

AAYUSHI

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Academic Qualifications

Course	Institute	Year of passing	Marks/CGPA obtained
PhD (Course work)	Thapar Institute of Engineering and Technology, Patiala	2020	10
M.Sc. (Chemistry)	Thapar Institute of Engineering and Technology, Patiala	2019	9.09
B.Sc. (Medical)	Panjab University, Chandigarh	2017	81%
12 th Class	O.S.D.A.V. Public School, Kaithal	2014	91%
10 th Class	O.S.D.A.V. Public School, Kaithal	2012	9.8

Internships/ Project

- **MSc Dissertation in Advanced Nanomaterials**

Research project - Solar Light-Driven Photocatalytic Degradation of Noxious Pollutants by Mesoporous g-C₃N₄@BiOCl hybrid

Supervisor - Dr. Soumen Basu

Institute - Thapar Institute of Engineering and Technology, Patiala, India.

- **Research experience - Polymer Chemistry**

Research project - Synthesis of Alanine based Methacrylate monomer and its polymerization by RAFT

Supervisor - Dr. Priyadarsi De

Institute - Polymer Research Centre, IISER (Indian Institute of Science Education and Research) Kolkata, India.

Publications

1. Sharma, S., **Kundu, A.**, Basu, S., Shetti, N. P., & Aminabhavi, T. M. (2020). Sustainable environmental management and related biofuel technologies. *Journal of Environmental Management*, 273, 111096. (IF=6.789)
2. **Kundu, A.**, Basu, S., Shetti, N. P., Malik, A. K., & Aminabhavi, T. M. (2020). The COVID-19 Paradox: Impact on India and Developed Nations of the World. *Sensors International*, 100026. (IF=Yet to come)
3. Sharma, S., **Kundu, A.**, Basu, S., Shetti, N. P., & Aminabhavi, T. M. (2020). Indians vs. COVID-19: The scenario of mental health. *Sensors International*, 1, 100038. (IF=Yet to come)
4. **Kundu, A.**, Sharma, S., & Basu, S. (2021). Modulated BiOCl Nanoplates with Porous g-C₃N₄ Nanosheets for photocatalytic degradation of Color/Colorless Pollutants in Natural Sunlight. *Journal of Physics and Chemistry of Solids*, 110064. (IF=3.995)
5. **Kundu, A.**, Shetti, N. P., Basu, S., Reddy, K. R., Nadagouda, M. N., & Aminabhavi, T. M. (2021). Identification and removal of micro-and nano-plastics: Efficient and cost-effective methods. *Chemical Engineering Journal*, 129816. (IF=13.273)
6. **Kundu, A.**, Maity, B., & Basu, S. (2022). Coal-derived graphene quantum dots with a Mn²⁺/Mn⁷⁺ nanosensor for selective detection of glutathione by a fluorescence switch-off–on assay. *New Journal of Chemistry*, 46, 7545. (IF=3.591)
7. **Kundu, A.**, Basu, S. (2022). Microplastics and Nanoplastics in Aquatic Environment: Challenges and Threats to Aquatic Organisms. *Assessing the Effects of Emerging Plastics on the Environment and Public Health*, 71-89. IGI Global.

Paper Presented

- Presented at 7th International Conference on Bio-sensing Technology organized by Elsevier in Sitges, Spain from 22nd-25th May, 2022 entitled:
Synthesis of graphene quantum dots from anthracite and bituminous coals with Mn nano-sensor for GSH sensing
- Presented a paper in International Webinar on COVID-19 Challenges and Future Strategies on 25th June, 2020 organized by Govt. Adarsh College, Umaria, MP, India entitled:
 1. **COVID-19: The lone disaster with many insinuations (Author)**
 2. **COVID-19: Opportunity and Threats for Businessman (Co-Author)**

Conferences/Webinars Attended

- Participated in two days International Virtual Conference on “**Modern Instrumental and Characterization Techniques in Applied Sciences-2020 (MICTAS-2020)**” on 5th-6th July, 2020 organized by Uttarakhand Science Education and Research Centre, India.
- Participated in three days webinar series on “**Scope of Nanomaterials in Engineering and Technology**” from 9th to 11th July, 2020 organized by department of Engineering Sciences, MM College of Engineering, Pune, India.
- Participated in two days webinar on “**Recent Advances in Chemical Science**” during 25th and 26th June, 2020 organized by Chemistry department, JB institute of Engineering and Technology, Hyderabad, India.
- Attended three days National webinar series on “**Chemistry-Concepts and Career Opportunities**” from 16th to 18th July, 2020 organized by department of Engineering Sciences, MM College of Engineering, Pune, India.
- Participated in National Webinar series on “**Practicing Chemdraw, Origin and Mendeley Tools in Research**” from 8th -10th August, 2020 organized by department of chemistry, Laxman Singh Mahar Government Post Graduate College, Pithoragarh.
- Attended three days training workshop on “**Mendeley Reference Manager**” from 4th to 6th July, 2020 organized by Nuhianwali Education Society.
- Attended one day training workshop on “**Advanced Functionality of Mendeley Reference**” from 26th July, 2020 organized by Nuhianwali Education Society.
- Participated in International Webinar on “**Quantum Materials and Nanoparticles for Advanced Applications**” on 6th August, 2020 organized by Kamraj College, Thoothukudi.

Academic Achievements and Awards

- Qualified IIT JAM in year 2017.
- Awarded with Young Achiever Award 2021 by Institute of Scholars.
- Was honored with “Certificate of Merit” for securing 3rd position in aggregate in mid semester examinations (2015-16) in GGSDS College, Chandigarh.
- Was honored with “Rajya Puraskar” from the Haryana State Bharat Scouts & Guide.
- Received scholarship from CBSE under CSSS scholarship scheme (for 5 years).

Extra-curricular Activities

- Held First position in Kho–Kho, Second in 4*400 mts and 1500 mts and third in 800 mts in All India MHRT Tournaments.
- Participated in 19th & 20th National Children Science Congress as a young scientist.
- First in declamation at state level in the year 2012.
- Attended NSS (National Service Scheme) in year 2017 and awarded Certificate ‘A’.
- Co-Convenor of CARE (Chemist’s Association for Research and Education) Society, School of Chemistry and Biochemistry, TIET, Patiala.
- “Certificate of Merit” for outstanding performances in GGSDS Girls hostel, Chandigarh.
- Third prize in All India MHRT Debate competition.
- First in declamation organized by District children welfare association in year 2012 and 2013
- Discipline proctor, floor proctor, mess committee member, committee against sexual harassment in GGSDS Girls hostel, Chandigarh.
- Proctor Hostel N, Thapar Institute of Engineering and Technology, Patiala (2017-2020).
- Executive member of Pratigya Society (An NGO).

Other Skills

- Good verbal and written communication skills
- Ability to learn and implement the strategies
- Hard working and committed to work
- Efficient with MS-Office, MS-Excel, Chem draw
- Determined, dedicated and optimistic
- Leadership qualities
- Enjoy working in team as well as individually

Declaration

I hereby declare that all the information mentioned above is correct to the best of my knowledge.

AA YUSHI