

# Curriculum Vitae

## Contact Information

**Name:** Ms Satinder Malhotra

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## Personal Information

Date of Birth: 27-07-1968

Place of Birth: Dehra Dun

Citizenship: Indian

Gender: Female

Marital Status: Unmarried

## Work Experience

Working in St. Thomas College, Dehra Dun, as Head of Chemistry Department and Senior Science co-ordinator since 2001 till date.

Worked as supervisor for ISC board examinations from 1996-1998, 2013-2016.

Worked in Convent of Jesus and Mary, Dehra Dun, as Head of Chemistry Department from 1998-2001.

Worked in Hai Ka Shain College, Dehra Dun, as Head of Chemistry Department and Senior supervisor from 1993-1998.

## Personal skills

- Creative and passionate about teaching chemistry.
- Solid idea generator and conceptual thinker.
- Ability to take complex data and present it in an easy-to-understand manner.
- Excellent communication skills.
- Ability to consistently meet deadlines.
- Good interpersonal relationship with students, colleges and parents.

## **Academic Qualifications**

High School: Done from Convent of Jesus and Mary, Dehra Dun

Graduation: Bachelor of Science ( B.Sc) in Chemistry, Zoology and Botany done from D.B.S. College, Dehra Dun

Post Graduation: Master of Science ( M.Sc) in Organic Chemistry done from D.B.S. College, Dehra Dun

## **Professional Qualification**

Done Bachelor of Education (B.Ed).

Doctorate of Philosophy: Pursuing Ph.D. from ICFAI University, D. Dun.

Awards

National award as the best teacher guide for National Science Congress

**Books Published:** I have written the following books in Chemistry for various boards from classes 6th to 12th.

- ISC chemistry self tutor Sultan Chand and sons
- ICSE chemistry self tutor Sultan Chand and sons
- CBSE chemistry self tutor Sultan Chand and sons
- ICSE living science chemistry Ratna Sagar Pvt. Ltd. for classes 6,7,8
- ICSE living science chemistry work book Ratna Sagar Pvt. Ltd. for classes 6,7,8
- New Era chemistry for classes 9th and 10th CBSE G.R. Bathla Pub Pvt. Ltd.
- New Era science practical for classes 9th and 10th CBSE G. R. Bathla Pub Pvt. Ltd.
- NCERT solutions Science for classes 9th and 10th G.R. Bathla Pub Pvt. Ltd.
- New Era chemistry for classes 9th and 10th ICSE G.R. Bathla Pub Pvt. Ltd.
- New Era science practical for classes 9th and 10th ICSE G.R. Bathla Pub Pvt. Ltd.

Worked as a Reviewer

I worked as a reviewer for the Asian Journal of Geographical Research and Journal of Optoelectronics and Advanced Materials (JOAM).

## List of Publications

I have in total 17 refereed publications to my credit, which include 1 book chapter, 8 refereed articles in national/international journals, and 8 refereed publications in national/international conference proceedings. A list of these publications is provided below:

### Published Referred National/International Journal Articles during Ph.D

- 1.S.P.K. Malhotra and T.K. Mandal, (2018). Phytochemical screening and in vitro antibacterial activity of *Moringa oleifera* (Lam.) leaf extract, *Archives of Agriculture and Environmental Science*, 3(4), pp 367-372.
2. S.P. K. Malhotra and T. K. Mandal, (2018). Solution phase synthesis of three dimensional ZnO hierarchical nanostructures, *Journal of Mountain Research*, 13, pp 29-37.
3. S. P. K. Malhotra and T. K. Mandal, (2018). An overview on Antimicrobial Activity of Aloe vera Against Pathogenic Bacteria and Fungi. *ENVIS Bulletin- Himalayan Ecology*, 26 pp. 85-89.
4. S. P. K. Malhotra and T. K. Mandal, (2018). Phytochemical screening and antibacterial activity of aloe barbadensis miller leaf extract. *International Journal of Science and Nature* ISSN-0973-3140 pp 53-59.
5. T. K. Mandal, S. P. K. Malhotra, and R. K. Singha, (2018). Photocatalytic degradation of methylene blue in presence of ZnO nanopowders synthesized through a green synthesis method. *Revista Romana de Materiale* 48, pp 32-38.
6. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal, (2017). Enhanced photocatalytic activity of Ag-ZnO hybrid plasmonic nanostructures, *Journal of Mountain Research*, 12, pp 67-72.
7. Ms. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal, (2017). A review of Therapeutic Effects of Curcumin's based on its Anti-inflammatory Properties and Anticancer Activities. *ENVIS Bulletin Himalayan Ecology*, ISSN: 0971-7447, Vol 25.
8. Satinder Pal Kaur Malhotra and T. K. Mandal, (2016) Biomedical Applications of Zinc Oxide Nanomaterials in Cancer Treatment: A review, *SCIREA Journal of Chemistry*, 1(2) pp. 67-89.

### **Referred Book Chapter**

Satinder Pal Kaur Malhotra\* and T.K. Mandal Zinc oxide nanostructure and its application as agricultural and industrial material, in Contaminants in Agriculture and Environment: Health Risks and Remediation, DOI: 10.26832/AESA-2019-CAE-0171-016.

### **Refereed National/International Conference Publications**

1. Ms. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal. Anti-bacterial Activity of Zinc Oxide Nanostructures. International Conference on Emerging Trends in Engineering Science and Technology (ICETEST, February 16-17, 2018).
2. Ms. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal Green synthesis of zinc oxide nanoparticles using Moringa oleifera leaf extract- A promising anticancer agent.12th Uttarakhand State Science and Technology Congress (UCOST), March 07-08, 2018.
- 3.Ms. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal. A Hybrid Nano-Energy Harvester-An integrated mechanical and solar energy harvesting device. National seminar on “The Role of Green Energy in Sustainable Future”.UPES, November 10, 2017.
- 4.Ms. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal. ZnO and CuO nanoparticles for the improvement of agriculture. 3rd National Conference on Recent Advances in Sciences and Technology. NCRASST, November 11-12, 2017.
- 5.Ms. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal. Cytotoxicity of ZnO-Fe<sub>3</sub>O<sub>4</sub> magnetic composite nanoparticles. 2nd Himachal Pradesh Science Congress, November 07-09, 2017.
- 6.Ms. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal. Zinc oxide nanoparticles as Novel Anticancer Agent. National Conference on Natural Resources Management Avenues and Application. Uttara Bio Fest, March 18-19, 2016.
7. Ms. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal. Cytotoxic effect of Zinc oxide nanoparticles in cancer.11th Uttarakhand State Science and Technology Congress(UCOST), March 02-04, 2017.
8. Ms. Satinder Pal Kaur Malhotra and Dr. T. K. Mandal. Nanotechnology in the treatment of cancer. 10th Uttarakhand State Science and Technology Congress (UCOST). February 10-12, 2016.

