

# CURRICULUM VITAE

## **Dr. Saloni Sood**

*Assistant Professor*  
*Department of Chemistry*  
*Dr. Y. S. Parmar Govt. P. G. College, nahan*  
*E-mail: [salonisood85@gmail.com](mailto:salonisood85@gmail.com)*  
*Contact No.: Ph. No.- +91-9459484490*



### ACADEMIC QUALIFICATION

- PhD (2017) in the faculty of Physical Sciences from Department of Chemistry H.P. University Shimla  
*Topic of research: Synthesis, Characterization And Potential Applications Of Co/Fe Doped and Co-Doped ZnO Nanoparticles*
- M. Phil. (2011) in the faculty of Physical Sciences from Department of Chemistry H.P. University Shimla  
*Topic of research: Solventless synthesis and characterization of nanocrystalline  $Zn_{0.95}Co_{0.05-x}Fe_xO$  powders*
- M. Sc. Chemistry (2008) Department of Chemistry, MCM DAV College Jalandhar, GNDU Amritsar
- B. Ed.(2006 ) from Department of Education, H.P. University (campus) Shimla
- Graduation (Life Sciences) from MCM D.A.V. College Kangra (H.P.U. Shimla)

### AWARDS and ACHIEVEMENTS

- Awarded with prestigious UGC Basic Scientific Research (BSR) Fellowship (JRF and SRF)
- SET (2016)
- 2<sup>nd</sup> position in order of merit in GNDU Amritsar in M.Sc.II (Chemistry)
- Got 10<sup>th</sup> position in order of merit in H.P.U. in B.Sc.III (2005)
- Got National Scholarship and Merit Certificate in 10<sup>th</sup>

### EXTRA CURRICULAR ACTIVITIES

- Worked as 'National Service Volunteer' in the Directorate of Education, Shimla.
- N.S.S. certificate and 1<sup>st</sup> Aid Certificate

### COMPUTER PROFICIENCY

A good knowledge of basic computer: MS Word, Excel, Power Point etc.

### TEACHING EXPERIENCE

- Total teaching experience: more than 14 years (UG and PG Classes)

### RESEARCH INTEREST:

- Nanotechnology
- Synthetic Inorganic Chemistry
- Material Science

### Publications in Journals/ Conference Proceedings/ Book Chapter

- **Saloni Sood** and Neeraj Sharma, Antibacterial activity and cytotoxicity of Co/Fe doped ZnO nanoparticles, Adv. Sci. Eng. Med. 2016, doi:10.1166/asem.2016.1880.
- **Saloni Sood**, Arun Kumar and Prof. Neeraj Sharma, Photocatalytic and antibacterial activity studies of ZnO nanoparticles synthesized by thermal decomposition of mechanochemically processed oxalate precursor, Chem. Selec. 2016 DOI: 10.1002/slct.201601435 .
- **Saloni Sood** and Neeraj Sharma, Synthesis, morphology and antibacterial activity of mechanochemically processed (Co, Fe) co-doped ZnO nanocrystalline powders, HPU J 2015, 3, 1-10.
- **Saloni Sood** and Neeraj Sharma, Structural, optical, magnetic and biological properties of Co/Fe doped ZnO nanoparticles synthesized by co-precipitation method, Phys. Chem. Chem. Phys. (under review).
- **Saloni Sood** and Neeraj Sharma, Antimicrobial activity and cytotoxicity of (Co, Fe) co-doped ZnO nanoparticles synthesized by co-precipitation method, Int. J. Antimicrob. Agent. (Communicated).
- **Saloni Sood** and Neeraj Sharma, Structural studies of (Co, Fe) co-doped ZnO nanocrystalline powders prepared from thermal decomposition of mechanochemically processed oxalate precursors: A green chemistry approach, Chem. Selec. (communicated)
- Published a chapter titled “Towards Sustainable Development: A case study of a village in Solan District of Himachal Pradesh” as co-author in book “Environmental Issues: Biodiversity and Sustainability” (2022) (ISBN = 978-93-93810-06-9).
- Published a chapter titled “ Characterization and Antibacterial Activity of Mechanochemically Synthesized ZnO Nanoparticles” in book titled “Multidisciplinary Approach to Ecology” (2023) (ISBN: 978-93-93810-84-7)

### Research Paper Presented in Conferences/ Symposium/Workshops etc. (2023)

- Presented a paper on topic “Effects of ZnO Nanoparticles on Environment: Risks and Benefits” in one day interdisciplinary International Conference on “Ecology: Interpretation, Intersections and Interstices” on dated 28<sup>th</sup> March, 2023 organised by Arya Kanya Mahavidyalaya Shahabad Haryana.
- Presented an online oral presentation on topic “Green Synthesis of ZnO Nanoparticles: A Review” in an International Conference on Recent Trends in Science and Technology for Environment Conservation and Sustainable Development held on 29-30 September, 2023 organised by SIDHARTH GOVT. “UTKRISHT” COLLEGE NADAUN DISTRICT HAMIRPUR (HP).
- Presented an online oral presentation on topic “Solventless Synthesis and Characterization of Nanocrystalline Zn<sub>0.95</sub>Co<sub>0.05</sub>-xFexO Powders” in International Conference on Interactive Chemical Science for Health & Environment ICHE-2023 held from 6<sup>th</sup> – 8<sup>th</sup> October, 2023 organised by Deshbandhu College, University of Delhi, New Delhi.
- Presented an online oral presentation on topic “Synthesis and Characterization and Photocatalytic Activity of ZnO Nanoparticles” in National Conference on “Biodiversity Loss and Climate Change: Two Faces of the same coin” held on 3<sup>rd</sup> December, 2023 organised by Department of Bio-Sciences Rabindranath Tagore Govt. Degree College Sarkaghat, Distt. Mandi.