


**Curriculum Vitae (CV)**

Personal Details						
Title	<b>Dr.</b>	First Name	<b>Deepak</b>	Last Name	<b>Kumar</b>	Photograph
Permanent Address	VILLAGE- MANSI BUJURG, POST- BABUGANJ, TEHSIL- PHOOLPUR, DISTIC- PRAYAGRAJ, UTTAR PRADESH, INDIA, PIN CODE- 212404					
Mobile No.	8896924920					
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Official Email id	<a href="mailto:dkumar@mnnit.ac.in">dkumar@mnnit.ac.in</a>					
Webpage:	<a href="https://scholar.google.com/citations?user=ZX9Bd-QAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=ZX9Bd-QAAAAJ&amp;hl=en</a>					
D.O.B	20 March 1997	Marital Status	Unmarried	Category	OBC	

- Title of the Thesis: “Syntheses and Characterizations of Metal Organic Frameworks and Nano-Materials for Photo-Catalytic Applications”.
- Currently, I am working as **Assistant Professor (Guest Faculty)** in **Chemistry Department, Harcourt Butler Technical University (HBTU) Kanpur.**

Educational Qualification			
Examination/ Degree	Institution	Year	%/CGPA
<b>Ph.D.</b> Chemistry	MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD, ALLAHABAD	2019-2024	8.5 CGPA
<b>M.Sc.</b> Chemistry	CHAUDHARY MAHADEO PRASAD (C. M. P.) DEGREE COLLEGE <b>UNIVERSITY OF ALLAHABAD</b>	2017-2019	87.21%
<b>B.Sc.</b> Chemistry, Physics and Mathematics	EWING CHRISTIAN COLLEGE (E. C. C.) <b>UNIVERSITY OF ALLAHABAD</b>	2014-2017	57.81%
(HSC) Higher Secondary School	B R YADAV I C BHULAI KAPURA ALLAHABAD <b>UP BOARD</b>	2011-2013	75.40%
(SSC) Secondary School	IJ SINGH S V KHOJAPUR PHOOLPUR ALLAHABAD <b>UP BOARD</b>	2011	66.17%

## Awards/Scholarships

- Qualified Graduate Aptitude Test in Engineering (GATE) held in **2019** with **GATE Score 350** and All India **Rank 3416** (Reg. No. CY19S15005063) and **2020** with **GATE Score 319** and All India **Rank 4579** (Reg. No. CY20S25003069).
- Qualified Joint “Council of Scientific and Industrial Research-University Grant Commission (**CSIR-UGC**)” Test held in **December, 2019** for National Eligibility for Lectureship (**NET**) in Chemical Sciences with All India **Rank 62** (Roll no.-UP0316201633).
- Received **Best Oral Presentation Award** entitled “**CuO@Zn-BDC COMPOSITE SYNTHESIZED AND USED AS A PHOTO-CATALYST FOR DEGRADATION OF METHYLENE BLUE (MB) DYE**” International Conference on Technologies and Innovations for Sustainable Development (TISD-2023) held on 27<sup>th</sup>-29<sup>th</sup> October 2023, Organized by: Central Library, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, U.P. India. 211004.

## Extra-curricular activities

- One dye workshop in chemistry
- ATAL Faculty Development Program (FDP) on “**Nanostructured Materials and Their Applications**” NIT Manipur [07-11 February 2022]
- Participated in MNNIT Author Workshop on “**Winning the Game of Publishing**” organized by **WILEY** on 19 May 2022.
- Participated in **Scientific Writing Workshop** organized by **ACS Publications** delivered by **Dr. Ajay Kumar Jha**, on 23 May 2022.
- One day workshop on “**Introduction of millets in day-to-day life for a healthy wellbeing**” organized by Central Library, Motilal Nehru National Institute of Technology Allahabad Prayagraj, Uttar Pradesh, India on 30 November, 2022.
- 1<sup>st</sup> Hands-on-Training on **Rietveld Refinement of X-Ray Diffraction data (RRD)** organized by the Centre for Advanced Computational Studies, Delhi from 9th – 15th January 2024 via Online Mode. Training program had 7 Interactive Sessions by DR. NIKHIL AGGARWAL on Rietveld Refinement of X-Ray Diffraction data using FullProf Software Package.
- Organizer of two days hands on training program on **Spectroscopy, Electrochemical and Electrospinning Techniques** which is organized by Department of Chemistry, HBTU, Kanpur during 21-22 August 2024.

## Teaching Experience:

- During PhD, I have conducted labs and take tutorials (water chemistry) for B. Tech students.

