

August 2021

Publications

Aghilesh K, Ajay Kumar, Smriti Agarwal, Manoj Chandra Garg, and Himanshu Joshi (2021). Use of artificial intelligence for optimizing biosorption of textile wastewater using agricultural waste. *Environmental Technology*. (I.F. 3.247). DOI: 10.1080/09593330.2021.1961874

Kumar*, S, Kumar, M, Chandola, V K, Kumar, V Saini, R K, Pant, N, Kumari, N, Ankur Srivastava, A, Singh, S, Singh, R, Krishan, G, Indwar, S, Kumar, S, Yadav, B K, Maurya, N S, Chaudhary, A (2021) “Groundwater quality issues and challenges for drinking and irrigation uses in central Ganga basin dominated with rice-wheat cropping system” *Water* (Accepted), (IF=2.5) Q1

Yadav*, B. K. and Telila F. K. (2020) “Delineating Potential Groundwater Recharge Zones in the Haramaya Watershed of Ethiopia using GIS-based Multi-criteria Assessment” *E-Journal of Geohydrology*, Vol 2 (1), 65-79.

Ravi Kumar Guntu and Ankit Agarwal*. “Disentangling increasing compound extremes at regional scale during Indian summer monsoon”, *Scientific Reports*, 11, 16447 (2021). <https://doi.org/10.1038/s41598-021-95775-0>

Ravikumar K, Khosa R, Agarwal A* (2021) Metagame analysis of Cauvery River dispute incorporating interannual variability in virgin runoff potential of the basin. *Eur Phys J B* 94:172. <https://doi.org/10.1140/epjb/s10051-021-00174-z>

Lectures delivered

Prof. Ankit Agarwal was invited to deliver a lecture on “Multi-scale approaches in forecasting extreme floods and their global connections” at the RISK-KAN lecture series. The Knowledge-Action Network on Emergent Risks and Extreme Events is a joint initiative of the Future Earth, IRDR, WCRP, and WWRP programs <https://www.risk-kan.org/>

Prof. Bhaskar Jyoti Deka delivered a talk on “Wastewater collection, treatment & Disposal” under the training program on Water, Sanitation, and Hygiene (WASH) organized by the Department of WRD&M, IIT Roorkee and Indian Technical and Economic Cooperation (ITEC), Ministry of External Affairs, Govt. of India, 25 August 2021.

Prof. Bhaskar Jyoti Deka delivered a talk on “Water treatment processes and disinfectant requirements” organized by the Department of WRD&M, IIT Roorkee, and Indian Technical and Economic Cooperation (ITEC), Ministry of External Affairs, Govt. of India, 26 August 2021.

Book chapter

Bohra, V., Ahamad, K. U., Kela, A., *Vaghela, G.*, Sharma, A., * Deka, B. J.** (2021). Energy and resources recovery from wastewater treatment systems. In Vinay Kumar Tyagi, Manish Kumar, Alicia K.J. An & Zeynep Cetecioglu (Eds.), *Clean Energy & Resource Recovery: Wastewater Treatment Plants are Biorefineries. * Elsevier (In press).

Award

Prof. Ankit Agarwal has been appointed as an Associate Editor for Hydrological Sciences Journal (Q1, I.F.=3.787) initially for the three-year duration.