemistry, University of Rajasthan, Jaipur, India.	2010
Ph.D.	Indian Institute of Technology Bombay, Mumbai, India (with Prof. I. N. N. Namboothiri)	2010-2016
Postdoctoral	CNRS-ICMR, Universite de Reims, Reims, France (with Dr. Florian Jaroschik and Dr. Marc Taillefer)	2016-2018

### Employment:

Position	Institution	Year
Assistant Professor	Mohanlal Sukhadia University, Udaipur, Rajasthan	2018- present

### Research Interest

Development of new synthetic methodologies and their applications in the synthesis of natural and non-natural bioactive compounds. Designing of new catalytic systems for diversified organic transformations, coupling reactions and organometallic chemistry.

### Selected publications

1. Generation of  $\epsilon,\epsilon$ -difluorinated metal-pentadienyl species through lanthanide mediated C-F activation

**Tarun Kumar**, Fabien Massicot, Dominique Harakat, Sylviane Chevreux, Agathe Martinez, Klaudia Bordolinska, Preethanuj Preethalayam, Radhakrishnan Kokkuvayil Vasu, Jean-Bernard Behr, Jean-Luc Vasse, and Florian Jaroschik *Chem. Eur. J.* **2017**, 23, 16460.

2. Synthesis of Aminophenanthrenes and Benzoquinolines via Hauser–Kraus Annulation of Sulfonyl Phthalide with Rauhut–Currier Adducts of Nitroalkenes

**Tarun Kumar**, Vaijinath Mane and I. N. N. Namboothiri *Org. Lett.* **2017**, *19*, 4283.

3. Hauser-Kraus Annulation of Phthalides with Nitroalkenes for the Synthesis of Fused and Spiro-heterocycles

**Tarun Kumar**, N. S. Satam and I. N. N. Namboothiri *Eur. J. Org. Chem.* **2016**, 3316. (Commentary by Victor Snieckus and M. A. Jalil Miah, *Synfacts* **2016**, *12*, 1026.)

4. Synthesis of imidazoles via cascade reaction of nitroallylic acetates with amidines and studies on their trypanocidal activity

**Tarun Kumar**, Deepti Verma, Rubem F. S. Menna-Barreto, Wagner O. Valença, Eufrânio N. da Silva Júnior and Irishi N. N. Namboothiri *Org. Biomol. Chem.* **2015**, *13*, 1996.

5. Regiospecific synthesis of arenofurans via cascade reactions of arenols with Morita-Baylis-Hillman acetates of nitroalkenes and total synthesis of isoparvifuran

**Tarun Kumar**, S. M. Mobin and I. N. N. Namboothiri *Tetrahedron* **2013**, *69*, 4964.

## Selected Conferences

1. Oral presentation in International Conference on Nascent Developments in Chemical Sciences (NDCS-2015) in **BITS Pilani**, Rajasthan, India. **Tarun Kumar** and I. N. N. Namboothiri.
2. Oral presentation in X NOST for Research Scholars (JNOST-2014) in **IIT Madras**, India. **Tarun Kumar** and I. N. N. Namboothiri.
3. Oral presentation in 26<sup>th</sup> Research Scholars' Meet-2014 (RSM-2014) in **Mumbai**, India. **Tarun Kumar** and I. N. N. Namboothiri.
4. Presented poster in 1<sup>st</sup> Alpine Winter Conference on Medicinal and Synthetic Chemistry 2018, St. Anton am Arlberg, **Austria**. **Tarun Kumar** and Florian Jaroschik.
5. Presented poster in 15<sup>th</sup> Tetrahedron Symposium 2014, Millennium Gloucester, Kensington, **London, UK**. **Tarun Kumar**, Deepti Verma and I. N. N. Namboothiri.