

Xiangzhou Xu

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RESUME

Prof. Dr. Xiangzhou Xu is a Professor and PhD Supervisor at the School of Hydraulic Engineering, Dalian University of Technology. His expertise includes resource sustainability, soil and water conservation, rainfall resource utilization, and topography measurement. Most of his work time is spent on the physical experiments in the laboratory as well as in field. He is the principal investigator of 3 projects of the National Natural Science Foundation of China and 1 program for the Excellent Talents in the Universities of Liaoning Province. Xu has also gained two Ministerial and Provincial-Level Science and Technology Awards as the 1st or 3rd Place Winner. Presently Professor Xu has authored or co-authored 50+ journal articles, and 2 books. Among the journal articles, 12 of them are published in the SCI international journals. Professor Xu is also the first author of 12 invention patents of China. The Topography Meter designed by him opened a new way for further development of landslide tracking and measuring. Presently he is supervising four PhD students, five master students, and a visiting scholar. He is also the reviewer of nearly 20 SCI journals.

EDUCATION

Ph.D. (Hydraulics), 2006, Tsinghua University, Beijing
M. Sc. (Hydraulics), 1994, Dalian University of Technology, Dalian, Liaoning
B.Sc. (Hydraulics), 1991, Dalian University of Technology, Dalian, Liaoning

PROFESSIONAL POSITIONS

2016 to 2017, Visiting Scholar, University of Minnesota, Duluth, Duluth MN
2012 to date, PhD Supervisor, Dalian University of Technology, Dalian, Liaoning
2015 to date, Professor, Dalian University of Technology, Dalian, Liaoning
2006-2015, Associate Professor, Dalian University of Technology, Dalian, Liaoning
2006, Lecturer, Dalian University of Technology, Dalian, Liaoning
1996-2001, Engineer, Construction Design Company of DRDG, Dalian, Liaoning

1994-1996, Assistant Engineer, Construction Design Company of DRDG, Dalian, Liaoning

SOCIAL AFFILIATIONS

- Committee Member of the 13th SSS Division, EGU
- Committee Member of Soil Erosion Division, Chinese Society of Soil and Water Conservation
- A referee of the Natural Science Foundation of China
- A referee of 20 SCI International Journals

RESEARCH PROJECTS

- [1] PI. Landslides on the soil reservoir bank for the different factors coupling processes (2019.1-2022.12). A General Program of the National Natural Science Foundation of China (51879032), appropriated.
- [2] CO-PI. Management of the river bed and bench land in the lower reaches of the Yellow River (2017.01-2020.12). A Special Project of the National Key R & D Project (2016YFC0402504), appropriated.
- [3] PI. Experiments on soil erosion (2015.01-2018.12). A Program for Excellent Talents in the Universities of Liaoning Province (LR2015015), accomplished.
- [4] PI. A field study on gravitational erosion of the loess slope (2012.1-2015.12). A General Program of the National Natural Science Foundation of China (51179021), accomplished.
- [5] PI. An experimental study on gravitational erosion of the loess slope (2011.1-2013.12). A General Program of the National Natural Science Foundation of China (51079016), accomplished.

RESEARCH INTERESTS

- (1) Sustainability relating to soil and water conservation
- (2) Watershed management based on soil and water conservation
- (3) Utilization of rainfall resources
- (4) Theory and technology of topography measurement

APPROVED PATENTS

- [1] **Xu X**, Zhang C, Liu Y, Wang R, Song G. A 3D sampling device for the pollutants transporting in a river: CN, ZL201511024920.8 [Invention Patent], 2017-12-19. (in Chinese)
- [2] **Xu X**, Zhao R. Device and method for field experiments of the gravity erosion on the gully wall: CN, ZL201310422836.6 [Invention Patent], 2015-07-15. (in Chinese)
- [3] **Xu X**, Zhu X, Liu L, Ma L, Wang P. A rainwater collection device based on concrete sand-based porous bricks: CN, ZL201310237771.8 [Invention Patent], 2015-07-15. (in Chinese)
- [4] **Xu X**, Guo W, Ma L, Yan Q. A method to observe the amount of gravity erosion in the field experiment: CN, ZL201310422447.3 [Invention Patent], 2015-01-28. (in Chinese)
- [5] **Xu X**, Shu L, Yang X, Xu F. An energy-saving device to be quantitatively observed: CN, ZL201110002354.6 [Invention Patent], 2012-11-21. (in Chinese)

