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RESEARCH INTEREST: High-pressure experimental geoscience

WORK & EDUCATION EXPERIENCE:

1. Academia Sinica, Taiwan
   2019.08-current Postdoctoral fellow

2. Geodynamics Research Center, Ehime University, Japan
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3. Institute for Study of the Earth's Interior, Okayama University, Japan
   2011.04-2016.03 Ph.D. in Geoscience

4. Bayerisches Geoinstitut, Germany
   2009.04-2011.03 M.Sc. in Geoscience

5. University of Science and Technology of China, China
   2004.09-2008.07 B.Sc. in Geochemistry.

PUBLICATIONS:

1. **Sun, W.**, T. Yoshino, N. Sakamoto and H. Yurimoto (2019), H-D interdiffusion in single-crystal olivine: implications for electrical conductivity in the upper mantle, *Journal of Geophysical Research, 124*, 5696-5707.
2. **Sun, W.**, T. Yoshino, N. Sakamoto and H. Yurimoto (2018), Supercritical fluid in the mantle transition zone deduced from H–D interdiffusion of wadsleyite, *Earth and Planetary Science Letters, 484*, 309-317.
3. F. Xu, D. Yamazaki, N. Sakamoto, **W. Sun**, H. Fei and H. Yurimoto, (2016), Silicon and oxygen self-diffusion in stishovite: implications for stability of SiO2-

rich seismic reflectors in the mid-mantle, *Earth and Planetary Science Letters, 459*, 332-339.

4. **Sun, W.**, T. Yoshino, N. Sakamoto and H. Yurimoto (2015), H-D exchange in single crystal ringwoodite: Implications for water content and distribution in the mantle transition zone, *Geophysical Research Letter, 42*, 6582-6589.
5. **Sun, W.**, A. Audétat and D. Dolejš (2014), Solubility of molybdenite in hydrous granitic melts at 800 °C, 100–200 MPa, *Geochimica et Cosmochimica Acta, 131*, 393–401.
6. Yamazaki, D., E. Ito, T. Yoshino, A. Yoneda, X. Guo, B. Zhang, **W. Sun**, A. Shimojuku, N. Tsujino, T. Kunimoto, Y. Higo, K. Funakoshi, (2012), P-V-T equation of state for ε-iron up to 80 GPa and 1900 K using the Kawai-type high pressure apparatus equipped with sintered diamond anvils, *Geophysical Research Letter, 39*, 203-08.