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Area of Interest: Climate Change Impacts on Water Resources, Agricultural and Energy sectors. Adaptation to Climate Change, Water Resources System Modeling, Floods modeling and Drought assessments, Snow and Glaciers assessment using GIS and Remote Sensing tools.

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Publication:

1. **Khattak MS**, Babel MS, Sharif M (2017). **Global climate model for projecting future climate changes over Upper Indus River Basin**. Pakistan Journal of Agriculture, Agricultural Engineering and Veterinary Sciences. Sindh Agriculture University, Tandojam (In Press).
2. Jamil A, Afzal MA, **Khattak MS**, Feroz S (2017). **Neutralization of acidic industrial waste water using four different neutralizers** . Journal of Pakistan Institute of Chemical Engineers. Vol 45(1).
3. **Khattak MS**, Barkatullah, Ayesha A, Sharif M, Jamil A, Babel MS (2017). **Impacts of Climate Change on Crop Water Requirement under Multi - Representative Concentration Pathways during mid century: A Case Study of D. I. Khan**. Journal of Engineering and Applied Sciences, University of Engineering and Technology, Peshawar. Vol 36 (1): 13-20
4. Jamil A, Afzal MA, **Khattak MS**, Ishaq A (2017). **Treatment of acidic and lead contaminated waste water from an automotive battery production plant**. Journal of Pakistan Institute of Chemical Engineers. Vol 45(1).
5. Ali S, Ajmal M, **Khattak MS**, and Shah SU (2017). **Assessment of precipitation trends in Gilgit Baltistan (Pakistan) for the period 1980–2015: an indicator of climate change**. Journal of Himalayan Earth Sciences Volume 50 (1A): pp. 66-75

6. Ali S , **Khattak MS** , Khan D , Sharif M , Hamad K , Asmat U , Malik A (2016). **Predicting Future Temperature and Precipitation over Pakistan in the 21st Century.** Journal of Engineering and Applied Sciences, University of Engineering and Technology, Peshawar. Vol 35 (2): 13-20.
7. **Khattak MS**, Anwar F, Saeed TU, Sharif M, Sheraz K (2016). **Floodplain Mapping Using HEC-RAS and ArcGIS: A Case Study of Kabul River.** (IF= 0.367), Arabian Journal of Science and Engineering 41 (4) :pp 1375-1390.
8. Asif M, Akbar G, Ahmad MM, **Khattak MS** (2016). **Impact of Rod Kohis Improvement on water Conveyance and wheat Yield.** Journal of Himalayan Earth Sciences. Vol 49 (1): pp 110-116.
9. Khan MJ, Pacha G, **Khattak MS**, R. Oad (2015). **Water Distribution of Traditional Karez Irrigation Systems in Afghanistan.** Irrigation and Drainage (IF =0.717), Volume 64, No. 2, pp 169–179.
10. **Khattak MS**, Ali S (2015). **Assessment of Temperature and Rainfall Trend in Punjab province of Pakistan for the period 1961-2014.** Journal of Himalayan Earth Sciences Volume 48, No.2, pp 42-61.
11. **Khattak MS**, Naseem R, Sharif M, Khan MA (2015). **Analysis of streamflow data for trend detection on major rivers of the Indus Basin.** Journal of Himalayan Earth Sciences (X-category) Volume 48, No. 1, pp.99-111.
12. **Khattak MS**, Saadia R, Kalsoom S, Khan MA (2015) **Analysis of Land use Changes using Remote Sensing and GIS Techniques: A Case Study of District Peshawar-Pakistan.** International Journal of Engineering Research & Technology (IJERT),Volume 4 No.10: pp.375-382.
13. Khan MA, Khan TA, **Khattak MS**, Saeed TU, Khan D. (2013) **Evaluation of salinity and sodicity parameters: Bannu SCARP, Pakistan.** International Research Journal of Agricultural Science and Soil Science. Vol.3 (10): 343-352
14. Mullick, RA, **Khattak MS**, Haq, Z (2012). **Considering Environmental flow for Water Resources Management in South Asia.** Journal of Engineering and Applied Sciences, University of Engineering and Technology, Peshawar, Pakistan Vol31(1), January-June 2012: 37-44.
15. **Khattak MS**, Babel MS, Sharif M (2011). **Hydro-metrological trends in the upper Indus river basin in Pakistan.** Climate Research (IF= 2.50),Vol 46 (2): 103-119

16. Malik A, **Khattak MS** (2005). **Irrigation water quality of groundwater in Lachi Valley, District Kohat**. Journal of Engineering and Applied Sciences, University of Engineering and Technology, Peshawar, Pakistan, Vol 24 (1): 13-20.
17. **Khattak MS**, Khan TA, Alamgir M (2002). **Ground water chemicals concentration and standards for crops with particular reference to dug wells in district Karak**. Sarhad Journal of Agriculture, NWFP Agricultural University Peshawar, Pakistan, Vol 18 (2): 215-224.
18. **Khattak MS**, Khan TA, Alamgir A (2001). **To study the suitability of groundwater for irrigation in district Karak**. Journal. of Engineering and Applied Sciences, University of Engineering and Technology, Peshawar, Pakistan, Vol.20 (2): 20-24.

Paper Presented at International Workshop:

- **Motor vehicular air pollution – a health hazard in Peshawar city, Pakistan**. Second International Conference on global Environmental Changes, February 25-26, 2014 held at Faisalabad, Pakistan (Abstract Book pp-162)
- **Hydro-meteorological trends and climate change impacts on water resources in the Upper Indus River Basin** in the workshop on “Adaptation to Global Change in Agricultural Practices” held at Bangkok (Jan 10-11, 2011). Jointly organized by UNESCO-IHE, AIT and DOI/Nepal.