



Dr. Dushyant Kumar (Assistant Professor),
Environmental Science, (School of Engineering and
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Contact Information

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Qualifications

B. Sc. (Biology) Ch. C. S. University, Meerut

M. Sc. (Environmental Science) - Department of Environmental Science, Ch. C. S. University
Campus, Meerut, Uttar Pradesh

Ph.D. (Env. Sci. & Tech) Indian Institute of Technology, Roorkee

Post-Ph.D.- Expert member of liquid waste management group at Centre for Rural
Development and Technology, Indian Institute of Technology, Delhi, (01 Sep 2020-July 2022)

Current position

Assistant Professor, Department of Environmental Science under School of Engineering &
Technology (SoET), Central University of Haryana, Mahendergarh, Haryana, India (July
2022-today).

Research Interest

Environmental pollution & global issues, Water and wastewater treatment & recycle,
Advanced oxidation process, Membrane filtration, Bioremediation, Solid waste management,
Waste to value added products, Ecosystem and biodiversity conservation, etc.

Research experience

- Junior research fellowship granted by UGC, New Delhi India at Indian Institute of Technology, Roorkee, India.
- Senior research fellowship granted by UGC, New Delhi India at Indian Institute of

Technology, Roorkee, India.

- Sr. project Assistant at centre for Rural Development and Technology, Indian institute of Technology, Delhi, Hauz Khas New Delhi-110016, India
- Expert member of liquid waste management group at centre for Rural Development and Technology, Indian institute of Technology, Delhi, Hauz Khas New Delhi-110016, India

Awards & Professional recognition

- Qualified Junior Research Fellowship, National Eligibility Test in Environmental Science.
- Life member of Indian water resources Society.
- Editorial board member of the journal Frontiers in Environmental Chemistry.
- Outstanding peer review awards from many reputed journals.

Research contribution

- **Dushyant Kumar**, Chhaya Sharma (2021) Treatment of paper industry wastewater by electrocoagulation and characterizations of their byproduct Journal of Cleaner Production (IF-11.29).
- **Dushyant Kumar**, Chhaya Sharma Reduction of chlorophenols from pulp and paper industry wastewater using different metal electrodes: a comparative study (2021) Submitted in Journal of Chemistry and Environment (Scopus).
- **Dushyant Kumar**, Chhaya Sharma (2021) Pulp and paper industry wastewater and their treatment by electrocoagulation: a review" Journal of Electrochemical Science and Engineering (Scopus, WoS).
- **Dushyant Kumar**, Chhaya Sharma (2019) Reduction of chlorophenols and sludge management from paper industry wastewater using electrocoagulation. Journal of Separation Science and Technology (SCI, WoS)
- **Dushyant Kumar**, Vivek K Gaurav, Chhaya Sharma (2019) Eco-friendly remediation of pulp and paper industry wastewater by electrocoagulation and its recycling potential. American Journal of Plant Science, (WoS).
- **Dushyant Kumar**, Chhaya Sharma (2019) Remediation of pulp and paper industry effluent using electrocoagulation process. Journal of Water Resource and Protection

(WoS).

- **Dushyant Kumar**, Smita S. Kumar, Sandeep K Malyan (2017) Xylanases and their industrial applications: A review, Biochemical and Cellular Archives, (Scopus).
- Vivek K Gaurav, **Dushyant Kumar**, Chhaya Sharma (2019) Assessment of metal accumulation in the Vegetables and associated health risks in the upper most Ganga-Yamuna Doab region, India. American Journal of Plant Science (WoS).
- Qaseem Haider, **Dushyant Kumar**, Chhaya Sharma (2021) Effect of recycling of elemental chlorine free (ECF) bleaching effluent through electrocoagulation on paper properties. Journal of Cellulose Chemistry and Technology (Scopus).
- Bharti, Jeet singh Jangwan, Smita Kumar, Vivek kumar, Amrish kumar, **Dushyant kumar** (2021) A review on the capability of zinc oxide and iron oxides nano-materials as a water decontaminating agent: Adsorption and Photocatalysis, Applied water Science.

