

Dr. SUBIA AMBREEN
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Area of interest:

Synthetic Organic Chemistry, Medicinal Chemistry, Stereo-Selective Synthetic Organic Chemistry, Natural Products and their Medicinal Activity; Organometallics (Based on Transition Metals), Nanotechnology, Photocatalytic removal of Organic Pollutants.

Academic Credentials:

- **PhD** from **Motilal Nehru National Institute of Technology Allahabad**, Allahabad, India.
Title of the Thesis “**Synthesis, Characterization and Photocatalytic applications of Metal oxide nanomaterials derived from Alkoxy carboxylates of Titanium, Niobium and Tantalum**”
- **M.Sc.** (specialization in Organic Chemistry) from **University of Allahabad**, Allahabad, India.
- **B.Sc.** from **University of Allahabad**, Allahabad, India.

Awards:

- **UGC-MANF-JRF**
- **UGC-MANF-SRF**

TEQIP-II Funded Project:

Title: Synthesis and Characterization of Modified Metal Alkoxides based on Titanium, Tin, Niobium and Tantalum for corresponding metal oxide nanomaterials

Industrial Research Experience:

April 2007-July 2010	TCG life sciences: Chembiotek Research International Pvt. Ltd., Kolkata, WB, India.
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List of Publications:

- **Synthesis and structural characterization of some titanium butoxides modified with chloroacetic acids**
Subia Ambreen, K. Gupta, S. Singh, D.K. Gupta, S. Daniele, N.D. Pandey, A. Pandey
Transition metal chemistry, 2013, 38, 845–851; Springer (Impact factor **1.4**, SCI Journal).

- Characterization and photocatalytic study of tantalum oxide nanoparticles prepared by the hydrolysis of tantalum-oxoethoxide $Ta_8(\mu_3-O)_2(\mu-O)_8(\mu-OEt)_6(OEt)_{14}$**
Subia Ambreen, N. D. Pandey, P. Mayer, A. Pandey
Beilstein Journal of Nanotechnology, 2014, 5, 1082–1090; Beilstein Institute (Impact factor **3.1**, SCI Journal).
- Optimization and comparative evaluation of optical and photocatalytic properties of TiO_2 thin films prepared via sol-gel method**
M. Danish, Subia Ambreen, A. Chauhan, A. Pandey
Journal of Saudi Chemical Society, (2015) 19, 557–562; Elsevier Science BV (Impact factor **3.2**, SCI Journal).
- Investigation of the photocatalytic efficiency of tantalum alkoxy carboxylate-derived Ta_2O_5 nanoparticles in rhodamine B removal**
Subia Ambreen, M. Danish, N. D. Pandey, P. Mayer, A. Pandey
Beilstein Journal of Nanotechnology, 2017, 4, 604–613; Beilstein Institute (Impact factor **3.1**, SCI Journal).
- Comparative Study of Rhodamine B Degradation by TiO_2 Nanoparticles Synthesized from Titanium sec Butoxide and its Chloroacetato Derivatves**
Subia Ambreen, N.D. Pandey, A. Pandey
Cellular and Molecular BiologyTM (Impact factor **0.65**, SCI Journal).

Paper presented at Conferences and Seminars:

- Sol-gel synthesis of chloroform dispersible TiO_2 nanoparticles**
Subia Ambreen, M. Danish, M.K. Roy, N.D. Pandey, A. Pandey
International conference: Chemical Constellation Cheminar– 2012
Department of Chemistry, Dr. B.R. Ambedkar NIT, Jalandhar, 10-12 Sep 2012.
- Synthesis and Characterization of chloroform dispersible TiO_2 nanoparticles obtained from $Ti(O^sBu)_4$ and it's modified precursors**
Subia Ambreen, M.K. Roy, N.D. Pandey, A. Pandey
National seminar: Nanoscience and technology for mankind
NASI, BHU, 29 Nov- 01 Dec 2012.
- Effect of modification of Titanium alkoxides on the particle size of TiO_2 in solid as well as dispersion phase**
Subia Ambreen, N.D. Pandey, A. Pandey
International Conference on Interface between Chemistry & Environment (ICICE-2012)

Department of Chemistry, Ramjas College, University of Delhi, Delhi, 10-12 Dec 2012.

4. **A comparative study of sizes of TiO₂ nanoparticles as solids and in chloroform dispersions**
Subia Ambreen, M. Danish, N.D. Pandey, A. Pandey
International Conference on Health, Environment & Industrial Biotechnology (Biosangam 2013)
Department of Biotechnology, MNNIT, Allahabad, 21-23 Nov 2013.
5. **Effect of thickness on structural and optical properties of Nb₂O₅ thin films prepared via sol-gel**
Mohd. Danish, **Subia Ambreen**, Ashutosh Pandey
International Conference on Multifunctional materials, structure & Applications (ICMMSA-2014)
MNNIT, Allahabad, 22-24 Dec'14.
6. **Comparative study of Rhodamine B degradation by TiO₂ nanoparticles synthesized from Titanium sec butoxide and its chloroacetate derivatives**
Subia Ambreen, N.D. Pandey, A. Pandey
International Conference on Translational Biotechnology (Biosangam 2016)
Department of Biotechnology, MNNIT, Allahabad, 04-06 Feb 2016.

Workshops attended:

1. **Scientific Contributions of Acharya Jagadish Chandra Bose & Acharya Prafulla Chandra Ray**
Sponsored by TEQUIP-II MNNIT, Allahabad and NASI, India
23-24 Dec 2013.
2. **Administrative Responsibilities For The Implementation Of Societal Research Fellowship (SoRF)-DST, New Delhi**
Sponsored by NASI, India
21 Mar 2014.
3. **Intellectual Property Rights**
Sponsored by TEQUIP-II MNNIT, Allahabad, India
06-07 Feb 2014.