

July 2021

Publications

Umar, S, Lone, M.A., Goel, N.K. (2021), 'Modeling of annual rainfall extremes in the Jhelum River basin, Northwestern Himalayas', Sustainable Water Resources Management, 7:59 <https://doi.org/10.1007/s40899-021-00539-3>.

Ray, L. K., and Goel, N.K. (2021), 'Spatio-temporal change in rainfall over five different climatic regions of India', Journal of Water and Climate Change, June 2021, <https://doi.org/10.2166/wcc.2021.052>

Umar, S, Lone, M.A., Goel, N.K. (2020), '[Modeling of peak discharges and frequency analysis of floods on the Jhelum river, North-Western Himalayas](#)', Modeling Earth Systems and Environment, 1-13. DOI:[10.1007/s40808-020-00957-w](https://doi.org/10.1007/s40808-020-00957-w)

Daniel, Denzil, Anandhi, Aavudai, Sen, Sumit. 2021. Conceptual Model for the Vulnerability Assessment of Springs in the Indian Himalayas. Climate 9(8), 121. <https://doi.org/10.3390/cli9080121>

Guo, J.*, Deka, B. J.*, Wong, P. W., Sun, J., & An, A. K. (2021). Fabrication of robust green superhydrophobic hybrid nanofiber-nanosphere membrane for membrane distillation (accepted, *: these authors contributed equally to this work), *Desalination (Q1, Impact factor: 9.501)*.

vyas, Jitendra K., Muthiah Perumal, and Tommaso Moramarco. "ENTROPY BASED RIVER DISCHARGE ESTIMATION USING ONE-POINT VELOCITY MEASUREMENT AT 0.6 D." Water Resources Research: e2021WR029825. <https://doi.org/10.1029/2021WR029825>

Judy P. Che-Castaldo, Rémi Cousin, Stefani Daryanto, Grace Deng, Mei-Ling E. Feng, Rajesh K. Gupta, Dezhi Hong, Ryan M. McGranaghan, Olukunle O. Owolabi, Tianyi Qu, Wei Ren, Toryn L. J. Schafer, **Ashutosh Sharma**, Chaopeng Shen, Mila Getmansky Sherman, Deborah A. Sunter, Bo Tao, Lan Wang & David S. Matteson, "Critical Risk Indicators (CRIs) for the electric power grid: a survey and discussion of interconnected effects", Environment Systems and Decisions (2021). <https://doi.org/10.1007/s10669-021-09822-2>

Invited Talk and Training Course

Public Talk on 7th July 2021 at Aligarh Muslim University by Prof. Sumit Sen on "Prioritization of Land Parcels for Capturing Rainwater: Two Case Studies of Contrasting Biogeographic Regions." The webinar was organized under the nationwide Government campaign, 'Jal Shakti Abhiyan: Catch the Rain Campaign'. <https://www.amu.ac.in/news/2021/07/08/jal-shakti-abhiyan-at-department-of-physics>

Public Talk on 25th May 2021 by Mr. Bhargabnanda Dass & Prof. Sumit Sen at the State Level Stakeholders' Consultation on Springshed Management for Nagaland.

Public Talk on 29th July 2021 by Mr. Denzil Daniel & Prof. Sumit Sen at the Stakeholder' Consultation Workshop on Springshed Management for Garhwal Region of Uttarakhand.

Mr. Ravi Kumar Guntu (PMRF Fellow) delivered an expert lecture on “Data-Driven Modelling: Soft computing techniques in Water Resources Engineering Using MATLAB®” on July 01, 2021, during the Two-week Faculty Development Program on “Smart Cities Enabling Technologies: A Step towards New India (Phase-II)” (Online), June 21-July 3, 2021, organized by BVM Engineering College, Gujarat.

Projects

Prof. Deka (Co-PI)

"Capacity development program on-site suitability mapping for managed aquifer recharge (MAR) under varying climatic conditions using remote sensing and machine learning-based hydrological modeling tools", (as Co-PI) with the joint team of IIT Roorkee, NIH India, Kindai University Japan, and Pusan National University (PNU) South Korea. Funding agency: APN Capacity Development Programme (CAPaBLE) program.

Awards and achievements

Prof. Ankit Agarwal has joined the American Meteorological Society as an Associate Editor for Weather, Climate, and Society journal.

International conference

Apurv Vishwakarma, Vijaykumar Bejagam, & **Ashutosh Sharma**, “A Review on the influence of droughts on Ecosystems and Ecosystem Services (ES)”, International Conference on Ecosystem Restoration for Resilience and Sustainability: Living with nature (2021) (World environment Day- Launch of UN decade for Ecosystem Restoration), June 5th- June 7th, 2021.