

November 2020

Publications

Pal, P., Pal, A., Nakashima, K. and **Yadav, B.K.**, 2020. Applications of Chitosan in Environmental Remediation: A Review. *Chemosphere*, p.128934.

<https://doi.org/10.1016/j.chemosphere.2020.128934>

Setti, S.; Maheswaran, R.; Sridhar, V.; Barik, K.K.; Merz, B.; **Agarwal, A.** Inter-Comparison of Gauge-Based Gridded Data, Reanalysis and Satellite Precipitation Product with an Emphasis on Hydrological Modeling. *Atmosphere* 2020, *11*, 1252.

<https://doi.org/10.3390/atmos11111252>

Thomas, Anooja, Brijesh Kumar Yadav, and Jiří Šimůnek. "Root water uptake under heterogeneous soil moisture conditions: an experimental study for unraveling compensatory root water uptake and hydraulic redistribution." *Plant and Soil* (2020): 1-15.

<https://doi.org/10.1007/s11104-020-04738-3>.

Vyas, J.K.; Perumal, M.; Moramarco, T. Discharge Estimation Using Tsallis and Shannon Entropy Theory in Natural Channels. *Water* 2020, *12*, 1786.

<https://www.mdpi.com/2073-4441/12/6/1786>

Gupta, V., **Jain, M.K.** and Singh, V.P. Closure to "Multivariate Modeling of Projected Drought Frequency and Hazard over India". *J. Hydrologic Engineering, ASCE*, 26(2), 07020025, 2021.

[https://doi.org/10.1061/\(ASCE\)HE.1943-5584.0001893](https://doi.org/10.1061/(ASCE)HE.1943-5584.0001893)

Guntu, Ravi Kumar, and **Ankit Agarwal.** "Investigation of Precipitation Variability and Extremes Using Information Theory." (2020).

<https://sciforum.net/manuscripts/8115/manuscript.pdf>

AGU Poster Presentations (DoH contribution)

Authors: Ravi Kumar Guntu, Ankit Agarwal

Title: Spatial extent of concurrent extremes over India and its teleconnection to climate indices

Link: <https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/667620>

Date: Tuesday, 15 December 2020|| **Time:** 17.30-10.30

Authors: Karisma Yumnam, Ravi Kumar Guntu, A. Kumar, Ankit Agarwal

Title: Emerging Spatiotemporal Patterns and Trends of Extremes in Indian Summer Monsoon

Abstract ID: 725144 **Final Paper Number:** GC084-0008

Time Schedule: 14th December 2020 4:00-20:59 PST

Session Number and Title: GC084: Extreme Events, Climate Change, and Urban Systems II Posters

Link for poster: <https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/725144>

Authors: Saurav Raj (IIT Roorkee), Dr. Ankit Agarwal (IIT Roorkee)

Title: Accounting magnitude, spatial extent, and duration for ranking of extreme precipitation events in Indian Western Himalayan

Link: agu2020fallmeeting-agu.ipostersessions.com/Default.aspx?s=9D-99-83-35-99-B6-4D-36-E0-E1-60-BD-01-FF-37-25

Time of presentation: 10pm-11pm IST, Dec 15 2020

Authors: Ankit Agarwal, Norbert Marwan, Rathinasamy Maheswaran, Ugur Ozturk, Jürgen Kurths, and Bruno Merz

Title: Optimal Design of Hydrometric Station Networks Based on Complex Network Analysis

Final Paper Number: NG002-0016|| Presentation Type: Virtual Poster Session

Session Date and Time: Monday, 14 December 2020; 04:00 - 20:59 PST

Session Number and Title: NG002: Advances in Data Assimilation, Predictability, and Uncertainty Quantification II Posters PST