



# SUNIL KUMAR SRIVASTAVA, PH.D.

Assistant Professor (Sr. Grade)

ResearchGate: [https://www.researchgate.net/profile/Sunil\\_Srivastava3](https://www.researchgate.net/profile/Sunil_Srivastava3)

Google Scholar: <https://scholar.google.com/citations?user=wQxmSmAAAAAJ&hl=en&oi=ao>

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## PROFILE

I am working in the area of water quality, water resource management, and solid waste management since Aug 2000. Recently, I have completed MPCST sponsored research project entitled "Hydrogeochemical Assessments of Groundwater Quality Using Graphical & Multivariate Statistical Method, Guna District" in Oct. 2018 and one ongoing project since April 2018 sponsored by Jaypee Group, a research project entitled "Optimization of Raw-water Treatment plant". I have also worked as expert member for the **DISTRICT ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY (DEIAA)** for Guna, Ashok Nagar and Shivpuri district of M.P. DEIAA works under guidance of **MINISTRY OF ENVIRONMENT and FOREST**, Government of India for looking environmental issues related sand/stone mining up to 5 hectares (April 2016 to March 2019).

I am working as an independent consultant for villagers/people of the Guna district for Water Resource Management. Recently, I have started to work on the impact of irrigation water quality on crop yields. I have utilized GIS and Remote Sensing for resolving national and regional problems of water resource management.

## CONTACT

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## HOBBIES

1. Reading Book, Journals etc.
2. Playing Cricket, Soccer etc.
3. Listening Music and writing poem.

## LANGUAGE

1. English and Hindi (Writing & Speaking).
2. Swedish and French (Beginner).

## PH.D./M.TECH./M.SC THESIS SUPERVISED AND COMPLETED (03)

- |                          |                            |                          |
|--------------------------|----------------------------|--------------------------|
| 1. Number of Ph. D. = 01 | 2. Number of M. Tech. = 01 | 3. Number of M. Sc. = 02 |
|--------------------------|----------------------------|--------------------------|

## EDUCATION

**[Jawaharlal Nehru University, New Delhi, India]**

**[3<sup>rd</sup> Aug 2000 to 26<sup>th</sup> May 2006]**

1. **Ph.D. (2006)** in *Water Resource* from Jawaharlal Nehru University (JNU, NIRF Ranking 2<sup>nd</sup> in 2020), India.

**Thesis Topic-** "Study of the Ground Water Quality Variations in the Vicinity of the Selected Landfill Sites in Delhi, India"

2. **M.Phil. (2002)** in *Environmental Science* from Jawaharlal Nehru University (JNU, NIRF Ranking 2<sup>nd</sup> in 2020) (**FIRST DIV.**), India.

**[Indian Institute of Remote Sensing (IIRS), Dehradun, India]**

**[Certificate Course]**

3. Certificate Course of GIS/Remote Sensing for IIRS Dehradun, India, 2021.

## WORK EXPERIENCE

**[Jaypee University of Engineering & Technology, India]**

**[Assistant Professor (Sr. Grade)] [1<sup>st</sup> July 2011 to till Date]**

Teaching to Under Graduate (B. Tech. and B.Sc.), Post Graduate (M.Tech., M.Sc. and Ph.D.) students and research activity including consultancy.

**[Sr. Lecturer] [1<sup>st</sup> July 2010 to 30<sup>th</sup> June 2011]**

Teaching to Under Graduate (B. Tech. and B.Sc.), Post Graduate (M.Tech., M.Sc. and Ph.D.) students and research activity.

**[Lecturer] [2<sup>nd</sup> July 2008 to 30<sup>th</sup> June 2010]**

Teaching to Under Graduate (B. Tech. and B.Sc.), Post Graduate (M.Tech., M.Sc. and Ph.D.) students and research activity.

**[IMS Engineering College, India] [Lecturer]**

**[24<sup>th</sup> May 2006 to 1<sup>st</sup> July 2008]**

Teaching to Under Graduate (B. Tech. and B.Sc.), Post Graduate (M.Tech. and M.Sc.) students and research activity.

## SKILLS

**Research Area:** Water Resource, Remote Sensing, and GIS.

**Software-** QGIS, Microsoft Office, Window-10, MiniTab-14, Pro-Origin, Visual MODFLOW/MT3D, WATCLAST, AQUACHEM, SURFUR, MAPSCAN, MAPINFO, ARCVI, SPSS, STATISTICA, PHREEQC, MATLAB etc.

**Instrument:** AAS, Spectrophotometer, TGA, NMR, IR, GC, ICP-MS etc.

## RESEARCH PUBLICATIONS

**2021**

1. Invasive weed optimization coupled biomass and product dynamics of tuning soybean husk towards lipolytic enzyme. *Bioresource Technology* 2021 (**Elsevier Pub.**) (IF 9.642) (Accepted & In press).
2. New Challenges on Natural Resources and their Impact on Climate Change in the Indian Context. Book: India: Climate Change Impacts, Mitigation and Adaptation in Developing Countries 2021. (**Springer**) vol 1, issue 1, page 1-15.

**2020**

1. Advancement in biogas production from the solid waste by optimizing the anaerobic digestion-A Review. *Waste Disposal and Sustainable Energy* 2020 (**Springer**) vol 2, issue 2, page 85-103. <https://doi.10.1007/s42768-020-00036-x>.

