

## **Publications:**

### ***International Journal – 06***

1. Dixit, A., Singh, D., & Shukla, S. K. (2022). Changing scenario of municipal solid waste management in Kanpur city, India. *Journal of Material Cycles and Waste Management*, 1-15. <https://doi.org/10.1007/s10163-022-01427-4>
2. Mishra, A., Das, S., **Singh, D.** *et al.* (2021). “Effect of COVID-19 lockdown on noise pollution levels in an Indian city: a case study of Kanpur”, *Environ Science and Pollution Research*, Springer, April 2021 pp 1-13.  
[<https://doi.org/10.1007/s11356-021-13872-z>]
3. Singh, B. P., Srivastava, P., Trivedi, A., **Singh, D.** (2021). “Application of Geospatial Techniques for Hydrological Modelling”, *International Journal of Multidisciplinary research and Analysis*, Vol. 04, issue 02, Feb 2021, pp. 181-192.  
[ISSN(online): 2643-9875, DOI: 10.47191/ijmra/v4-i2-12 ]
4. Singh, K.P., **Singh, D.** (2019). “Experimental Study of Fluoride Removal from Drinking Water through the Use of Sand as Adsorbent by Solar Distillation”, *International Research Journal of Engineering and Technology*, Vol. 06, Issue 07, July 2019, pp. 1595-1598.
5. **Singh, D.**, Datta, B. (2014). “Optimal Groundwater Monitoring Network Design for Pollution Plume Estimation with Active Sources”, *International Journal of GEOMATE*, Vol. 6, No. 2 (Sl. No. 12), pp. 864-869, Japan.  
[Scopus – Elsevier: DOI: 10.21660/2014.12.3258a, EID: 2-s2.0-84905682497]
6. **Singh, D.**, Singh, R. K. (2013). “Non-Biodegradable Contaminants Transport Modeling with Varying Transmissivity for Aquifer at West Campus HBTI Kanpur”, *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 2, Issue 10, pp. 5731-5740, October 2013

### ***National Journal – 03***

1. Patel, S.K., **Singh, D.**, Kumar, P., Singh, D., (2020). “Physicochemical Parametric Water Quality Index (WQI) Analysis of Gomti River, Lucknow using MDSSS”, *Journal of Indian Chemical Society*, Vol 97, October (A) 2020, pp 1725-1730.
2. Nidhi, V., **Singh, D.**, Devnani, G.L, (2020). “Fly ash mediated epoxy composites: A Review”, *Journal of Indian Chemical Society*, Vol 97, July 2020, pp 1038-1042.  
[Scopus – Elsevier: EID: 2-s2.0-85096984282]
3. Chandra, P., Bajpai, R., **Singh, D.** (2019). “Long Term Management Plan for Pollutant Mass Reduction by Variable Withdrawl Rates in a Confined Aquifer”, *National Journal of Geographical Committee of IWRA (India)*, Vol. 8, No. 2, pp. 39-43, July 2019, ISSN: 2277-1301.

## *International Conference – 31*

1. Patel, S., Devnani, G.L., **Singh, D.** (2021). “Effect of additives and treatment on fly ash based polymer composites”, in International Conference on Advancement in Materials, Manufacturing and Energy Engineering (ICAMME- 2021) during 18<sup>th</sup> -20<sup>th</sup> February, 2021, organized by Department of Materials and Metallurgical Engineering in association with Department of Mechanical Engineering & Energy Centre Maulana Azad National Institute of Technology, Bhopal.
2. Mishra, A., **Singh, D.** (2020). “Assessment of Traffic Noise Pollution Indices in Kanpur City”, published in book of abstract in International Conference on Energy and Environmental Technologies for Sustainable Development (CHEM-CONFLUX20) organized MNNIT Allahabad, pp 139, 14-16 February 2020.
3. Bhadauria, S., **Singh, D.** (2020). “Air Pollution Tolerance Index of Plants along GT Road in Kanpur City, Uttar Pradesh”, published in book of abstract in second ASCE International Conference in India on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE2020), organized at Kolkata, pp 158, 02-04 March 2020.
4. Kumar, P., **Singh, D.** (2019). “An Experimental Investigation of Open Channel Parameters with Rigid Vegetation”, Keynote paper published in proceedings of 8<sup>th</sup> International Groundwater (IGWC 2019) on Sustainable Management of Soil Water Resources, organized at IIT Roorkee, October 21-24, 2019, pp 215- 216, TS8.
5. Mishra, S., **Singh, D.**, Shukla, A. (2019). “Neural Network Modeling of River Ganga along Rishikesh and Kanpur”, published in book of abstract in International Conference on Environment and Society (ICES 2019), organized at HBTU Kanpur, pp 347, 22-23 December 2019.
6. Gupta, R., **Singh, D.**, Prasad, H.J.S. (2019). “Assessment of Groundwater Quality at Pantnagar”, published in book of abstract in International Conference on Environment and Society (ICES 2019), organized at HBTU Kanpur, pp 321, 22-23 December 2019.
7. Mishra, A., **Singh, D.** (2019). “Effect of Heterogeneous Traffic Conditions on Noise Pollution in Kanpur City”, published in book of abstract in International Conference on Environment and Society (ICES 2019), organized at HBTU Kanpur, pp 210, 22-23 December 2019.
8. Nidhi, V., **Singh, D.** (2019). “Adsorptive Removal of Arsenic and Fluoride from Water by using Electrospun Nanofiber”, published in book of abstract in International Conference on Environment and Society (ICES 2019), organized at HBTU Kanpur, pp 190, 22-23 December 2019.
9. Bhadauria, S., **Singh, D.** (2019). “Air Pollution Tolerance Index of Plants along National Highway in Kanpur City, Uttar Pradesh”, published in book of abstract in International Conference on Environment and Society (ICES 2019), organized at HBTU Kanpur, pp 182, 22-23 December 2019.

