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Expertise and Research Interests:

Radiocarbon (^{14}C) dating and tracer studies:

1. Developing techniques for radiocarbon analyses of solid, liquid and gas samples
2. Establishing reservoir ages around Taiwan for radiocarbon age correction of marine samples
3. Radiocarbon tracer studies in water and air samples for ocean current circulation, global carbon cycle, and anthropogenic activities in the atmosphere
4. Radiocarbon tree ring studies for paleoclimate reconstruction
5. Developing process for verifying renewable content in fuel blends, tracking co-processing efficiency and certifying biobased products

Isotopes Geochemistry:

1. oxygen, carbon, and uranium-series isotopes in corals for paleoclimatic and paleoceanographic and environmental studies
2. cosmogenic isotopes (^{14}C , ^{10}Be , ^{129}I) in rocks for surface erosion and in seawater for ocean circulation tracer studies

Selected Publications:

1. **SL Wang***, YY Lee, CC Shen, IC Yen, SW Wang, YC Yang, GS Burr and JBH Shyu. 2025. Marine reservoir age correction for the Taiwan Strait and the South China Sea since early Mid-Holocene. *Radiocarbon*, 67, DOI: 10.1017/RDC.2025.10146. (JIF=1.3, 64/101(Q3) in *Geochemistry & Geophysics*)
2. **SL Wang***, YS Lin, GS Burr, PL Wang and LH Lin. 2022. Radiocarbon and stable carbon isotope constraints on the propagation of vent CO_2 to fluid in the acidic Kueishantao shallow water hydrothermal system. *Geochemistry, Geophysics, Geosystems*, 23, e2022GC010508. DOI: 10.1029/2022GC010508. (JIF=3.0, 27/101(Q2) in *Geochemistry & Geophysics*)
3. **SL Wang**, D Fan, WJ Huang, Y Wu and J Su. 2021. Hypoxic effects on the radiocarbon in DIC of the ECS subsurface water. *Journal of Geophysical Research: Ocean*, 126, e2020JC016979. DOI: 10.1029/2020JC016979. (JIF=3.4, 9/65(Q1) in *Oceanography*)

4. GS Burr, H Matsuzaki, BS Wang, H Kusuno, H Tokuyama, T Yamagata, TL Yu, **SL Wang**, CC Chang, AJT Jull and CH Lo. 2020. Anthropogenic ^{129}I in the South China Sea and coastal waters around Taiwan. *Elementa Science of the Anthropocene*, 8, 1. DOI: 10.1525/elementa.2020.064. (JIF=4.5, 25/111(Q1) in Meteorology & Atmospheric Sciences)