

CURRICULUM VITAE

SONU JAKHAR

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ABOUT ME

An organized professional with proven teaching, guidance and counseling skills. Ability to represent complex information in a simple and entertaining manner with effective teaching. Looking to contribute my acquired knowledge and skills that offers a genuine opportunity for career progression.

EDUCATION

Ph.D. Enrolled Since October 2019

Maharishi Markandeshwar (deemed to be) University, Mullana, Ambala-Haryana (INDIA)

Advisor: Dr. Moumita Kotal

M.Sc. 2018 Class I (Marks: 80.2%), **Chemistry** (Organic Specialization)

Maharishi Markandeshwar (deemed to be) University, Mullana, Ambala-Haryana (INDIA)

B.Sc. 2016 Class I (Marks: 71.7%)

Govt. National College, Sirsa- Haryana, INDIA

I. SC. 2013 Class I (Marks: 62.2%)

Shanti Niketan Public Sr Sec School, Dhingsara, Fatehabad (Haryana)

Matriculation: 2011 class I (Marks: 85.6%)

Govt. High School, Daiyar, Haryana, India



Area of Research: Material Chemistry

Designing of Novel Metal Organic Frameworks (MOFs) and their composites towards application of

- ❖ Photocatalytic removal of organic pollutants.
- ❖ Energy storage materials such as lithium ion batteries and supercapacitors.

PUBLISHED PAPER



1. Graphene Templated Cobalt Nanoparticles Embedded Nitrogen-Doped Carbon Nanotubes for Efficient Visible-Light Photocatalysis Moumita Kotal, Aashima Sharma, **Sonu Jakhar**, Vinit Mishra, Sandipan Roy, Subash Chandra Sahoo, Harish K. Sharma, and Surinder Kumar Mehta *Crystal Growth & Design* **2020** (DOI: 10.1021/acs.cgd.0c00430) [Impact factor: **4.17**]
2. Cathode materials for rechargeable lithium batteries: Recent progress and future prospects. Moumita Kotal, **Sonu Jakhar**, Sandipan Roy, Harish K.Sharma. *Journal of Energy Storage* (2021): 103534. [Impact factor: **6.583**]

AWARDS



1. **University Research Fellowship (URF)** from MMDU, Mullana Ambala July **2019- present**.
2. Qualified **Joint CSIR-UGC National Eligibility Test (CSIR/NET)** -June2019 (Subject: Chemical Sciences) [**AIR: 28**].
3. Qualified **Graduate Aptitude Test in Engineering (GATE)** in 2019, (Subject-Chemistry) *GATE SCORE-365* [**AIR: 3049**].
4. Qualified **Joint CSIR-UGC National Eligibility Test (CSIR/NET)** - December 2019 (Subject: Chemical Sciences). [**AIR: 22**].
5. Qualified **Graduate Aptitude Test in Engineering (GATE)** in 2020, (Subject-Chemistry) *GATE SCORE-460* [**AIR: 1451**].

PROJECT



M.Sc. Project: Maharishi Markandeshwar (deemed to be) University, Mullana, Ambala – Haryana (INDIA).

Supervisor: Dr. Moumita Kotal (Assistant Professor)

Thesis Title: “Comparative study of N-doped and holey graphene towards the exploration of supercapacitor applications”

TRAINING



Six week **Industrial training** in COAX BIOREMEDIATION PRIVATE LIMITED, HISAR.



Teaching

>One year

Teaching Experience of one year at Gyan Jyoti Public School, Manak Diwan (Sirsa)

Currently working as Assistant Professor of chemistry (Department of Applied Science and humanities) at Ch. Devi Lal State Institute of Engineering and Technology, Panniwala Mota (Sirsa) since January 2021.

Webinars/Communications

- 1. Delivered an Oral Communication:** “Exploration Of Metal - Organic Frameworks (MOFs) - Derived Hierarchical Nanostructures Towards Flexible Supercapacitors” at Dept. of Chemistry, MM(DU) Mullana, Ambala on National Science Day 2020.
- 2. Delivered a Webinar**
“Way to crack CSIR-NET/GATE exam” at Dept. of Chemistry, MM (DU) Mullana, Ambala on 28th august 2021.

Faculty Development programme

- 1. Completed an one week Faculty development programme** organized by Dayalbagh Educational Institute **Sponsored by AICTE from 26/10/2021 to 30/10/2021. (No: ATAL/2021/1634822021)**
- 2. Completed an one week Faculty development programme** organized by RAVENSHAW UNIVERSITY **Sponsored by AICTE from 01/11/2021 to 05/11/2021 (No: ATAL/2021/1635581749)**

Administrative

- ✚ Member of Organizing Committee on International Women Day Celebration.
- ✚ Played an Active role to organize the conference “Recent Advances in Chemical Sciences” At MMDU, Mullana.

SEMINARS / POSTER



Oral Presentation

1. **Oral Communication:** “Exploration Of Metal - Organic Frameworks (MOFs) - Derived Hierarchical Nanostructures Towards Flexible Supercapacitors” on National Science Day, 2020, Dept. of Chemistry, MM(DU) Mullana, Ambala.

Poster Presentation

2. **Poster Presentation:** “*Design of Graphene Templated Metal Organic Framework-Derived Carbon Nanotube for Efficient Visible Light Photocatalytic Activities*” (November 16, 2019)
Sonu¹, Ashima Sharma², Sandipan Roy¹, Subhash Chandra Sahoo², Surinder K Mehta*² & Moumita Kotal*¹
3. “**Recent Advances in Chemical Science**” held in MMDU, Mullana, Ambala. 11-12 November, 2016

Talk/Conferences

1. **Attended:** CSI Sponsored National Conference on “**CATALYSIS FOR CLEAN ENERGY AND SAFE ENVIRONMENT**” (CCESE-2019), Department of CIL/SAIF, Panjab University Chandigarh. (November 16, 2019)
2. **Attended:** National Webinar on “**Catalysis for Environmental Remediation (CER-2020)**” on the occasion of World Environment Day on June 05, 2020 Organized by Department of Chemistry, Sardar Vallabhbhai Patel Arts and Science College, Ainpur, Tal. Raver, Dist. Jalgaon, Maharashtra.
3. **Attended: Seminar** “**Recent Advances in Chemical Science**” held in MMDU, Mullana, Ambala. 11-12 November, 2016.
4. **Attended: Webinar** “**BASICS OF GAS ADSORPTION: PHYSISORPTION**” Anton Par (April 20, 2020)
5. **Attended:** “One day international workshop on Mendeley Software for Reference management”. (August 10, 2020)
6. **Attended:** A National Webinar on “ application of biotechnology and chemistry in pharmaceutical world” held on August 11, 2020
7. **Attended:** Two day workshop on Chemdraw 13.06.2020- 14.06.2020, Organized by Department of Chemistry MMEC , MMDU, Mullana (Ambala)

SKILLS



Origin



Used for scientific graphing and data analysis

Chemdraw



Used to draw chemical structure of compounds.

SPSS



This platform offers advanced statistical analysis

Mendeley



Used for reference management in manuscript

MS Office



Microsoft Office is a collection of office-related applications



HOBBIES



Reading



Cricket



Music

LANGUAGES



English



Hindi



Punjabi



Declaration

I declare that the particulars and information given above are correct and true to the best of my knowledge.

Date:10/03/2022

Place: Fatehabad

Sonu Jakhar