

September 2021

Publications

Kumar, A., Agarwal, S., Garg, M. C., & Joshi, H. (2021). Use of Artificial Intelligence for Optimizing Biosorption of Textile Wastewater using Agricultural waste. *Environmental Technology*, 1-35. <https://doi.org/10.1080/09593330.2021.1961874>

Thomas, A, Singh, V., Yadav, B. K. (2021). Agricultural Water Management and Groundwater Recharging Using Vadose Zone Modelling. In: Jha R., Singh V.P., Singh V., Roy L., Thendiyath R. (eds) *Water Resources Management and Reservoir Operation*. Water Science and Technology Library, (107) 277-288. Springer, Cham. https://doi.org/10.1007/978-3-030-79400-2_23

Guo, J., Wong, P. W., **Deka, B. J.**, Zhang, B., Jeong, S., & An, A. K. (2021). Investigation of fouling mechanism in membrane distillation using in-situ optical coherence tomography with green regeneration of fouled membrane. *Journal of Membrane Science*, 119894. <https://doi.org/10.1016/j.memsci.2021.119894> (Q1, Impact Factor 8.742)

Projects

The project proposal "Co-creating Sustainable Agri-Water Use in the Hindon Sub-Basin – A Multi-Scale Participatory Approach" submitted by Prof. Brijesh K Yadav has been approved by the DST-NWO (Netherlands) for five years

Lectures delivered

Prof. Brijesh K Yadav delivered a talk on “Geo-sequestration of CO₂ in saline Aquifers” on September 21, 2021, online organized by G B Pant University of Agriculture and Technology

Book Chapter

Simon, M. and Joshi, H. (2021) "Story of the Ganga River: Its Pollution and Rejuvenation" in *Riverine Systems: Understanding the Hydrological, Hydrosocial and Hydroheritage connections*. Mukherjee, A. (ed), Springer & Capital. <https://www.springer.com/gp/book/9783030870669>

Attending the meeting as a Technical expert

Prof. Himanshu Joshi was invited as a technical expert for evaluation in **Grand Challenge Call-6**: Technology-based innovative interventions aimed at Water Conservation in Karnataka, for prototyping, testing, and scaling up in Karnataka was convened under the chairpersonship of Managing Director, Karnataka Innovation and Technology Society (KITS) Department of Electronics, IT, Bt and S&T on 22.09.2021 (Wednesday) at 02.30 pm (by Video Conference).

Prof. Himanshu Joshi attended Planning cum Consultation Workshop for CSE NMCG initiative on 'Making water sensitive cities ' dated: 2nd July 2021 (Friday) Time: 11.00 am to 1.00 pm, as an Invited expert by Centre for Science & Environment.

International Conference

Abinesh Ganapathy, Ravi Kumar Guntu, Ugur Ozturk, Bruno Merz, Ankit Agarwal. "Multi-timescale SST-Streamflow connectivity: A complex network approach" poster presentation at "WCRP workshop on the attribution of multi-annual to decadal changes in the climate system" held online from September 22-24, 2021. <https://wcrp-epesc.sciencesconf.org/data/363896.pdf>

Ashish Manoj J, Ravi Kumar Guntu, Ankit Agarwal. "Investigating Compound Soil Moisture – Precipitation Coupling Over India", oral presentation at World Climate Research Program Workshop on Attribution of Multi-annual to Decadal Changes in the Climate System, 22-24 September 2021 <https://wcrp-epesc.sciencesconf.org/data/363768.pdf>

Events

Prof. Dr. Ir. Majid Hassanijadeh Emeritus Professor of Hydrogeology at the Faculty of Geosciences of Utrecht University and Senior Professor at Stuttgart Center for Simulation Science will deliver a lecture on: "Numerical studies of colloid and virus transport in unsaturated soil and groundwater" on 15 September 2021.