Book chapters

- Smita S Kumar, Ankita Rai, Renu Singh, **Dushyant Kumar**, (2020) Bio-electro-remediation technologies in remediation of environmental pollutants: Challenges and future prospects In: Kumar V., Saxena G., Shah Mullin., (Eds) Bioremediation for environmental sustainability approaches to tackle pollution for cleaner and greener society.
- **Dushyant Kumar**, Sandeep k Malyan, Amrish Kumar, Jagdeesh Kumar (2020) Microbiological removal of heavy metals from environment/wastewater: An eco-friendly approach in CRC press, Taylor & Francis Group part of book “Nanobiotechnology for a Green Environment”.

Conferences/Seminars/Symposium

- Chloro-compounds from paper industry wastewater through electrocoagulation treatment a paper presented in International Conference on Chemical and Biochemical Engineering [ICCBE] held at Amsterdam, Netherland on 9-10 June 2019.
- Removal of COD and Color from paper mill wastewater through electrocoagulation a paper presented at International Conference on Sustainable Technologies for Intelligent Water Management held at Water Resources Department IIT Roorkee

Uttarakhand, India 16-19 Feb 2018.

- Removal of COD, TOC and color from pulp and paper industry wastewater using electrocoagulation a poster presented at International Conference on Strategies for Environment Protection and management held at School of Environmental Science JNU New Delhi, Dec 11-13, 2016.
- Reduction of pollution load generated by pulp and paper mills through electrocoagulation a poster presented at International Conference on Recent Advances in Analytical Sciences held at IIT, Banaras Hindu University, 7-9 April 2016.
- Remediation of COD and color from pulp and paper industry effluent using electrocoagulation a poster presented at the National Symposium on Managing Agriculture in a Changing Environment, organized by Society for Conservation of Nature, held at Center for Environment Science and Climate Resilient Agriculture, ICAR-IARI –New Delhi on 1-2 Dec 2016.
- Reduction of COD and color from pulp and paper industry wastewater using electrocoagulation a poster presented at the National Symposium on Environmental Toxicology held at Department of Zoology CCS University Meerut, UP, on 25-26 March 2016
- Assessment of avian diversity of Hasitnapur Wildlife Sanctuary, Meerut, UP, India a poster presented in a UGC sponsored national seminar on Recent Advancement in Life Sciences: Potential Benefits & Risks, organized by Department of Zoology held at D. N. College Meerut 5-6 Feb 2011.

Trainings/workshops/Webinars

- Participate in one-day awareness training course on Cleaner Technology in Pulp and Paper Industry” held at Department of Paper Technology IIT Roorkee Saharanpur Campus, Saharanpur on 24 March 2014.
- Participate in three day National Workshop on Solar Energy Utilization (SUN) for Sustainable Development held at CSIR-NEERI Nagpur, on 23-25 Nov 2015.
- Participate in two days workshop on Advances in Packaging Technology on October 6-7, 2015 held at Department of Paper Technology IIT Roorkee.
- Participate in the Webinar series Rainwater Harvesting, conducted by IIT Madras from

1-5 June, 2020.

- Participate in International Webinar on Microbial Diversity: from Health to Environment organized by department of Botany and Microbiology H.N.B. Garhwal University Srinagar (Garhwal), Uttarakhand 27 June 2020.
- Participate in International Webinar on material synthesis and characterization (IWMSC-2020) organized by department of department of physics and electronics, Dr. Ram, Manohar Lohiya Avadh University Ayodhya UP India, 11-13 June 2020.
- Participate in International Webinar on Recent Innovation in Chemical Sciences (RICS-2020), jointly organized by Department of Chemistry AKS, (University Satna), M.P. and Govt . P.G. College Chunar (Mirzapur) U. P. India, 18-20 July 2020.

(Dushyant Kumar)