

WANG Bin

Associate Professor

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Education

Ph.D. Soil and Water Conservation, Northwest A&F University, 2013

M.Sc. Soil and Water Conservation, Northwest A&F University, 2009

B.Sc. Soil and Water Conservation, Northwest A&F University, 2006

Teaching

Graduate Courses: Soil and Water Conservation for Cultivated Land

Undergraduate Courses: Soil Erosion; Soil Physics; Soil Mechanism;

Geology and Geomorphology

Research Interests

- Soil Erosion and Its Control (Process, model, monitoring and control)
- Assessment of On-site and Off-site effect by Soil Erosion, and

Watershed Health Evaluation

- Eco-environmental rehabilitation and evaluation in eroded region
- Potential impact assessment of climate change on water resources and soil erosion

Selected Awards

- 15th Teaching Basic Skills Competition of Young Teachers (First prize), Beijing Forestry University, 2019
- Science and Technology Award (First prize), Chinese Society of Soil and Water Conservation, 2018
- Excellent Design Award (First prize), Chinese Society of Soil and Water Conservation, 2018
- 12th Teaching Basic Skills Competition of Young Teachers (First prize), Beijing Forestry University, 2016
- Outstanding Youth Paper Award, World Association of Soil and Water Conservation, 2015
- Young Educator Award, Beijing Forestry University, 2014
- Doctoral graduate National Scholarship, Ministry of Education, 2012

Other

- President of Youth Committee, World Association of Soil and Water Conservation (WASWAC), 2015 to present
- Deputy Director of Youth Work Committee, Chinese Society of Soil and Water Conservation (CSSWC), 2016 to present

- Editorial Board, International Soil and Water Conservation Research, 2016 to present
- Adjunct Research Scientist, Grazinglands Research Laboratory, USDA-ARS, 2016 (Co-operative Agreement between USDA and University of Oklahoma)
- Postdoctoral Fellowship, Earth Observation and Modeling, University of Oklahoma, 2016

Selected Publications

- Wang Chenfeng, **Wang Bin***, Wang Yujie, et al. 2020. Rare earth elements tracing interrill erosion processes as affected by near-surface hydraulic gradients. Soil & Tillage Research, 202: 104673. DOI: 10.1016/j.still.2020.104673
- Wang Chenfeng, **Wang Bin***, Wang Yunqi, et al. 2020. Improved interrill erosion prediction by considering the impact of the near-surface hydraulic gradient. Soil & Tillage Research, 203:104687. DOI: 10.1016/j.still.2020.104687
- Wang Chenfeng, **Wang Bin***, Wang Yunqi, et al. 2020. Impact of near-surface hydraulic gradient on interrill erosion process[J]. European Journal of Soil Science, DOI: 10.1111/ejss.12905
- Zhang Wenlong, **Wang Bin***, Wang Yunqi, et al. 2020. Quantitative Transformation Pathways of Soil Aggregate Breakdown Using Rare

Earth Element (REE) Tracer Method[J]. *Journal of Soil and Water Conservation*, 34(1):154-161,169.

- Li Yifan, Wang Yujie, **Wang Bin**, et al. 2019. Soil Nitrogen Mineralization Characteristics of Evergreen Broad-Leaved Forest in Jinyun Mountain in Chongqing in the Acid Rain Zone, Southwest China[J]. *Scientia Silvae Sinicae*, 55(6): 1-12.
- Li Yifan, Wang Yujie, **Wang Bin**, et al. 2019. Response of Soil Respiration and Its Components to Simulated Acid Rain in a Typical Forest Stand in the Three Gorges Reservoir Area[J]. *Environmental Science*, 40(3): 1457-1467.
- Hu B, Wang Y, **Wang B**, et al. 2018. Impact of drying-wetting cycles on the soil aggregate stability of Alfisols in southwestern China[J]. *73(4):469-478*.
- **B Wang***, J Steiner, F Zheng, et al. 2017. Impact of rainfall pattern on interrill erosion process[J]. *Earth Surface Processes and Landforms* 42 (12), 1833-1846.
- Wang Chenfeng, **Wang Bin***, Wang Yujie, et al. 2017. Critical hydraulic characteristics of yellow soil detachment under different antecedent soil moisture contents and slope gradients[J]. *Transactions of the Chinese Society for Agricultural Machinery*, 48(4):224-232.
- Wu Lingli, Wang Yujie, **Wang Bin**, et al. 2017. Influence of Dry-Wet Cycles on Aggregate Stability of Yellow Soil in Southwest China[J].

