

# RESUME

## Office address

Dept. of Chemistry  
NIT Jamshedpur  
Jharkhand-831014

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## Residential address

Ratanpur  
Vishnupur-Chaturbhuj  
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## ACADEMIC/RESERACH APPOINTMENTS

**Assistant Professor**, Department of Chemistry, **BIT Mesra Ranchi**, Jan 2018 – June 2018.

**Assistant Professor**, Department of Chemistry, **NIT Jamshedpur**, Aug 2016 –2017.

**Research Associate**, **IISc Bangalore**, Jan 2016– July 2016.

## TEACHING AND MENTORING EXPERIENCES

### *PG Teaching*

- Advanced Organic Chemistry, BIT Mesra
- Chemistry of Natural Products, NIT Jamshedpur
- Organic Chemistry Laboratory Course, NIT Jamshedpur
- Electrochemistry, NIT Jamshedpur
- Teaching Assistant, Integrated-Ph.D. Lab, IISc Bangalore

### *UG Teaching*

- Engineering Chemistry, Theory Course, NIT Jamshedpur
- Engineering Chemistry, Laboratory Course, NIT Jamshedpur
- Engineering Chemistry, Laboratory Course, BIT Mesra
- Inorganic Chemistry Laboratory Course, BIT Mesra
- Teaching Assistant, UG Lab Course, IISc Bangalore

### *Mentoring*

- Research Based **M.Sc. Project**, (**Thesis Submitted, 2 Students, 12 Credits**), 2016 –17

## EDUCATION AND RESEARCH

**Ph.D.**, Department of Organic Chemistry, **IISc Bangalore**

**2009 – 2016**

*GPA*: 6.3/8 (1<sup>st</sup> Division)

**Thesis title**: Synthesis and Studies of Dendritic Poly(Ether Imine) Boronates and Cholesteryl-Functionalized Mesogens.

**Thesis Advisor**: Professor N. Jayaraman

**M.Sc.**, Department of Chemistry, **IIT Delhi**

**2007 – 2009**

**CGPA**: 7.4/10 (1<sup>st</sup> Division)

Dissertation Title: Bile Acid Based 1,3-Dipolar Cycloaddition Reaction

Dissertation *Advisor*: Professor P. S. Pandey

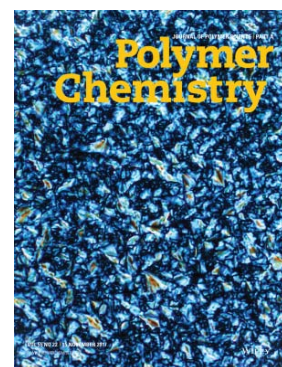
**B.Sc.** Chemistry (Honors), **BHU Varanasi**, India

**2004 – 2007**

**Aggregate**: 77.9% (1<sup>st</sup> Division); with Physics and Mathematics

## PUBLICATIONS

1. In-plane modulated smectic  $\tilde{A}$  vs smectic A lamellar structures in homologous pairs of dendritic liquid crystals. **Kumar, P.**; Rao, D. S. S.; Prasad, S. K.; Jayaraman, N. *Polymer*, **2016**, 86, 98-104, **IF:** 3.74, **ISSN:** 0032-3861, **Accepted:** Jan 19, 2016, **Online:** Jan 21 2016.
2. Dendritic iminodiacetic acids and their boronates in Suzuki-Miyaura cross-coupling reactions. Sharma, A.; **Kumar, P.**; Pal, R.; Jayaraman, N. *J. Organomet. Chem.* **2016**, 819, 138-146, **IF:** 2.18, **ISSN:** 0022-328X, **Accepted:** June 24, 2016, **Online:** June 25, 2016.
3. Connector type-controlled mesophase structures in poly(propyl ether imine) dendritic liquid crystals of identical dendrimer generations. **Kumar, P.**; Rao, D. S. S.; Prasad, S. K.; Jayaraman, N. *J Polym. Sci. Part A: Polymer Chem.* **2017**, 55, 3665-3678, **IF:** 2.95, **ISSN:**1099-0518, **Accepted:** June 21, 2017, **Online:** July 27, 2017, **Cover Page**.
4. Synthesis and studies of hybrid-dendritic iminodiacetic acid boronates in Suzuki-Miyaura cross-coupling reactions. **Kumar, P.**; Jayaraman, N. *Manuscript submitted*.
5. Effect of shape and flexibility of linkers on cholesterol derived amphiphilic liquid crystals. **Kumar, P.**; Sindhu, P.; Taneja, B.; Rao, D. S. S.; Prasad, S. K. *Manuscript in preparation*.



## FELLOWSHIP

- Senior Research Fellowship (SRF), **IISc Bangalore**, India, *August 2014 – July 2015*.
- Senior Research Fellowship (SRF), **CSIR New Delhi**, India, *August 2011 – July 2014*.
- Junior Research Fellowship (JRF), **CSIR New Delhi**, India, *August 2009 – July 2011*.

## FACULTY DEVELOPMENT PROGRAM

**Faculty Development Program**, Teaching Learning Centre, IIT Madras, Jan 31-Feb 04, 2018

## OTHER ACHIEVEMENTS

- **CSIR JRF-NET**, 3 times, **June & Dec 2008** and **June 2010**.
- **GATE**, 2 times, Chemical Science  
Conducted by **IIT Roorkee**, 2009; **99.16** Percentile, **AIR: 54**.  
Conducted by **IISc Bangalore**, 2008; **91.67** Percentile, **AIR: 525**.
- **JAM-2007**, Chemistry, Conducted by IIT Guwahati (**IITG**), **AIR: 120**.
- **JAM-2006**, Chemistry, Conducted by IIT Delhi (**IITD**), **AIR: 190**.
- **UET-2004**, Mathematical Science, Conducted by **BHU Varanasi**, India.