

Publications

	Journal Articles	Top
12	Vona, I., Tseng, C. Y., Tinoco, R., Nardin, W. (In review). Oysters' integration on submerged breakwaters: A laboratory study with scaled-down oyster castles, Ecological Engineering	2024
11	Tseng, C. Y. and Musa, M. (In review). Hydrokinetic energy applications within hydropower tailrace channels: implications, siting, and U.S. potential, Renewable Energy	2024
10	Tseng, C. Y., Ham, K., Sasthav, C., Basub, S., DeSomberb, K., Musa, M. (In review). Renewable and Sustainable Energy Reviews Hydraulic testing needs for hydropower innovations, Renewable and Sustainable Energy Reviews	2024
9	Tseng, C. Y., Lee, J., Guala, M., Musa, M. (In review). Quantification of Lateral Bedload Transport Induced by a Yawed Submerged Vane Array in Open-Channel Flows, Journal of Hydraulic Engineering	2024
8	Tseng, C. Y. and Tinoco, R. O. (2024). Canopy Randomness, Scale, and Stem Size Effects on the Interfacial Transfer Process in Vegetated Flows, Water Resources Research	2024
7	Tseng, C. Y., Ghadiri, M., Kumar, P., Meidani, H. (2023). Estimation of hydraulic conductivity in a watershed using multi-source data via co-kriging and Bayesian experimental design, Advances in Water Resources, 178, 104489	2023
6	Musa, M., Ghobrial, L., Heineman, J., Rencheck, M., Stewart, K., DeNeale, S., Tseng, C. Y., White D., Davis, L., Nachman M., Rugani K. (2023). Advanced Manufacturing for Hydropower: Challenges and Opportunities, Oak Ridge National Laboratory, ORNL/TM-2023/2835, Oak Ridge, TN (United States)	2023
5	Tseng, C. Y. and Tinoco, R. O. (2022). From substrate to surface: A turbulence-based model for gas transfer across sediment-air-water interfaces in vegetated streams, Water Resources Research, 58(1), e2021WR030776	2022
4	Tseng, C. Y. and Tinoco, R. O. (2021). A two-layer turbulence-based model to predict suspended sediment concentration in flows with aquatic vegetation, Geophysical Research Letters, 48(3), e2020GL091255	2021
3	Lin, Y. F., Tseng, C. Y., Sargent, S. L. (2020). User's manual for the portable thermal response test device, Technical Report, Illinois State Geological Survey, Prairie Research Institute, Circular no. 603	2020

2 Tseng, C. Y. and Tinoco, R. O. (2020). A model to predict surface gas transfer
rate in streams based on turbulence production by aquatic vegetation, *Advances
in Water Resources*, 143, 103666 2020

1 Tseng, C. Y. and Chou, Y. J. (2018). Nonhydrostatic simulation of hyperpycnal
river plumes on sloping continental shelves: flow structures and nonhydrostatic
effect, *Ocean Modelling*, 124, 33-47 2018

Manuscript in Preparation

1 Tseng, C. Y., Turner, S., Montgomery, C., Massey, M. P., Gangrade, S.,
Stewart, K., Kao, S. C. (In prep). Sensitivity of Thermal Stratification in Two
Southeastern Reservoirs in Response to Changes in Long-Term Temperature
and Flow Discharge, *Journal of Hydrology*