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Curriculum vita

Education:

- Ph. D in Geophysics, Aug. 1998 – May, 2003 at State University of New York at Stony Brook
- M. S. in Computer Sciences, Sept. 1999- Dec., 2002 at State University of New York at Stony Brook (second major)
- M. S. Geophysics, Aug. 1995 – Aug. 1998 at University of Petroleum, Beijing, China
- B.S. Geophysics, Aug. 1991 – Aug. 1995 at Yangtze University, China

Employment History:

- Research scientist in Mineral Physics Institue, Stony Brook, NY, Nov. 2005- Nov. 2008
- Adjunct assistant professor in Mineral Physics Institue, Stony Brook, NY, Nov. 2005- Nov. 2008
- Honorary reserach fellow at Univerisity College London, London, UK, Jan. 2005 – present
- Post-doc at Universite des Sciences et Technologies de Lille, France, Jan. 2004 – Dec. 2004
- Post-doc at Mineral Physics Institute, Stony Brook, May, 2003 – Dec.2003
- Research Assistant at Dept of Geosciences at SUNYSB, Fall, 1999-May, 2003
- Teaching Assistant at Dept of Geosciences at SUNYSB, Fall, 1998 - Spring, 1999

Publications:

Chen, J., L. Li, et al. (2004). "Deformation Experiments using Synchrotron X-rays: In situ stress and strain measurements at high pressure and temperature." Physics of The Earth and Planetary Interiors 143-144: 347-356.

Li, L. (2003). Rheology of olivine at high temperature and high pressure, SUNY at Stony Brook, Stony Brook, NY, United States.

Li, L., A. Addad, et al. (2006). "High pressure deformation in two-phase aggregates." Tectonophysics submitted.

Li, L., J. P. Brodholt, et al. (2005). "Elasticity of (Mg, Fe)(Si, Al)O_3-perovskite at high pressure." Earth and Planetary Science Letters 240(2): 529-536.
Li, L., J. P. Brodholt, et al. (2005). "Electronic Spin State of Ferric Iron in Al-bearing Perovskite in the Lower Mantle." Geophys. Res. Lett. 32: L17307, doi:10.1029/2005GL023045.
Li, L., P. Carrez, et al. (2006). "Theoretical model of spinel elasticity with cation ordering and pressure." American Mineralogist in press.
Li, L., H. Long, et al. (2006). "Plastic flow of pyrope at mantle pressure and temperature." American Mineralogist 91: 517-525.
Li, L., P. Raterron, et al. (2003). "Olivine Flow Mechanisms at 8 GPa." Physics of the Earth and Planetary Interior 138(2): 113-129.
Li, L., D. Weidner, et al. (2004). "Stress measurements of deforming olivine at high pressure." Physics of the Earth and Planetary Interior 143-144: 357-367.
Li, L., D. Weidner, et al. (2006). "Deformation of olivine at mantle pressure using D-DIA." European Journal of Mineralogy 18: 7-19.
Li, L., D. J. Weidner, et al. (2006). "Ab intio Molecular Dynamcis simulation on the elasticity of Mg3Al2Si3O12 pyrope." Physics of the Earth and Planetary Interiors submitted.
Li, L., D. J. Weidner, et al. (2006). "Elasticity of Mg_2SiO_4 ringwoodite at mantle conditions." Physics of the Earth and Planetary Interior 157(3-4): 181-187.
Li, L., D. J. Weidner, et al. (2006). "Elasticity of $CaSiO_3$ perovskite at high pressure and high temperature." Phys Earth Planet Sci. 155(3-4): 249-259.
Li, L., D. J. Weidner, et al. (2006). "Phase stability of $CaSiO_3$ perovskite at high pressure and temperature: insights from ab initio molecular dynamics." Phys Earth Planet Sci. 155(3-4): 260-268.
Li, L., D. J. Weidner, et al. (2006). "Ab initio study on the effect of cation-ordering and pressure on the elasticity of majorite and majorite-pyrope solid solution." submitted.
Li, L., D. J. Weidner, et al. (2004). "X-ray strain analysis at high pressure: Effect of plastic deformation in MgO." Journal of Applied Physics 95(12): 8357-8365.
Li, L., R. M. Wentzcovitch, et al. (2006). "Vibrational and thermodynamic properties of forsterite at mantle conditions." Journal of Geophysical Research submitted.
Vaughan, M., J. Chen, et al. (2000). Use of X-ray imaging techniques at high-pressure and temperature for strain measurements. AIRAPT-17, Universities Press, Hyderabad, India.
Weidner, D., L. Li, et al. (2005). High-temperature plasticity measurements using sychrotron X-rays. High-pressure technology for geophysical applications. J. Chen, Y. Wang, T. S. Duffy, G. Shen and L. F. Dobrzhinetskaya. San diego, ELSEVIER Inc.: 123-136.
Weidner, D. J., J. Chen, et al. (2001). "Subduction zone rheology." Physics of The Earth and Planetary Interiors 127(1-4): 67-81.
Weidner, D. J., L. Li, et al. (2004). "Effect of Plasticity on Elastic Modulus Measurements." Geophysical Review Letter 31(6): 19090.

Awards:

Alvin Van Valkenburg Award, received at High Pressure Gordon Conference in Maine (2006)

Invited Talk:

"Modelling the Properties of the Earth's Minerals by Quantum Mechanics", Geoscience Dept Colloqium, Stony Brook University, Stony Brook, NY, 11790, May 4th, 2006

"Insights from measuring stress at high pressure and high temperature", High Pressure Gordon Conference, Biddford, Maine, June, 29th, 2006