SHOBHIT DIXIT

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EDUCATIONAL QUALIFICATIONS

Year	Qualification	Institute /board	CPI/%
2020	Ph.D	Indian Institute of Technology (BHU), Varanasi	8.2/10
2014	M.Tech (Chemical Engineering)	Indian Institute of Technology, BHU, Varanasi	8.2/10
2011	B.Tech (Chemical Engineering)	UIET, CSJM University, Kanpur	8.05/10
2006	Class XII	Sri N. L. K. Inter College, Kanpur Nagar, Uttar Pradesh / U.P. Board	76 %
2004	Class X	Sri N. L. K. Inter College, Kanpur Nagar, Uttar Pradesh / U.P. Board	76 %

Publications in International Journals:

- **S. Dixit**, V.L. Yadav, Optimization of polyethylene/polypropylene/alkali modified wheat straw composites for packaging application using RSM, **Journal of Cleaner Production**, (2019) 118228.
- **S. Dixit**, V.L. Yadav, Comparative study of polystyrene/chemically modified wheat straw composite for green packaging application, **Polymer Bulletin**, (2019).
- **S. Dixit**, S. Asmer, V. Yadav, Synthesis of Polypropylene/Polyethylene based composite and its Application, **JSIR** (2019).
- **S. Dixit**, V. Yadav, Synthesis of Green Thermally Resistant Composite: A Review, **IJCT** (2019) Vol. 26, November 2019, pp. 494-503.
- **S. Dixit**, B. Joshi B, P. Kumar, V. L. Yadav Novel Hybrid Structural Biocomposites from Alkali Treated-Date Palm and Coir Fibers: Morphology, Thermal and Mechanical Properties. **Journal of Polymers and the Environment**(2020).
- **S.Dixit,** V. L. Yadav**,** Biodegradable Polymer Composite Films for Green Packaging Applications. In: Kharissova OV, Martínez LMT, Kharisov BI, editors. Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications. **Cham: Springer International Publishing**; 2020. p. 1-17.
- P. Kumar, **S. Dixit**, V.L. Yadav, Effect of hydrophilic bentonite nano particle on the performance of polyvinylchloride membrane, **Materials Research Express** (2019).
- P. Kumar, **S. Dixit, V.L. Yadav,** Preparation of hydrophilic bentonite grafted mixed matrix polyvinylchloride membrane with superior hydrophilicity, **Rasayan journal of chemistry** (2019).
- P. Kumar, A. K. Prajapati, **S. Dixit**, V. L. Yadav. Adsorption of fluoride from aqueous solution using biochar prepared from waste peanut hull. **Materials Research Express 6**,125553(2020).
- **S. Dixit, V.L. Yadav,** Optimization of green packaging film based on Alkali modified Hemp fiber/ Polyethylene / Polypropylene using Response Surface Methodology,1-20, **Polymer Bulletin** (2021).

Papers Presented at International Conferences:

- **S. dixit, V**. L. Yadav, Comparison of various chemical pretreatment techniques on wheat straw for reinforcement of a composite. (**Chemcon 2017**)
- **S. dixit, V**. L. Yadav, Synthesis of PE/PP/WS composite for green reinforcement applications (**BEHSD 2**018).

Other Research Activities:

- Participated in a workshop INSPIRE-2017 organized by IIT BHU, Varanasi.
- Participated in the continuing education program on Electron Microscopy and Microanalysis of Materials by IIT BHU, Varanasi.

- Participated in the 20th Symposium & Workshop on Thermal Analysis-2016 organized by IIT BHU, Varanasi.
- Participated in the national workshop on Mahamana's Vision for excellence in Higher Education: Relevance in Twenty-First Century organized by MCIIE, IIT BHU-2018.

Experience with high-end Instrumentation:

I have also widely used impact tester and universal testing machine during my research.

ACEDEMIC PROJECTS/ INTERNSHIPS/ TERM PAPERS:

- **M. Tech Thesis: (IIT-BHU, Varanasi, June 2014)**

  "Bioremediation of textile waste water ".
  - Using water hyacinth for simultaneously removal of chromium, copper, and cadmium from textile waste water in batch process using photosynthesis process. The effect of various parameters viz. Contact time, initial concentration, and pH in batch process on chromium, copper, and cadmium removal had been studied.

- **B. Tech Project: (UIET, CSJM University, Kanpur, Dec 2009 – May 2011)**

  "Designing of Distillation Column for Binary Component mixture.
  - Material balancing, calculation of no. of trays by McCabe Thiele method, tray to tray calculations and verification of no. of trays by Smoker's Equation, Calculations of Mechanical design parameters.

  "Designing of BENZENE PLANT of capacity 500 TPD by hydrodealkylation of Toluene.
  - Designing of Distillation column, Condenser and Reactor).

- **"Industrial training" (water jal sansthan): June , 2010)**
  - Overview of process units.
  - Detailed study of sedimentation, coagulation and flocculation.

Extra Curricular Activities:

- Chief organizer of cultural event SPANDAN-2010(UIET CSJM University).
- Working as a Volunteer in a workshop INSPIRE-2017 organized by IIT BHU, Varanasi.

COMPUTER LITERACY

Programming Languages: **C** Numerical Computing: **RSM**

Miscellaneous: **Origin**

Area of Interest

- Heat Transfer operations
- Chemical Reaction Engineering
- Instrumentation and Process control
- Mass Transfer Operations

DECLARATION

I hereby declare that all the information provided here is correct to the best of my knowledge and belief and I promise to abide by all the norms laid down by your esteemed organization.

PLACE: **Varanasi** (**Shobhit Dixit**)