10. Singh, K., **Singh, D.** (2019). “ Analysis and Mapping of Air Quality in Kanpur City”, International Conference on Emerging Trends in Science, Engineering and Management (ICETSEM 2019), Maharashtra Chamber of Commerce Industries & Agriculture, Senapati Bapat Road, Pune India, pp 19-26, 21<sup>st</sup> July, 2019.
11. Mishra, S., **Singh, D.** (2019). “ Pollution Analysis of River Ganga in Kanpur” International Conference on Emerging Trends in Science, Engineering and Management (ICETSEM 2019), Maharashtra Chamber of Commerce Industries & Agriculture, Senapati Bapat Road, Pune India, pp 27-29, 21<sup>st</sup> July, 2019.
12. Bajpai, R., **Singh, D.** (2019). “Utilization of Industrial Wastes GGBS in Regular Concrete by Material Replacement Technique”, Proceedings of International Conference on Innovative Trends in Civil Engineering for Sustainable Development (ITCSD- 2019), pp. 11-13, 13-15 September 2019, Organised under TEQIP III, National Institute of Technology, Warangal, Telengana.
13. Singh, K., **Singh, D.** (2019). “Application of Geo-spatial Method for Mapping of Air Pollutant”, Proceedings of International Conference on Innovative Trends in Civil Engineering for Sustainable Development (ITCSD- 2019), pp. 333-335, 13-15 September 2019, Organised under TEQIP III, National Institute of Technology, Warangal, Telengana.
14. Mishra, S., **Singh, D.** (2019). “Surface Water Quality Assessment of Ganga River with Reference to Water Quality Indices”, Proceedings of International Conference on Innovative Trends in Civil Engineering for Sustainable Development (ITCSD- 2019), pp. 336-337, 13-15 September 2019, Organised under TEQIP III, National Institute of Technology, Warangal, Telengana.
15. Chandra, P., Bajpai, R., **Singh, D.** (2019). “Optimal Scheduling of Pumping Well Discharge to Minimize Contaminant Mass in Confined Aquifer”, Abstract published in proceedings of International Conference on Engineering Science & Advance Research, ESAR -19 organised by Faculty of Engineering & Technology and IEEE-UP Section, Published by Int Jr of Engineering Science & Advance Research (ISSN No. 2395-0730), pp 48, Vol 5, Issue 1, March 13-15, 2019.
16. Gangwar, S., **Singh, D.** (2019). “Bio Concrete used as Self-Healing Concrete”, Abstract published in proceedings of International Conference on Engineering Science & Advance Research, ESAR -19 organised by Faculty of Engineering & Technology and IEEE-UP Section, Published by Int Jr of Engineering Science & Advance Research (ISSN No. 2395-0730), pp 61, Vol 5, Issue 1, March 13-15, 2019.
17. Gangwar, S., Praveen, S., **Singh, D.** (2018). “A Concise Review of Adverse Effect of Industrial Discharge on Environmental Health”, proceedings of International Conference on Engineering Science & Advance Research, ESAR -18 organised by Faculty of Engineering & Technology and IEEE-UP Section, Published by Int Jr of Engineering Science & Advance Research (ISSN No. 2395-0730) Vol 4, Issue 1, 2018.
18. Singh, Tarushi, **Singh, D.** (2017). “Air Quality Modeling of PM10, NO2 and SO2 using Soft Computing Techniques for Kanpur City”, proceedings of International Conference on Recent Trends in Civil Engineering and Water Resources Engineering,