### International Research Publications

1. **Deepak Kumar**, Arti Chouhan, Erwann Jeanneau, Shashank Mishra, Ashutosh Pandey, (2022) Syntheses and characterizations of calcium and strontium based coordination compounds with the 5-(2-pyridyl) tetrazolate ligand, respectively exhibiting extended 1 D and 2 D structures, *Journal of Molecular Structure*, 1260, 132757. (IF = 3.841)
2. Arti Chouhan, **Deepak Kumar**, Guillaume Pilet, Stéphane Daniele, Ashutosh Pandey, (2022) Synthesis and Structure of 3D Bis[5-(2-pyridyl) tetrazolato] diquacopper (II) Framework: One-pot Facile Fabrication of a Catalysts Towards Dye Degradation in Sunlight, *ChemistrySelect* 7 (39), e202202894. (IF = 2.307)
3. **Deepak Kumar**, Ashutosh Pandey, (2023) Synthesis and Characterization of a Nano-Composite CuO@ Zn-2-PTZ {Zn-2-PTZ= bis [5-(2-pyridyl)tetrazolato]} diaquazinc (II) for Efficient Photo-catalytic Degradation of Methylene Blue (MB), Methyl Orange (MO) and mixed (MB-MO) Dyes in Sunlight, *ChemistrySelect* 8 (40), e202302893. (IF =2. 307)
4. Varun Bhatnagar, **Deepak Kumar**, Anjana Pandey, Ashutosh Pandey, (2024) Synthesis and Characterization of a composite incorporating Metal Organic Frameworks, Copper Oxide Nanoparticles, and Graphene Oxide and Evaluating its Multifaceted Potential in Photo-catalysis and Electrochemical Sensing, *Journal of Material Science: Materials in Electronics*, 35 (19), 1374. (IF = 2.8)
5. Varun Bhatnagar, **Deepak Kumar**, Anjana Pandey, Ashutosh Pandey, (2024) Synthesis and Characterization of a composite featuring Metal Organic Frameworks, titania Nanoparticles, and Graphene Oxide: A dual evaluation as a Photo-catalysis and Electrochemical Sensing platform, *Journal of Chemical Sciences* 136 (4), 1-19. (IF = 1.7)

### Conferences Attended/ Papers Presented

1. Presented Oral presentation in “International Conference on Advanced Nanomaterials (ICAN2020)” held on 27<sup>th</sup>-29<sup>th</sup> February 2020 with title “**POROUS NANOMATERIAL LIKE MOFs FOR CATALYTIC APPLICATIONS**”, Organized by: Rama University, Kanpur, U. P. India.
2. Participated in the “**One Day National e-Conference on Recent Advances in Chemical Sciences**” held on 15<sup>th</sup> June 2021. Organized by the Department of Chemistry, University of Lucknow, Lucknow, U.P., India.
3. Presented Oral presentation in “International Conference on Nanotechnology: opportunities and challenges (ICNOC-2022)” held on 28<sup>th</sup>-29<sup>th</sup> November 2022 with title “**SYNTHESIS AND CHARACTERIZATION OF A SILVER BASED MIXED-LIGAND METAL ORGANIC FRAMEWORK AND IT’S PHOTO-CATALYTIC ACTIVITY (WASTE WATER TREATMENT)**”, Organized by: Jamia Millia Islamia University, New Delhi, India.
4. Presented Oral presentation in “International Conference on Technologies and Innovations for Sustainable Development (ICTISD-2023) held on 27<sup>th</sup>-29<sup>th</sup> October 2023 entitled “**CuO@Zn-BDC COMPOSITE SYNTHESIZED AND USED AS A PHOTO-CATALYST FOR DEGRADATION OF METHYLENE BLUE (MB) DYE**”, Organized by: Central Library, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, U.P., India.

### Experimental/computational Expertise

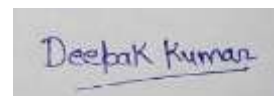
- **Software handling:** Origin, Excel, PowerPoint, Mercury, ChemBiodraw, Mendeley
- **Experimental:** Synthesis of Metal Organic Frameworks and their Nano-composite materials, Study of Photo-catalytic properties in the wastewater treatment.
- **Characterizations:** SC-XRD, FT-IR, UV-Visible, PXRD, PSA, SEM-EDX, BET, PL and TGA.

### DECLARATION

I hereby declare that the information stated by me above is correct to the best of my knowledge.

DATE: 07 January 2025

PLACE: Kanpur



Deepak Kumar