**2019**

2. Assessment of groundwater quality for the suitability of irrigation and its impacts on crop yields in the Guna district, India. *Agricultural Water Management* 2019 (**Elsevier Pub.**) vol. 216, page 224-241 (IF 4.021).
3. The mathematical modeling for the optimization of triacylglycerol Acylhydrolases Production Through Artificial Neural Network and Genetic Algorithm". *International Journal of Pharma and Bio Sciences*. Vol. 10 (3), page 135-143 (SJIF 7.446).
4. Production of microbial enzyme triacylglycerol Acylhydrolases by ASPERGILLUS SYDOWII JPG01 by in submerged fermentation using agroresidues". *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*. Vol 21, issue 4, 2019.

**2018**

5. Geochemical assessment of fluoride enrichment and nitrate contamination in groundwater in hard rock aquifer by using graphical and statistical methods. *Journal of Earth System Science* 2018 (**Springer Pub.**) Vol 127, issue 7, pp 104 (1-23) (Impact Factor 1.423).
6. Engineering aspects of immobilized lipases on esterification: A special emphasis of crowding, confinement and Diffusion effects. Jan. 2018 (**Wiley VCH Pub.**), *Engineering in Life Science*, vol 18, page 308-316. (Impact Factor 1.934).
7. Assessment of landfills vulnerability on the groundwater quality located near floodplain of the perennial river and simulation of contaminant transport. *Modeling Earth System and Environment* 2018" (**Springer Pub.**) vol 4 Issue 2 page 729-752.

**2017**

8. An assessment of hydrogeochemistry of two wetlands located in Bihar State in subtropical climatic zone of India. *Environmental Earth Sciences*, 2017 (**Springer Pub**) vol 76 (1); pp 1-19; (IF 2.180).
9. Design of anaerobic digester for producing biogas from Municipal Solid Waste. Poster presentation in International Workshop on Sustainable Energy, Kalmar Institute of Technology, Sweden, 6-8<sup>th</sup> Dec. 2017, poster No 20.

**2016**

10. Statistical evaluation of Recovery of copper from ewaste by using Hydrometallurgical Method and RSM model" *Journal of Environmental Science, Toxicology and Food Technology*" Oct. 2016, vol 10, issue 7 ver. II pp 31-43 (IF 1.832).

**2012**

11. *Groundwater in Vicinity of landfill*. 2012 (LAMBERT ACADEMIC PUBLISHING), GERMANY, Jan. 2012 ISBN: 9783847328858.

**2011**

12. Bottom-Up approach: A versatile approach nanomaterial synthesis. Poster presentation in National Conference, Recent Trend in material Science (RTMS) from 8<sup>th</sup> to 10<sup>th</sup> October 2011.

**2008**

13. Geochemical Assessment of Groundwater Quality in vicinity of Bhalswa landfill using Graphical and multivariate statistical method, Delhi, India. *Environmental Geology*, 2008, (**Springer Pub.**) Vol. 53, 1509-1528. (IF 2.180).
14. Hydro- geochemical studies around the Bhalswa landfill in Delhi, India. AA Balkema (**Taylor and Francis Group London UK**) "Groundwater for Sustainable Development: Problems, Perspectives and Challenges (2008) "ISBN: 9780415407762, ISBN-10: 0415407761 Chap 8, 69-85.

**2007**

15. An Aquifer Vulnerability Assessment Using the DRASTIC Model in Landfill Sites, Delhi, India. In proceeding an international Conference on Coastal Zone Environment and Sustainable Development, Vulnerable, Adaptation and Beyond. (12<sup>th</sup> to 14<sup>th</sup> Feb 2007) pp 103.
16. An Approach to Manage Groundwater Aquifers Including Coastal City Aquifer of India. In proceeding an international Conference on Coastal Zone Environment and Sustainable Development, Vulnerable, Adaptation and Beyond. (12<sup>th</sup> to 14<sup>th</sup> Feb 2007) pp 104.

**2006**

17. Metal fractionation studies in Surficial and Core sediments in the Achankovil River basin, India. *Environmental Monitoring and Assessment* 2006 (**Springer Pub.**) (Volume 121, NO. 1-3, Page 77-102) (IF 1.903).
18. Hydrogeochemistry of groundwater in vicinity of Bhalswa Landfill, Delhi, India. In proceeding of International Conference on Groundwater for Sustainable Development, Problem Perspective and Challenges since 1<sup>st</sup> Feb to 4<sup>th</sup> Feb 2006.
19. Simulation of Solute Transport in South Delhi, Using Okhala Phase II as point source, Delhi, India. In proceeding of International Conference on Groundwater for Sustainable Development, Problem Perspective and Challenges since 1<sup>st</sup> Feb to 4<sup>th</sup> Feb 2006.

**2005**

20. An overview of the Hydrogeochemical Water Quality Model" (2005) *Mathematical Models in Hydro-geochemistry, Assessment of Quality and Management* (sept 19<sup>th</sup> to 5<sup>th</sup> Oct 2005) (pp 49-59).
21. Groundwater Resource Management. In proceeding an international workshop conducted by SIS, Jawaharlal Nehru University (7<sup>th</sup> to 8<sup>th</sup> April 2005) (unpublished).
22. Groundwater quality in vicinity of Bhalswa Landfill, Delhi, India. In proceeding of National Workshop conducted by IIT, Delhi (18<sup>th</sup>-19<sup>th</sup> May 2005).

**2004**

23. An over view of Mathematical Modelling. *Hands on Training in Mathematical Modelling*, Prashant Publishing Co. (2004), New Delhi, India pp 48-57.