

**Name : Dr. Swati Jain**

**Designation: Adjunct Assistant Professor, GSFCU &**

**Additional Manager (Research), GSFC Ltd**



Phone: 9408758346/9414543626

E-mail: [skjain@gsfcltd.com](mailto:skjain@gsfcltd.com)/[swatijainbio@gmail.com](mailto:swatijainbio@gmail.com)

School: School of Technology

**Research Interest:**

New product development, value addition to existing products, quality improvement & effluent treatment.

**Academic Background:**

Degree	Subject	University	Year
Ph.D.	Wastewater Treatment	MNIT Jaipur	2014
Post Graduate Diploma in Nano biotechnology (PGDNBT)	Nano biotechnology	Life Science Foundation India (LSFI India)	2010
BE	Biotechnology	University of Rajasthan	2008

**Professional Experience:**

From	Period	Position	Organisation
February, 2014	Till now	Addl. Manager (Research)	GSFC
July, 2013	February, 2014	Faculty on Contractual basis	College of Technology and Engineering (CTAE)
August, 2008	December, 2008	Faculty on Contractual basis	College of Dairy and Food Science Technology (CDFST)

**Teaching Engagements:**

Title	Course Code	Class Name	School Name

### **Publications:**

1. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, Sangeeta Vyas, "A Review on Fate of Antiviral Drugs in Environment and Detection Techniques," in International Journal of Environmental Sciences, 2011, 1(7), pp. 1526-1541, ISSN 0976-4402.
2. Richa Sharma, **Swati Jain**, Raj K. Vyas, "Photochemical Degradation of Diclofenac using synthesized nano-sized ZnO," in International Journal of Environmental Engineering and Management, 2012, 3(2), pp. 277-280, ISSN 2231-1319.
3. **Swati Jain**, Pardeep Kumar, Raj K. Vyas, Prabhat Pandit, Ajay K. Dalai, "Occurrence and Removal of Antiviral Drugs in Environment: A Review," Water, Air, & Soil Pollution, 2013, 224 (1410), pp.1-19, DOI: 10.1007/s11270-012-1410-3 (I.F.-1.774, NAAS- 7.77) ISSN : 0049-6979/1573-2932.
4. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, Ajay K. Dalai, "Adsorption of Antiviral drug, Acyclovir from aqueous solution on Powdered Activated Charcoal: Kinetics, Equilibrium and Thermodynamic studies," Desalination and Water Treatment, 2014, 52 (25-27) pp. 4953-4968, DOI: 10.1080/19443994.2013.810324 (I.F.-1.234, NAAS- 7.23) ISSN: 1944-3994/1944-3986.
5. **Swati Jain**, Pardeep Kumar, Raj K. Vyas, Prabhat Pandit, Ajay K. Dalai, "Adsorption optimization of acyclovir on prepared activated carbon," The Canadian Journal of Chemical Engineering, 2014, 92 (9) pp. 1627-1635, DOI 10.1002/cjce.22026 (I.F.-1.610, NAAS-7.61) ISSN: 0008-4034.
6. **Swati Jain**, N. K. Sanchapara, K.A. Patel, A.S. Sikdar, "Recovery of ammonium sulphate from effluent stream of Ammonium Sulphate Plant at GSFC- A case study" Chemical Engineering World, 2016, 51(1) pp.66. Same paper has been referenced in FAI Abstract Services, Vol. No. 46, Issue No. 4, April 2016, Page 1, ISSN: 0014-5564.
7. **Swati Jain**, Priyadarshini Lenka, Pujan Vaishnav, Jinali Shah, Ajay Joshi "Color Removal and COD Reduction of Organic Effluent Stream from a Petrochemical Plant" International Journal of Recent Technology and Engineering (IJRTE), 2019, 8(4) pp. 1786-1792, DOI 10.35940/ijrte.C6118.118419 (I.F.5.92) ISSN: 2277-3878.
8. **Swati Jain**, Jinali Shah, Nirmitt Sanchapara, Mukesh Panchal, Bhavika Patel, H.M. Popat, Ajay Joshi, Pujan Vaishnav "Simulation Experiments on Lumping Issues in APS Granules A Case Study" Indian Journal of Fertilisers, 2021, 17 (6) pp. 594-598 ISSN: 0973-1822 (I.F.-3.78, NAAS - 2.80).
- 9.