- RTCWRE-2017 at H.M. Institute of Technology & Science, Hyderabad, 10-11 August, 2017, pp165-169.
19. Zahra, Tahzeeb, **Singh, D.** (2017). “A Multivariate Statistical Approach for Groundwater Quality Assessment of Rae Bareli District, U.P., India ”, proceedings of International Conference on Recent Trends in Civil Engineering and Water Resources Engineering, RTCWRE-2017 at H.M. Institute of Technology & Science, Hyderabad, 10-11 August, 2017, pp170-174.
  20. Srivastava, Toshi, **Singh, D.** (2017). “Artificial Intelligence Based Prediction Models for Solid Waste Generation in Kanpur City, Uttar Pradesh”, proceedings of International Conference on Recent Trends in Civil Engineering and Water Resources Engineering, RTCWRE-2017 at H.M. Institute of Technology & Science, Hyderabad, 10-11 August, 2017, pp175-177.
  21. Gangwar, Sumit, **Singh, D.** (2017). “Dynamic Groundwater Monitoring Network Design for Aquifers with Varying Thickness”, proceedings of International Conference on Recent Trends in Civil Engineering and Water Resources Engineering, RTCWRE-2017 at H.M. Institute of Technology & Science, Hyderabad, 10-11 August, 2017, pp178-181.
  22. Tyagi, M., **Singh, D.** (2017). “Study of Biodegradable Contaminants Transport in Groundwater”, abstract in proceedings of International Conference on Modelling of Environmental and Water Resources Systems ICMEWRS 2017, at HBTU Kanpur, March 24-26, 2017.
  23. Kumar, D., **Singh, D.** (2017). “Contingent Valuation to Find Environment Cost at Highway Section, Kanpur”, abstract in proceedings of International Conference on Modelling of Environmental and Water Resources Systems ICMEWRS 2017, at HBTU Kanpur, March 24-26, 2017.
  24. Agrahari, S.K., **Singh, D.** (2017). “Modelling and Optimization of Electro-coagulation Process for Removal of Cr (VI) and TSS from Tannery Effluent”, abstract in proceedings of International Conference on Modelling of Environmental and Water Resources Systems ICMEWRS 2017, at HBTU Kanpur, March 24-26, 2017.
  25. Gautam, K., A., **Singh, D.** (2016). “Optimal Design of Air Quality Monitoring Network for Multiple Pollutants”, in proceedings of International Conference on Emerging Trends in Civil Engineering, KNIT Sultanpur, October 21-22, 2016, pp 248-253.
  26. Agarwal, N., Kumar, P., Sachan, G., Abhishek, Das, S., **Singh, D.**,Maurya, A.K. (2014). “Analysis of Vehicular Headway Distribution in Urban Area”, in proceedings of International Conference on Recent Trends and Challenges in Civil Engineering, MNNIT Allahabad, India, December 12-14, 2014.
  27. Awasthi, P., Sharma, N., Sahu, K., Mirza, M.A., Dey, S., **Singh, D.**, Maurya, A.K. (2014). “Study of Vehicular Speed Distribution under Mixed Traffic Conditions”, in proceedings of International Conference on Recent Trends and Challenges in Civil Engineering, MNNIT Allahabad, India, December 12-14, 2014.
  28. **Singh, D.**, Srivastava, A. (2012). “Groundwater Flow and Transport Modeling of Allen Forest, Kanpur”, in proceedings of International conference “IC-BEST 2012:

- International Conference on Benchmark in Engineering, Science & Technology” B.D. College of Engineering, Sevagram, Wardha, India, 7-8 September, 2012 (in CD).
29. **Singh, D.,** Datta B. (2012). “Linked Optimization Model for Groundwater Monitoring Network Design”, in proceedings of International conference "ENSURE 2012: Environmentally Sustainable Urban Ecosystems" IIT Guwahati, Assam, India February 24-26, 2012 (in CD).
  30. **Singh, D.,** Datta, B. (2010). “Sequential Characterization of Contaminant Plumes using Designed Monitoring Network”, in proceedings of International conference on IAHR-APD 2010 held at Auckland, New Zealand 21-24 February 2010 (in CD).
  31. **Singh, D.,** Parmar, D.L., and Kumar, N., (2003). “Challenges for sustainable development in the next millennium”, accepted for poster presentation, in International conference on Energy and Environment Technologies for Sustainable Development, Oct. 8-10, 2003, MNNIT, Jaipur, India.

