

SHILEI PENG (PH.D.)

✉ pengshilei@isa.ac.cn/1016462652@qq.com ·

🎓 EDUCATION

- Hokkaido University**, Sapporo, Japan Otc. 2018 – Sep. 2021
Ph.D. in Environmental Resources
- Southwest University**, Chongqing, China Sep. 2015 – Jun. 2018
M.S. in Soil and Water Conservation and Desertification Combating
- Southwest University**, Chongqing, China Sep. 2011 – Jun. 2015
B.S. in Soil and Water Conservation and Desertification Combating

👤 EXPERIENCE

- Institute of Subtropical Agriculture, Chinese Academy of Sciences** Changsha, China Aug. 2022 – Present
Assistant Researcher (Postdoctoral Fellow)
- Laboratory of Soil Science, Research Faculty of Agriculture, Hokkaido University**, Sapporo, Japan Sep. 2021 – Mar. 2022
Specialized Researcher

⚙️ PUBLICATION

- **Peng Shilei**, Xianli Xu, Renjun Liao, Binghui He, Kunihito Mihara, Kanta Kuramochi, Yo Toma, and Ryusuke Hatano. 2024, 'Hydro-climatic extremes the shift hydrologic sensitivity regime in a cold basin, Science of the Total Environment, 949: 174744.
- **Peng Shilei**, Kunihito Mihara, Xianli Xu, Kanta Kuramochi, Yo Toma, and Ryusuke Hatano. 2024. 'Modeling hydrological processes under Multi-Model projections of climate change in a cold region of Hokkaido, Japan', Catena, 234: 107605.
- **Peng Shilei**, Dong Yang, Qingqing Dai, Xuezhong Li, Zhenwei Li, Binghui He, and Xianli Xu. 2024. 'Escalating hot-dry extremes in Southwest China Karst', Journal of Hydrology: Regional Studies, 53: 101838.
- **Peng Shilei**, Chunying Wang, Zhan Li, Kunihito Mihara, Kanta Kuramochi, Yo Toma, and Ryusuke Hatano. 2023. 'Climate change multi-model projections in CMIP6 scenarios in Central Hokkaido, Japan', Scientific Reports, 13: 230.
- **Peng Shilei**, Chunying Wang, Sadao Eguchi, Kanta Kuramochi, Kazunori Kohyama, Seiko Yoshikawa, Sunao Itahashi, Masato Igura, Satoru Ohkoshi, and Ryusuke Hatano. 2021. 'Response of hydrological processes to climate and land use changes in Hiso River watershed, Fukushima, Japan', Physics and Chemistry of the Earth, Parts A/B/C, 123: 103010.

♥️ CONFERENCE

- **Shilei Peng**, "Escalating hot-dry extremes in Southwest China Karst". The 4th International Symposium on Sustainable Agriculture for Subtropical Region ISSASR-4, 2024, June 21-24, 2024. Changsha. China.
- **Shilei Peng**, "Evaluation of hydrological processes and radiocesium transportations in Hiso River watershed, Fukushima, Japan". Annual meeting of Japanese Society of Soil Science and Plant Nutrition, 2021, Hokkaido. September 14-16, 2021. Hokkaido University. Japan.
- **Shilei Peng**, "Response of hydrological processes to climate and land use changes in Hiso River watershed, Fukushima, Japan". The EGU General Assembly 2021. April 19-30, 2021. Vienna, Austria.

- **Shilei Peng**, “Modeling of streamflow and sediment yield in a cold and mountain-dominated basin”. Annual meeting of Japanese Society of Soil Science and Plant Nutrition, 2020, Okayama. September 8-10, 2020. Okayama University. Japan.
- **Shilei Peng**, “Modeling sediment yield response to land use change using SWAT model in Hiso basin, Fukushima, Japan”. The 14th International Conference of the East and Southeast Asia Federation of Soil Science Societies (ESAFS). November 3-8, 2019. National Taiwan University, Taipei, Taiwan.
- **Shilei Peng**, “Simulation sediment yield using the SWAT model: A Case Study of Hiso Watershed, Fukushima, Japan”. Annual meeting of Japanese Society of Soil Science and Plant Nutrition, 2019, Shizuoka. September 3-5, 2019. Shizuoka University. Japan.

i OTHER

- **Reviewer:** Acta Geophysica / CATENA / Journal of Environmental Science and Management / Journal of Advanced Research in Fluid Mechanics and Thermal Sciences / Forestry Science
- **Skills:** PYTHON / R / MATLAB
- **Languages:** English