



# Miranda House

## UNIVERSITY OF DELHI

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**Name:** Dr. Anshika Lumb

**Department:** Chemistry

**Current Designation:** Assistant Professor

**Email id:**

**Academic Qualifications:**

Ph.D 2013 in Organic Chemistry from University of Delhi

M.Sc. 2008 in Organic Chemistry from University of Delhi

B.Sc. 2006 in Chemistry from Miranda House, University of Delhi

**Research Degree(s):**

Ph.D 2013 in Organic Chemistry from University of Delhi

**Field of Specialization under the Subject/Discipline:** Organic Chemistry

**Total Teaching Experience:** 10 Years

**Teaching at Miranda House since:** 2012

**List of Publications**

1. NaBrO<sub>3</sub>/bmim[HSO<sub>4</sub>]: a versatile system for the selective oxidation of 1,2-diols,  $\alpha$ -hydroxyketones, and alcohols., JM Khurana, **A Lumb**, A Chaudhary, *Monatshefte für Chemie-Chemical* 148 , 381-386 (2017).
2. “The highly selective metal-free oxidation of sulfides, tellurides and phosphines using sodium bromate in the presence of recyclable ionic liquid [bmim] HSO<sub>4</sub>, at 80° C” M Rajeswari, **A Lumb**, JM Khurana, *Journal of Chemical Research* 40, 442-444 (2016).
3. “Synthesis and characterization of hybrid chloroquinoline–xanthene derivatives” Bhaskar Nand, Ankita Chaudhary, **Anshika Lumb**, J.M.Khurana, *Cogent Chemistry* 1, 1071227, (2015).
4. “1, 8-Diazabicyclo [5.4.0] undec-7-ene (DBU): A Versatile Reagent in Organic Synthesis” Bhaskar Nand, Ankita Chaudhary, **Anshika Lumb**, J.M.Khurana, *Current Organic Chemistry* 19, 790 (2015).
5. A simple, mild and environmentally benign procedure for the cleavage of carbon–nitrogen double



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- bonds using  $\text{NaBrO}_3$  in the presence of  $[\text{bmim}]\text{HSO}_4$ , **A Lumb**, M Rajeswari, JM Khurana, *RSC Advances*, **4**, 47677 (2014).
6. "Acid catalyzed efficient syntheses of aryl-5*H*-dibenzo[*b,i*]xanthene-5,7,12,14-(13*H*)-tetraones, 3,3-(arylmethylene)bis(2-hydroxy naphthalene-1,4-diones) and *in vitro* evaluation of their antioxidant activity" Jitender M. Khurana,\* **Anshika Lumb**, Ankita Chaudhary and Bhaskara Nand, *J. Heterocycl. Chem.* **51**, 1747 (2014).
  7. "Synthesis and *in vitro* evaluation of antioxidant activity of diverse naphthopyrano pyrimidines, diazaanthra[2,3-*d*][1,3]dioxole-7,9-dione and tetrahydrobenzo[*a*] xanthen-11-ones" Jitender M. Khurana,\* **Anshika Lumb**, Ankita Chaudhary and Bhaskara Nand, *RSC Advances*, **3**, 844 (2013).
  8. "Efficient one-pot syntheses of dibenzo[*a,i*]xanthene-diones and evaluation of their antioxidant activities." Jitender M. Khurana,\* Ankita Chaudhary, **Anshika Lumb** and Bhaskara Nand *Canadian Journal of Chemistry*, **90**, 739 (2012).
  9. "Aqua mediated indium(III) chloride catalyzed synthesis of fused pyrimidines and pyrazoles" Jitender M. Khurana,\* Ankita Chaudhary, Bhaskara Nand and **Anshika Lumb**, *Tetrahedron Lett.*, **53**, 3018 (2012).
  10. "Facile deoxygenation of telluroxides, tellurones and selenones with Nickel Boride at ambient temperature" Jitender M. Khurana\* and **Anshika Lumb**, *Org. Prep. Proced. Int.*, **44**, 1 (2012).
  11. "Efficient and green syntheses of 12-aryl-2,3,4,12-tetrahydrobenzo[*b*]xanthene-1,6,11-triones in water and task specific ionic liquid" Jitender M. Khurana,\* **Anshika Lumb**, Ankita Chaudhary and Bhaskara Nand, *Synth. Commun.*, **43**, 2147 (2012).
  12. "Green approaches for the synthesis of 12-aryl-8,9,10,12-tetrahydrobenzo[*a*] xanthen-11-ones in aqueous media and under microwave irradiation in solvent less conditions" Jitender M. Khurana\*, **Anshika Lumb**, Archana Pandey and Devanshi Magoo, *Synth. Commun.*, **42**, 1796 (2012).

## Membership Of Professional Bodies

Member of Vigyan Bharti, India since 2017.

## Administrative Responsibilities (reverse chronological order):

Member of NSS, Women Development Society and Cafeteria Committee.

## Invited talks/Session chair/Resource person (reverse chronological order):

Acted as a Resource Person for the Bridge course on Laboratory Safety and handling of Equipment conducted by Department of chemistry, Miranda House in the year 2016, 2019,2021.



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### **Seminars/Workshops/Conferences attended**

- Dr. Anshika Lumb delivered an oral presentation in the National Conference on Nanoscience-opportunities and challenges at Maitreyi College on 19<sup>th</sup> – 20 February 2016.
- Dr. Anshika Lumb delivered an oral presentation in International Conference on "Green Chemistry in Environmental Sustainability & Chemical Education" at Daulat Ram College on 17<sup>th</sup> -18<sup>th</sup> November 2016.
- Dr. Anshika Lumb Presented a poster in RSC workshop on Chemistry for Tomorrow world held in New Delhi on 2-3<sup>rd</sup> December 2015.