AUNENDERA KUMAR TIWARI

Assistant Professor- Chemistry

Ph.D. (CSVTU)
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ACADEMIC QUALIFICATION

- M. Sc. Chemistry- A. P. S. University Rewa (M.P.)- 2007
- M. Phil in chemical Sciences, A. P. S. University Rewa (M.P.)- 2008
- Doctor of Philosophy (Ph.D.)- Chhattisgarh Swami Vivekanand Technical university , Bhilai – 2018
- Chhattisgarh State eligibility Test **CGSET-2013**

Area of specialization- Organic Chemistry- Nanomaterial

TRAINING/ WORKSHOP

- ORIENTATION PROGRAM- 2019 (July25-14 Aug. 2019)
- REFRESHER COURSE- 02 (1- from SWAYAM 'ARPIT2020')

PUBLICTION AND PESENTATIONS

- PUBLICTION – 06
- PESENTATIONS-10

LIST OF PUBLICATIONS

1. Tiwari, **A.K.,** Jain, Tripti, A., Choubey, S., Bajpai, P. K. Aug. 2016. *Synthesis and characterization of Cadmium chalcogenide nanomaterial (CdE, E=Se/Te) from novel single source molecular precursor.* Current Nanoscience.

2. Bajpai, P.K., Yadav, S., Tiwari, A., and Virk, H.S. 2015. Recent Advances in the Synthesis and Characterization of Chalcogenide Nanoparticles. Solid State Phenomena. 222: 187-233:doi:10.4028/www.scientific.net/SSP.222.187.

3. Tiwari, **A.K.,** Jain, Tripti A., Choubey, S., Verma V. K., 2014. *Synthesis and characterization of CdTe nanomaterial using single source molecular precursor*. IJRMET: 4 (2): 17-19.

4. **Tiwari, A. K.,**Tripti. Jain, A., Verma, V. K., Choubey S. and Bajpai P. K. 2014. A *facile route for CdSe nanoparticles: synthesis and structural characterization. Nanomaterials and Energy*. 3 (5): 160-166.

5. **Tiwari, A. K.,** Jain, Tripti. A., Verma, V. K., Choubey S. and Bajpai, P. K. 2014. *Synthesis and characterization of HgTe nanorods via solvothermal route.* Archives of Applied Science Research 6 (2): 37-41.

6. **Tiwari, A.K.,** Verma, Vinay K., Jain, Tripti A. and Bajpai P. K., 2013. *Conclusive growth of CdTe nanorods by solvothermal decomposition using single source precursors.* Soft Nanoscience Letter. 3: 52-57.

LIST OF PRESENTATIONS

1. **A.K. Tiwari** "Use of single source molecular precursor to synthesis metalchalcogenide nanomaterial'' presented in 'international conference on material for environment ICME2020, VYTPG Jan. 24-25, 2020, Durg ,Chhattisgarh.

2. **A. K. Tiwari** 'Synthesis of ZnSe nanoparticles and its optical and Raman Spectral characterization, Presented in National conference on 'Research invention in Biotechnology for sustainable use RIBASU' 7 Sep. 2018, at Rungta college of Science and Technology, Durg, Chhattisgarh.

3. **A.K. Tiwari** 'Use of single source molecular precursor to synthesis metal chalcogenide nanoparticles' presented in national conference on "XX

national seminar of ferroelectronics and dielectrics", Dec. 14-16, 2018, Gurughasidas Vishwavidyalaya Bilaspur, Chhattisgarh.

4. **A. K. Tiwari** "Synthesis and characterization of Cadmium chalcogenide nanomaterial (CdE; Se/Te) from single source molecular precursor. Presented in National conference on Advance material science and engineering, 8-9 March , 2017. , Christian college of engineering and technology, Bhilai, C.G.

5. **A. K. Tiwari** and Alok k. Joshi 'Effect of nanomaterial on environment and Human health' presented in national confernce on Soil quality and public health Jan 17-18,2017 at Govt. Digivijay P. G. college Rajnandgaon C.G.

6. **A. K**. Tiwari, Tripti A. Jain, S. S. Thakur, P. K. Bajpai "Synthesis and structural charactierization of CdSe nanoparticles" Presented in International conference on ' *emerging challenges in Biotechnoloy, Human health & Environment'* Dec. 18-20, 2014 at Devi Ahilya Vishwavidyalaya, Indore (M.P.) pp.78.

7. **A. K. Tiwari**, S. Choubey, V.K. Verma, P. K. Bajpai "Synthesis and Characterization of Solvothermaly Prepared HgTe Nanoparticles" presented in National conference on '*Recent Trends in Chemical Sciences*" Jan. 23-25, 2014 at Pt. RSU, Raipur (C.G.) pp.13.

8 **A.K. Tiwari**, and Tripti A. Jain "Synthesis of CdSe nanomaterials and their photo catalytic activity for degradation of blue ink" presented in the National conference on 'Global Innovations in Chemical Science: Solving Real World Problems' April 12-13, 2013, At CSIT Durg (C.G.) ISBN: 978-81-923288-1-2. pp.6.2.

9. **A.K. Tiwari**, Vinay K. Verma , Tripti A. Jain; and P. K. Bajpai "Conclusive growth of CdTe nanorods by solvothermal decomposition using single source precursors" presented in International conference on '*Advances In Chemical Engineering', ICACE-2013*'Apr. 5-6, 2013 at NIT, Raipur (C.G.) pp.13.

10. **A. K. Tiwari** , V.K. Verma , Tripti A. Jain, P. K. Bajpai *"*Semiconducting CdSe nanomaterials: Synthesis and characterization*"* presented in National conference on *'Advanced Functional Material'* Jan. 21-23 ,2013, At Visvesvaraya National Institute of Technology ,Nagpur (M.S.) pp.25.

Computer skill- ChemDraw, Origin Pro

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