

June 2021

Publications

Sushkova, S., Minkina, T., Tarigholizadeh, S., Rajput, V., Fedorenko, A., Antonenko, E., Chernikova, N., **Yadav, B. K.**, Batukaev, A. (2021) Soil PAHs contamination effect on the cellular and subcellular organelle changes of *Phragmites australis* Cav., [*Environmental Geochemistry and Health*](#), vol 43, 2407-2421, (IF 3.662) Q1

Kumar, S., Kumar, V., Saini, R. K., Pant, N., Singh, R., Singh, A., Kumar, S, Singh, S., **Yadav, B. K.**, Krishan, G., Raj, A. Maurya N.S., Kumar, M. (2021) Floodplains Landforms, Clay Deposition and Irrigation Return Flow govern Arsenic Occurrence, Prevalence, and Mobilization: A geochemical and isotopic study of the Mid-Gangetic Floodplains. *Environmental Research* (Accepted) (IF= 5.715) Q1

Durga Prasad Panday, Rakesh Khosa, Rathinasamy Maheswaran, K Ravikumar, and **Ankit Agarwal** (2021). Game theoretic-based modeling of Krishna waters disputes Equilibrium solutions by hypergame analysis (2021). *European Physics Journal-B*. 10.1140/epjb/s10051-021-00135-6

Pinki Sharma, **Himanshu Joshi**, Vimal Chandra Srivastava, Seema Singh & Shang-Lien Lo (2021): Treatment of biologically treated distillery spent wash employing electrocoagulation and reverse-osmosis treatment train, *Environmental Technology*, DOI: 10.1080/09593330.2021.1946596

Sharma, V. and **Joshi, H.** (2020) ‘Restoration scenario analysis of Hindon River in India using water quality model, WASP8’, *Int. J. Environment and Health*, Vol. 10, No. 2, pp.160–177.

Invited Talk and Training Course

Prof. Brijesh K Yadav delivered a talk on “Application of Numerical Techniques in Groundwater Modelling” on June 15, 2021, during the Five Days Faculty Development Program on “Groundwater Modelling using MODFLOW (Video Conferencing), June 14-18, 2021, organized by NIH Roorkee

Prof. Brijesh K Yadav chaired the technical session ‘Water, Environment and Health’ during the International e-Conference on “Water Source Sustainability” conducted by the Department of Water Resources Development & Management and the Indian Water Resources Society (IWRS) from June 18-20, 2021.

Awards and achievements

Aniruddha Saha(Team Lead), Aniket Chandra, Babita Malakar, and Shrishti Sharma have secured a spot in the winners' category under the guidance of Prof D S Arya, in MAPATHON organized jointly by ISRO, IIT-B, AICTE. The team had mapped the Urban Sprawl and Groundwater change of Ludhiana District over two time periods- to explain the groundwater change over time due to Urbanisation.

Best paper presentation award: **Vaghela, G.**; Guo, J.; **Deka, B. J.*** Green chemical pretreatment of dissolved algal organic matters for efficient seawater desalination. International Conference on “Ecosystem Restoration or Resilience and Sustainability:

Living with nature” (World Environment Day-Launch of UN decade for Ecosystem Restoration), 5-7 June 2021.