- [6] **Xu X**, Xu F, Liu Y, Wang S. A 3D observation method for the scouring terrain: CN, ZL201010502055.4 [Invention Patent], 2012-07-18. (in Chinese)
- [7] **Xu X**, Xu F, Wang J, Liu Y, Wang S. A 3D observation device for the scouring terrain: CN, ZL201010502051.6 [Invention Patent], 2012-07-04. (in Chinese)
- [8] **Xu X**, Xu F, Zhao C, Xu Y, Guo XY. A measurement method to model the 3D landform: CN, ZL201010144689.7 [Invention Patent], 2012-05-16. (in Chinese)
- [9] **Xu X**, Xu F, Zhao C, Wang S, Zhang H. A measurement device to model the 3D landform: CN, ZL201010144655.8 [Invention Patent], 2012-01-04. (in Chinese)
- [10] **Xu X**, Zhang H, Li Z, Zhang D. The similarity criteria for the semi-scale experiment of soil and water conservation: CN, ZL200610155907.0 [Invention Patent], 2011-04-27. (in Chinese)
- [11] **Xu X**, Chai G, Chen L. An experimental device to determine the effect of the urban porous surface collecting rainwater: CN, ZL200810012865.4 [Invention Patent], 2010-06-23.
- [12] **Xu X**, Zhang H, Zhang H. A laboratory device to simulate the process of soil and water conservation: CN, ZL200410029760.1 [Invention Patent], 2005-09-07. (in Chinese)

SELECTED PUBLICATIONS

- [1] **Xu X-Z***, Song G-D, Dang T-M, Liu J-W, Zhang H-W, Gao H, Liu Y-K. 2017, Environment and sustainability of the Middle Route, South-to-North Water Transfer Project in China: a close look, *Environment, Development and Sustainability*, 20: 2415-2426. (**Cited by SCI**, WOS:000449759800001).
- [2] **Xu X-Z***, Guo W-Z, Liu Y-K, Ma J-Z, Wang W-L, Zhang H-W, Gao H. 2017, Landslides on the Loess Plateau of China: a latest statistics together with a close look, *Natural Hazards*, 86: 1393-1403. (**Cited by SCI**, WOS:000398519700021)
- [3] Guo W-Z, **Xu X-Z***, Wang W-L, Yang J-S, Liu Y-K, Xu F-L. 2016, A measurement system applicable for landslide experiments in the field. *Review of Scientific Instruments*, 87(4): (044501-1)-(044501-7). (**Cited by SCI**, WOS:000375842500044)
- [4] **Xu X-Z***, Song GD, Liu J, Dang WQ, Gao H, Liu ZY, Zhang HW. 2015, Avalanche in Tuban: a hazard with no defense. *Natural Hazards*, 79(3): 2181-2187. (**Cited by SCI**, WOS:000365016300038)
- [5] **Xu X-Z***, Liu Z-Y, Xiao P-Q, Guo W-Z, Zhang H-W, Zhao C, Yan Q. 2015, Gravity erosion on the steep loess slope: Behavior, trigger and sensitivity, *Catena*, 135: 231-239. (**Cited by SCI**, WOS:000366225900024)
- [6] **Xu X-Z***, Liu Z-Y, Wang W-L, Zhang H-W, Yan Q, Zhao C, Guo W-Z. 2015, Which is more hazardous: avalanche, landslide, or mudslide?, *Natural Hazards*, 76(3): 1939-1945. (**Cited by SCI**, WOS:000350663100025)
- [7] **Xu X-Z***, Zhang H-W, Wang W-L, Zhao C, Yan Q. 2015, Quantitative monitoring of gravity erosion using a novel 3D surface measuring technique: validation and case study, *Natural Hazards*, 75(2): 1927–1939. (**Cited by SCI**, WOS:000346407100045)
- [8] **Xu XZ***, Li MJ, Liu B, Kuang SF, Xu SG. 2012, Quantifying the effects of conservation practices on soil, water, and nutrients in the Loess Mesa Ravine Region of the Loess Plateau, China. *Environmental Management*, 49(5): 1092-1102. (**Cited by SCI**:

WOS:000303477700013; **Cited by EI**, 20142517831938)

- [9] **Xu XZ***, Xu Y, Chen SC, Xu SG, Zhang HW. 2010, Soil loss and conservation in the black soil region of Northeast China: a retrospective study. *Environmental Science and Policy*, 13(8): 793-800. (**Cited by SCI**, WOS:000286365400014)
- [10] **Xu XZ***, Zhang HW, Wang GQ, Chen SC, Dang WQ. 2009, An experimental method to verify soil conservation by check dam on the Loess Plateau, China. *Environmental Monitoring and Assessment*, 159: 293-309. (**Cited by SCI**, WOS:000271530400023; **Cited by EI**, 200948122512684)
- [11] **Xu XZ***, Zhang HW, Wang GQ, Peng Y, Zhang OY. 2006, A laboratory study on relative stability of check dam on the Loess Plateau, China. *Land Degradation & Development*, 17: 629-644. (**Cited by SCI**, WOS:000242910900005; **Cited by EI**, 065110324428).
- [12] **Xu XZ***, Zhang HW, Zhang OY. 2004, Development of check-dam systems in gullies on the Loess Plateau, China. *Environmental Science and Policy*, 7(2): 79-86. (**Cited by SCI**, WOS:000220767600001).