

Assistant Professor (Research) Jiang Weiquan

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Academic Qualification:

Ph.D. in , Department of Mechanics and Engineering Science, Peking University

B.Eng. in School of Energy and Power Engineering, Huazhong University of Science and Technology

Teaching Area

Environmental Hydraulics

Research Area

Environmental fluid mechanics

Hydrodynamic phenomena of active particles

Working Experience

Academic Publication (selected)

Wu, Z.* , **Jiang, W.***, Zeng, L. & Fu, X.*. Theoretical analysis for bedload particle deposition and hop statistics. *Journal of Fluid Mechanics* 954, A11 (2023)

Jiang, W., Zeng, L., Fu, X.* & Wu, Z.*. Analytical solutions for reactive shear dispersion with boundary adsorption and desorption. *Journal of Fluid Mechanics* 947, A37 (2022)

Jiang, W. & Chen, G.*. Transient dispersion process of active particles. *Journal of Fluid Mechanics* 927, A11 (2021)

Jiang, W. & Chen, G.*. Dispersion of gyrotactic micro-organisms in pipe flows. *Journal of Fluid Mechanics* 889, A18 (2020)

Guo, J., **Jiang, W.** & Chen, G.*. Transient solute dispersion in wetland flows with submerged vegetation: an analytical study in terms of time-dependent properties. *Water Resources Research* 56, e2019WR025586 (2020)

Jiang, W. & Chen, G.*. Dispersion of active particles in confined unidirectional flows. *Journal of Fluid Mechanics*

Jiang, W. Q. & Chen, G. Q.*. Solution of Gill's generalized dispersion model: solute transport in Poiseuille flow

Books

Patents (selected)

Professional Certification and Awards

Student Awards

Professional Society Membership