



Dr. Sushila Singh

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Academic record

M.Sc. Organic Chemistry, Kurukshetra University, Kurukshetra.

Ph.D. Chemistry, Guru Jambheshwar University, Hisar.

Ph. D. Thesis (2002)

“Synthesis of cellulose Derivatives and their thermal degradation studies”

Field of Specialization

Flame Retardancy on Natural Fibers

Salient features of achievements

1. Published five research paper in national and international journal of repute.
2. Attended three conference papers.
3. Helped in coordinating quality work on flame retardancy on cotton fibres

Teaching

Actively involved in Teaching of under and post graduate courses of Chemistry in Chemistry & Physics Department, Engineering College and Agriculture College.

IMPORTANT PUBLICATIONS

A. Research Papers in Journals

1. **Rana S.,** Dahiya J.B. and Kumar K. (2008). Effect of Metal ions on Flame Retardation of Phosphorylated Cotton Cellulose. *Asian. J. Chem.*, 20(2), 1481-1490.
2. **Rana S.,** Dahiya J.B. and Malhotra D. (2007). Studies on Thermal Degradation of Cellulose benzylphosphonate and its Metal Complexes. *Indian. J. Chem., Technol.*, 14, 79-84.
3. **Rana S.** and Dahiya J.B. (2005): Thermal behaviour and spectral studies on cotton modified with phosphorus, sulphur and metals. *Indian J. Chem., Sec., A*, 44A, 2024-2029.
4. **Sushila** and Dahiya J.B. (2004): Thermal Degradation and Morphological Studies on Cotton Modified with various Arylphosphorodichlorodites. *Polym. Int.*, 53, 995-1002.
5. **Sushila** and Dahiya J.B. (2002). Thermal Studies on Cellulose cyclohexenephosphonate in Air. *Indian J. Fibre and Text. Res.*, 27, 189-193.

B. Conference papers

6. **Rana S.,** Dahiya J.B., Malhotra D. and Kumar K. (2005): Investigation of thermal degradation of phosphorylated cotton cellulose and its metal complexes. Proceeding of Int. Conf. on Emerging Trends in Polymers & Textiles at IIT New Delhi, 7-8 Jan. 2005, p 66-71.
7. **Rana S.;** Dahiya J.B. and Kumar K. (2005): Modification of cotton cellulose with phosphorus, sulphur, metals and their thermal and spectral studies. Proceedings of National Conf. on Recent Trends in Surface Chemistry at GJU Hisar, 13-14 March 2005, p 49.
8. **Sushila** and Dahiya, J.B. (2002): Flame retardancy of polymeric materials- general approaches and strategies. Proceeding of NSFCMP' 02 at GJU Hisar, (2002) p 39.