Journal of Soil and Water Conservation, (3):317-321,329.

- Wang Chenfeng, Zhang Shouhong, **Wang Bin**, et al. Study on Critical Hydraulic Characteristic of Soil Detachment and Soil Shear Strength under Different Antecedent Soil Moisture Contents[J]. Journal of Soil and Water Conservation, (1):91-96.
- Y Guan, F Zheng, X Zhang, **B Wang**. 2017. Trends and variability of daily precipitation and extremes during 1960–2012 in the Yangtze River Basin, China[J]. International Journal of Climatology 37 (3), 1282-1298.
- Hu B, Wang Y, **Wang B**, et al. 2017. Dynamics of stability of soil crust under natural rainfall event[J]. Transactions of the Chinese Society for Agricultural Machinery, 48 (6), 225-231.
- **B Wang***, F Zheng, Y Guan. 2016. Improved USLE-K factor prediction: A case study on water erosion areas in China[J]. International Soil and Water Conservation Research 4 (3), 168-176.
- Li Hongxiang, **Wang Bin***, Wang Yujie, et al. 2016. Impact of different forest types on stability and organic carbon of soil aggregates[J]. Journal of Beijing Forestry University, 13(5): 84-91.
- Liang Dan, **Wang Bin***, Wang Yunqi, et al. 2015. Distribution characteristics and sources of PM_{2.5} and gaseous pollutants in winter in Chongqing[J]. Research of Environmental Sciences, 28(07),1039-1046.

- Tang Xiaofen, **Wang Bin***, Wang Yunqi, et al. 2015. Effect of simulated acid rain with different acidities on photosynthetic characteristics of two broad-leaved trees in Jinyun Mountain of Chongqing[J]. Journal of Plant Resources and Environment, 24(4) :45-51.
- MJM Römken, RR Wells, **B Wang**, et al. 2015. Soil Erosion on Upland Areas by Rainfall and Overland Flow. Advances in Water Resources Engineering, 361-405.
- J An, F Zheng, **B Wang**. 2014. Using ¹³⁷Cs technique to investigate the spatial distribution of erosion and deposition regimes for a small catchment in the black soil region, Northeast China[J]. Catena 123, 243-251.
- B Algayer, **B Wang**, H Bourenane, et al. 2014. Aggregate stability of a crusted soil: differences between crust and sub-crust material, and consequences for interrill erodibility assessment[J]. European journal of soil science 65 (3), 325-335.
- Guan Yinghui, **Wang Bin**, Zheng Fenli, et al. 2014. Characteristics of meteorological disasters in China during 2012[J]. Journal of Natural Disasters, 23(1):24-31.
- F Zheng, **B Wang**. Soil erosion in the Loess Plateau region of China. Restoration and development of the degraded loess plateau, 77-92.
- Zhu Nan, **Wang Bin***, Wang Yunqi, et al. 2014. Soil respiration

characteristics and its relationship with environmental factors of four typical forests in Jinyun Mountain, China[J]. 12 (2), 16-23.

- Liang Dan, **Wang Bin***, Wang Yunqi, et al. 2014. Ability of typical greenery shrubs of Beijing to adsorb and arrest PM2.5[J]. Environmental Science, 35(9):3605-3611.
- **B Wang***, F Zheng, MJM Römken, F Darboux. 2013. Soil erodibility for water erosion: A perspective and Chinese experiences[J]. Geomorphology 187, 1-10.
- **B Wang**, F Zheng, MJM Römken. 2013. Comparison of soil erodibility factors in USLE, RUSLE2, EPIC and Dg models based on a Chinese soil erodibility database[J]. Acta Agriculturae Scandinavica, Section B–Soil & Plant Science 63 (1), 69-79.
- **B Wang**, F Zheng, Y Wang. 2012. Adaptability analysis on soil erodibility models in typical thin layer black soil area of Northeast China[J]. Transactions of the Chinese Society of Agricultural Engineering 28 (6), 126-131.
- **B Wang**, F Darboux, F Zheng, et al. 2010. Crusting cause changes in soil erodibility: assessment and consequences for erosion modeling. An example from the Loess Plateau (China). LandCon1010.
- **Wang Bin**, Zheng Fenli, An Juan, et al. 2009. Comparative study of particle size distribution by laser diffraction method and pipette method in black soil region of NE China[J]. Bulletin of Soil and Water

Conservation, 29(2):134-139,143.