

May 2021

Publications

Saurav Raj, Roopam Shukla, Ricardo M. Trigo, Bruno Merz, Maheswaran Rathinasamy, Alexandre M. Ramos, **Ankit Agarwal*** (2021). Ranking and Characterization of Precipitation Extremes for the past 113 years for Indian western Himalayas. International Journal of Climatology. /10.1002/joc.7215

Bhargabnanda Dass, Abhishek, **Sumit Sen**, Vargish Bamola, Anita Sharma, Debashish Sen. 2021. Assessment of spring flows in Indian Himalayan micro-watersheds - A hydrogeological approach. Journal of Hydrology. 598. <https://doi.org/10.1016/j.jhydrol.2021.126354>

Dubey, S., Sharma, A., Panchariya, V. K., Goyal, M. K., Surampalli, R. Y., & Zhang, T. C. (2021). Regional sustainable development of renewable natural resources using Net Primary Productivity on a global scale. Ecological Indicators, 127, 107768.

Durga Prasad Panday, Rakesh Khosa, Rathinasamy Maheswaran, K Ravikumar, and **Ankit Agarwal** (2021). Game-Theoretic Based Modelling of Krishna Waters Dispute - Equilibrium Solutions by Metagame Analysis. European Physics Journal-B <https://doi.org/10.1140/epjb/s10051-021-00107-w>

V. Sharma, H. Joshi and M.J. Bowes (2021). A Tale of Two Rivers: Can the Restoration Lessons of River Thames (Southern UK) be Transferred to River Hindon (Northern India)? Water, Air, & Soil Pollution, <https://doi.org/10.1007/s11270-021-05152-w>.

Taha, A. H., Joshi, H., Garg, M. C., & Manhee, H. K. (2021). Case Study of Evaluation RO Desalination Systems for Potable Water in Safwan, Iraq. Journal of Geoscience and Environment Protection, 9, 158-181.

Simon M, Joshi H (2021) “A review on green technologies for the rejuvenation of polluted surface water bodies: Field-scale feasibility, challenges, and future perspectives., Journal of Environmental Chemical Engineering, <https://doi.org/10.1016/j.jece.2021.105763> (IF=4.3) Q1

Book Chapter

Monika Simon and Himanshu Joshi (2021). Story of the Ganga River: Its Pollution and Rejuvenation. Riverine Systems: Understanding the Hydrological, Hydrosocial, and Hydro-heritage Dynamics. Edited by Abhijit Mukherjee. Capital Publishing Company

International conference

Hinge, G., & Sharma, A. (2021). Comparison of wavelet and machine learning methods for regional drought prediction (No. EGU21-218). EGU General Assembly 2021.

Vaghela, G., Guo, J., **Deka, B. J.***, Title: Green chemical pretreatment of dissolved algal organic matters for efficient seawater desalination, International Conference on “Ecosystem Restoration for Resilience and Sustainability: Living with nature”.

Awards and achievements

Mr. Ravi Kumar Guntu (Ph.D. candidate) has been awarded the prestigious Prime Minister's Research Fellowship (PMRF).

Mr. Ravi Kumar Guntu (Ph.D. candidate) has been awarded the prestigious DAAD fellowship. He will be visiting GFZ German Research Centre for Geosciences, Potsdam, Germany, from October 2021 to September 2022 for his Ph.D. work with Professor Bruno Merz as the host.

Ashish Manoj J (Master Ist year) received the Swiss Research Scholarship 2021. Ashish will be visiting Switzerland to work on the topic of compound extremes.

Mr. Shubham Tiwari (Ph.D. Scholar) has received a scholarship to attend Indo-German Summer School on "Sustainable Water Management at the Saltwater- freshwater Interface" 2021 (12 July to 23 July 2021).

Prof. Himanshu Joshi is a Technical Expert for Technology Development Board (DST), for technology evaluation for commercialization support. Prof. Himanshu Joshi attended the following meetings pertaining to the subject: Screening committee meetings of M/S Swajal Water Pvt. Ltd., Gurgaon, Haryana on March 19, 2021, and April 9, 2021.

Prof. Himanshu Joshi is a Technical Expert for the evaluation of technologies under TIDES grant schemes at IITR Incubator.

Prof. Himanshu Joshi attended (a) the Assessment meeting for new applications under TIDES 2.0 grant on March 15 and July 7, 2020; and the TIDES progress review meeting on Feb 12, 2021.

Invited Talk and Training Course

1 Prof Brijesh K Yadav delivered a talk on "Geo-sequestration of CO₂ in Deep Saline Aquifers: An efficient measure for curbing GHG emission" on May 17, 2021, during the Five Days Faculty Development Program on "Recent Advancement in Environmental Sustainability and Conservation Strategies" organized by Amity University, Noida, Uttar Pradesh

2. Prof Brijesh K Yadav delivered an expert talk on "Engineered Bioremediation Techniques of Polluted Land and Groundwater sites" during the National webinar on groundwater contamination and remediation organized by the M S University of Baroda, on May 06, 2021.