### ***National Conference – 13***

1. Nidhi, V., **Singh, D.** and Devnani, G.L. (2020). “Fly ash mediated epoxy composites: A Review”, Proceedings of National Conference on Nanotechnology & Environment (NCNE- 2020) organized by Dept of Chemical Engineering, NIT Raipur during 13-14 February, 2020, pp. 25.
2. Tyagi, M., **Singh, D.** (2020). “Effect of Microorganisms on Biodegradable Contaminant Transport in Groundwater”, Book of Abstract for National Conference on ‘Issues & Challenges in Water Treatment and Allied Research for Sustainable Environment – WATER 2020’, organized by IIT Guwahati during 23-25 January 2020, pp. 38.
3. Singh, K.P., **Singh, D.** (2019). “Experimental Study of Fluoride Removal from Drinking Water through the Use of Activated Charcoal in Modified Soalr Still”, Proceedings of Abstract for National Conference on Sustainable and Recent Innovation in Science and Engineering (SUNRISE- 2019), ISBN No. 978-93-5391-715-9 pp. 33, 28-29 November 2019, Organised by Motihari College of Engineering, Motihari, Bihar.
4. Bajpai, R., **Singh, D.** (2019). “Use of Blast Furnace Slag in Partial Replacement as a Cementitious Binders for Concrete”, Proceedings of Abstract for National Conference on Sustainable and Recent Innovation in Science and Engineering (SUNRISE- 2019), ISBN No. 978-93-5391-715-9 pp. 31, 28-29 November 2019, Organised by Motihari College of Engineering, Motihari, Bihar.
5. Mishra, S., **Singh, D.** (2019). “Neural Network Modeling of River Ganga along Rishikesh and Kanpur”, Proceedings of Abstract for National Conference on Sustainable and Recent Innovation in Science and Engineering (SUNRISE- 2019), ISBN No. 978-93-5391-715-9 pp. 32, 28-29 November 2019, Organised by Motihari College of Engineering, Motihari, Bihar.
6. Chandra, P., Bajpai, R., **Singh, D.** (2019). “Long Term Management Plan for Pollutant Mass Reduction by Variable Withdrawl Rates in a Confined Aquifer”, in proceedings of National Conference on Water Resources Management, WRM 2019

organised by Dept. of Civil Engineering, Aligarh Muslim University (AMU), 15-16 March, 2019

7. **Singh, D.**, Vishwakarma, R.D. (2017). “Modelling of Heat and Solute Transport in Groundwater”, published in 33rd National Convention of Environmental Engineers on Status of Technological Advancement to meet the Environmental Norms for Indian Mining and Allied Industries, organized by The Institution of Engineers (India), IIT (ISM) Dhanbad, 24-25 August, 2017, pp 111-123.
8. Zahra, T., **Singh, D.** (2017). “A Multivariate Statistical Approach for Groundwater Quality Assessment of Rae Bareli District, UP, India”, published in 33rd National Convention of Environmental Engineers on Status of Technological Advancement to meet the Environmental Norms for Indian Mining and Allied Industries, organized by The Institution of Engineers (India), IIT (ISM) Dhanbad, 24-25 August, 2017, pp 124-129.
9. Singh, T., **Singh, D.** (2017). “Statistical Modeling Approach for PM10 Concentration at Kanpur City, Uttar Pradesh”, published in 33rd National Convention of Environmental Engineers on Status of Technological Advancement to meet the Environmental Norms for Indian Mining and Allied Industries, organized by The Institution of Engineers (India), IIT (ISM) Dhanbad, 24-25 August, 2017, pp 124-129.
10. **Singh, D.**, Maurya, A.K., Sarda, S.K., Budhkar A.K. (2014). “Review of Technologies Used for Green Road Design and Construction”, National Conference on GEO-Environmental Issues and Sustainable Urban Development (GEN-2014), October 11-12, 2014 held at MNNIT Allahabad, India.
11. **Singh, D.**, Maurya, A.K. (2004). “Application of cellular automata in hydrology”, in proceeding of National Conference on HYDRO-2004, pg. 319-323.
12. **Singh, D.**, Parmar, D.L., Anupama and Singh, S. (2003). “Financial viability of BOT project”, In proceeding of National Conference on Advances in Civil Engineering: Perspective of Developing Countries, Vol. 2, Pg. 669-676.
13. **Singh, D.**, Khosa, R. (2003). “Forecasting of subdivision – wise monsoon rainfall modeling using artificial neural networks”, in proceeding of National Conference on Advances in Civil Engineering: Perspective of Developing Countries, Vol. 2, Pg. 458-467.