### **PAPERS IN CONFERENCE PROCEEDINGS**

1. P.P. Lenka, **S.K. Jain**, A.B. Joshi, P.B. Vaishnav "A Review on Treatment Processes of Organic Effluent Stream from a Petrochemical Plant," One Day Seminar On Environmental Impact Assessment organized by Department of Environmental Studies, Faculty of Science, The Maharaja Sayajirao University Of Baroda on 22<sup>nd</sup> March 2019.
2. P. A. Yadava, M. C. Valodkar, P. O. Suresh, **S.K. Jain**, K. A. Patel, A. K. Bhatt, A.S. Sikdar, "Treatment of Organic Effluent Stream from a Petrochemical Plant," National Conference on Green Chemistry and Sustainable Environment (GCSE-2016), organized by B.S. Abdur Rahman University, Chennai, August 2-3, 2016, India, pp.35.
3. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, "Nonlinear Modeling of Equilibrium data for Adsorption of Acyclovir onto Powdered Activated Charcoal," International Conference on

- Advances in Chemical Engineering (ACE 2013), organized by Indian Institute of Technology Roorkee, February 22-24, 2013, Roorkee, India, pp. 60-61.
4. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, Manisha Sharma, Neha Sharma, Ajay K. Dalai, "Application of Response Surface Methodology for Adsorptive removal of Acyclovir from Aqueous Solutions on Prepared Powdered Activated Carbon," Proceedings of the International Conference on Water Desalination, Treatment and Management, organized by Department of Chemical & Civil Engineering, MNIT Jaipur, February 21-22, 2013, Jaipur, India, P-72.
  5. Richa Sharma, **Swati Jain**, Raj K. Vyas, "Optimization of factors affecting removal of diclofenac on Amberlite IR 120H using Response surface methodology," Proceedings of the International Conference on Water Desalination, Treatment and Management, organized by Department of Chemical & Civil Engineering, MNIT Jaipur, February 21-22, 2013, Jaipur, India, P-71.
  6. Sandeep Dahiya, **Swati Jain**, Raj K. Vyas, "Occurrence of Oseltamivir in Wastewater and Removal Techniques-A Brief Overview," Proceedings of the International Conference on Water Desalination, Treatment and Management, organized by Department of Chemical & Civil Engineering, MNIT Jaipur, February 21-22, 2013, Jaipur, India, P-93.
  7. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, Richa Sharma, "A Comparative Study of Acyclovir Removal from Aqueous Solution using Ion Exchange Adsorbents," Proceedings of 65<sup>th</sup> Annual Session of Indian Institute of Chemical Engineers, International Conference on Sustainable Technologies for Energy and Environment in Process Industries and US-India Joint International Conference on Energy and Environment, CHEMCON 2012, December 27-30, 2012, Punjab, India, P-197.
  8. Sandeep Dahiya, **Swati Jain**, Raj K. Vyas, "Removal of Contaminants from aqueous solution by Nanosized Adsorbents: A Review," Proceedings of 65<sup>th</sup> Annual Session of Indian Institute of Chemical Engineers, International Conference on Sustainable Technologies for Energy and Environment in Process Industries and US-India Joint International Conference on Energy and Environment, CHEMCON 2012, December 27-30, 2012, Punjab, India, P-239.
  9. Richa Sharma, **Swati Jain**, Raj K. Vyas, "Response Surface Methodology for Optimization of Diclofenac Adsorption on Amberlite IR 120H," Proceedings of 65<sup>th</sup> Annual Session of Indian Institute of Chemical Engineers, International Conference on Sustainable Technologies for Energy and Environment in Process Industries and US-India Joint International Conference on Energy and Environment, CHEMCON 2012, December 27-30, 2012, Punjab, India, P-202.
  10. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, "Nonlinear Modeling of Equilibrium data for Adsorption of Acyclovir onto Amberlite<sup>®</sup> IR 120H," National Conference on Water Quality Management (NCWQM-2012), organized by Department of Civil & Chemical Engineering, MNIT Jaipur, December 20-22, 2012, Jaipur, India.
  11. Richa Sharma, **Swati Jain**, Raj K. Vyas, "Photochemical Degradation of Diclofenac using synthesized nano-sized ZnO," Emerging Trends in Engineering, Technologies & Sciences for Sustainable Development, Krishi Sanskriti at JNU, June 5-6, 2012, New Delhi, India.
  12. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, Ajay K. Dalai, "Optimization of adsorption capacity of acyclovir using activated carbon prepared from pine cone," in International Conference on Recent Trends of Computer Technology in Academia (ICRTCTA 2012) conducted by JRN Rajasthan Vidyapeeth University, April 21-23, 2012, Udaipur (Rajasthan), India.
  13. **Swati Jain**, Pardeep Kumar, Ajay K. Dalai, Raj K. Vyas, Prabhat Pandit, "Acyclovir Removal from Aqueous solution on Activated Carbon: Kinetic and Thermodynamic

