

DR. NEHA SHARMA

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DOB: 23rd March 1987

EDUCATIONAL QUALIFICATION

- Ph.D in Chemistry (2014) on the topic "Adsorption of Chemical Warfare Agents and their stimulants on metal oxides and mixed metal oxides nanoparticles: A DFT Study" under the supervision of Professor Rita Kakkar from the Department of Chemistry, University of Delhi.
- Qualified CSIR-JRF (NET) in December 2008.
- M. Sc. Chemistry (Physical Chemistry Specialization) in 2009 from University of Delhi with 67.8%.
- B. Sc. (G) Grp A (2007) from Gargi College, University of Delhi with 68.6%.
- XII (2004) from Mother Teresa Public School, Delhi (CBSE) with 74.6% aggregate.
- X (2002) from Mother Teresa Public School, Delhi (CBSE) with 81.2% aggregate.

WORK EXPERIENCE

- Assistant Professor (Permanent) in Gargi College, DU from 19th October 2015.
- Assistant Professor (Ad-hoc) in Gargi College, DU from January 2013 till 12th October 2015.
- Assistant Professor (Ad-hoc) in Gargi College, DU in August-September, 2012.
- Assistant Professor (Guest) in Miranda House, DU from September 2011 to March 2012.

SEMINARS AND WORKSHOPS ATTENDED

- Participated as a resource person at the workshop on Electronic structure, atomistic and statistical modelling in chemistry, materials and life sciences organized by Department of Chemistry, DU in October 2014.
- Participated in Virtual conference in computational chemistry (VCCC – August 2014) organized by Computational Chemistry Group, University of Mauritius and presented keynote E-presentation on Adsorption of sarin on MgO nanotubes: Role of doped and defect sites.
- Participated in workshop for training of Lab Attendants as a co-trainer and contributed a write up on Colorimetry in Lab Manual based on the aforesaid workshop, in Gargi College, DU in July 2013.
- Participated in workshop on Science and Life Foundation course conducted by CPDHE in June 2013.
- Participated and presented a poster on DFT study on decomposition of sarin on alkaline earth metals substituted mixed metal oxides nanoparticles at workshop on "Introduction to Gaussian: Theory and Practice" in December 2012 organized by Gaussian09 Workshop Team, SCUBE Scientific Software Solutions (P) Ltd.
- Participated and presented a poster on Theoretical investigation on decomposition of sarin on mixed metal oxide nanoparticles at International conference on nanomaterials

Gaussian09 Workshop Team, SCUBE Scientific Software Solutions (P) Ltd.

- Participated and presented a poster on Theoretical investigation on decomposition of sarin on mixed metal oxide nanoparticles at International conference on nanomaterials and nanotechnology (ICNANO 2011) organized by Advanced Materials Letters, VBRI Press and University of Delhi, India.
- Participated in the National Workshop on Role of Analytical Techniques in Industry organized by Kirori Mal College, University of Delhi in 2010.
- Participated in the workshop on Information Literacy & Competency organized by Delhi University Library System, University of Delhi in 2010.

PUBLICATIONS

- Bharti Badhani, Neha Sharma and Rita Kakkar, Gallic Acid: A versatile antioxidant with promising therapeutic and industrial applications, RSC Advances, 2015, 5, 27540-27557.
- Neha Sharma and Rita Kakkar, Adsorption of sarin on MgO nanotubes: Role of doped and defect sites, Journal of Computational Science, 2015, 10, 225-236.
- Neha Sharma and Rita Kakkar, Recent advancements on warfare agents/metal oxides surface chemistry and their simulation study, Advanced Materials Letters, 2013, 4, 508-521.

ADMINISTRATIVE EXPERIENCE AT GARGI COLLEGE

- Convener of Chemical Society 2015-16.
- Convener of Chemical Society 2014-15.
- Member of Computer Lab Committee 2014-15.
- Member of Antardhvani Science Committee in 2015.
- Member of Antardhvani Core Committee which was responsible for managing all work regarding putting up stall at DU Antardhvani Festival in 2014.
- Member of Website Committee in 2013-14.
- Assisted in Admissions in Chemistry Department in 2013 and 2014.
- Member of Prize Distribution Committee in 2013.
- Counselor for IGNOU practicals.
- **Worked in College NAAC Committee for Infrastructure.**

PROJECTS AT GARGI COLLEGE

- Mentor of Chemistry (H) students in 2014-15 for Pathfinder project on “Solvent systems: Exploring various facets from utility to benignity to procurability”. The project won first prize in the science pathfinder competition.
- Mentor of a History (H) Student in 2013-14 for Pathfinder project on “To compare Ultra-Violet radiation absorption efficiency of some commonly available sunscreens with the help of UV spectrophotometry technique and devise an affordable and non-toxic alternative”. The project won second prize in the science pathfinder competition.

COMPUTER SKILLS

- MS-Office
- Computer Languages – Qbasic, GW-Basic
- Computational Softwares -Hyperchem, Gaussian, Materials Studio, Argus Lab.

HOBBIES & INTERESTS

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- Yoga, Meditation, Reading and Social Work

(Neha Sharma)