

July 2020

Publications

Gupta, V. and Jain, M. K.: Unravelling the teleconnections between ENSO and dry/wet conditions over India using nonlinear Granger causality, *Atmospheric Res.*, 247, 105168, doi:10.1016/j.atmosres.2020.105168, 2021.

Singh, R. K., and Jain, M. K.: Reappraisal of hydrologic alterations in the Roanoke River basin using extended data and improved RVA method, *Int. J. Environ. Sci. Technol.*, doi:10.1007/s13762-020-02817-7, 2020.

Guntu, Ravi Kumar, Rathinasamy Maheswaran, Ankit Agarwal, and Vijay P. Singh. "Accounting for temporal variability for improved precipitation regionalization based on self-organizing map coupled with information theory." *Journal of Hydrology* (2020): 125236. <https://doi.org/10.1016/j.jhydrol.2020.125236>

Shashi Ranjan, Brijesh Kumar Yadav & Himanshu Joshi (2020). Development of nZVI-Pumice / Zeolite Composites for Effective Removal of Arsenic (III) from Aqueous Solution. *Journal of Hazardous, Toxic, and Radioactive Waste*, 24(3), 1–10. [https://doi.org/10.1061/\(ASCE\)HZ.2153-5515.0000507](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000507)

Ajay Kumar, Himanshu Joshi, Anil Kumar (2020) " Remediation of Arsenic by Metal/Metal Oxide Based Nanocomposites/Nanohybrids: Contamination Scenario in Groundwater, Practical Challenges, and Future Perspectives" in *Separation and Purification Review*. [<https://doi.org/10.1080/15422119.2020.1744649> | <https://doi.org/10.1080/15422119.2020.1744649>] (Q1, IF- 5.324).

Conference proceeding

Ravi Kumar, Guntu, and Ankit Agarwal (2020). Standardized Variability Index (SVI): A multiscale index to assess the variability of precipitation. JpGU-AGU Joint Meeting 2020, Chiba, Japan
<https://confit.atlas.jp/guide/event/jpgu2020/subject/AAS14-P22/class?cryptoId=>

Patent

Himanshu Joshi, Anil Kumar, Ajay Kumar (2020). " Synthesis of iron oxide nanohybrids (Maghemite Phase) employing raw spent wash from distillery industry as a precursor material" Indian Patent No. 340010. (Granted)

Project

Co-PREPARE: Collaborative Indo-German PProject on Estimating and Predicting Natural Hazards in the Himalayan REgion (PI: Ankit Agarwal; Co-PI: Dean International)