Studies,” 61<sup>st</sup> Canadian Chemical Engineering Conference, October 23-26, 2011, pp.86, London, Ontario, Canada.

14. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, Sangeeta Vyas, “Adsorption of Antiviral drug Acyclovir on Activated Carbon: Equilibrium Studies,” Proceedings of the 2<sup>nd</sup> Conference on Advances in Chemical Engineering (ACHEME 2011), Published by Macmillan Publishers India Ltd., New Delhi, organized by Thapar University, February 27-28, 2011, pp. 236-241, Patiala, India.
15. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, Sangeeta Vyas, “Occurrence of Antiviral Drugs in Environment and their Detection Techniques,” Conference of International Academy of Physical Sciences (CONIAPS-XII), December 22-24, 2010, pp.193, Jaipur, India.
16. **Swati Jain**, Raj K. Vyas, Prabhat Pandit, Sangeeta Vyas, “Occurrence of Antiviral Drugs in Environment and their Removal: A Review,” Indian Chemical Engineering Congress, CHEMCON Proceedings, December 27-29, 2010, pp.392, Tamil Nadu, India.
17. **Swati Jain**, “A Review on Treatment of Color Removal from Dye Wastewater through Bacteria,” 2<sup>nd</sup> National Symposium on Emerging Trends and Opportunities in Basic and Applied Sciences, January 30, 2010, pp.29, Jaipur, India.

### **Book:**

1. Swati Jain, Ranveer Singh Shekhawat, Chitranjan Agarwal, “Nanotechnology in Wastewater Treatment,” in Introduction to Nanotechnology Applications, Edition 2015, published by Himanshu Publications.

### **Awards/Recognitions:**

1. Awarded with Young Scientist Award by Venus International Research Awards (VIRA), Chennai on 3rd December, 2016.
2. Awarded with Graduate Student Exchange Program (GSEP) Fellowship in Department of Chemical and Biological Engineering, University of Saskatchewan, Canada from July 1, 2011 to January 31, 2012.
3. Throughout topper in academics.
4. Awarded for meritorious position in All India Senior Secondary Examination by “Young Jaina Award.”
5. 3rd position in G.K. Quiz Competition in Udaipur District organized by “Bharat Vikas Parishad.”
6. Participated for final round presentation/competition for “23rd Annual Awards for Outstanding Young Managers-2014 (AAOYM)” on the theme Women Empowerment-Journey from Kitchen to Korporate to Kabinet organized on May 25-27, 2014 at Vadodara by Baroda Management Association (BMA).
7. Certified ISO Internal Auditor (ISO 9001:2015, 14001:2015, 18001:2007, 50001:2011).
8. Chaired the Session on theme: Wastewater Management Technologies and Salinity Control on February 11, 2016 in WaterEx Gujarat Conference 2016 (ChemTECH).
9. Reviewer of Journal of Environmental Chemical Engineering (JECE).