

Last updated October 2021

Online at clazar.com/science/cv.htm

Publications

Lazar, C., Cooperdock, E.H.G, and Seymour, B. (student) (2021) A continental forearc serpentinite diapir with deep origins: Elemental signatures of a mantle wedge protolith and slab-derived fluids at New Idria, California. *Lithos* 398-399. [PDF](#)

Lazar, C. (2020) Using silica activity to model redox-dependent fluid compositions in serpentinites from 100-700 °C and 1-20 kbar. *Journal of Petrology* (61), Issue 11-12, pp. 1-25. [PDF](#)

Lazar C., Cody G.D., and Davis J.M. (2015) A kinetic pressure effect on the aqueous abiotic reduction of CO₂ to methane at 300 °C and 1 to 3.5 kbar. *Geochimica et Cosmochimica Acta*, 151, 34-48. [PDF](#)

Young E.D., Manning C.E., Schauble E.A., Shahar A., Macris C.A., Lazar C., and Jordan M. (2015) High-temperature equilibrium isotope fractionation of non-traditional stable isotopes: experiments, theory, and applications. *Chemical Geology*, 395, 176-195. [PDF](#)

Lazar C., Zhang C., Manning C.E., and Mysen B.O. (2014) Redox effects on calcite-portlanditefluid equilibria at forearc conditions: carbon mobility, methanogenesis, and reduction melting of calcite. *American Mineralogist* (notable paper), 99, 1604-1615. [PDF](#)

Lazar C., Young E.D., and Manning C.E. (2012) Experimental determination of equilibrium nickel isotope fractionation between metal and silicate from 500 °C to 950 °C. *Geochimica et Cosmochimica Acta*, 86, 276-295. [PDF](#)

Lazar C., McCollom T.M., and Manning C.E. (2012) Abiogenic methanogenesis during experimental komatiite serpentinization: implications for the evolution of the early Precambrian atmosphere. *Chemical Geology*, 326-327, 102-112. [PDF](#)

Lazar C., Walker D., and Walker R.J. (2004) Experimental partitioning of Tc, Mo, Ru, and Re between solid and liquid during crystallization in Fe-Ni-S. *Geochimica et Cosmochimica Acta*, 68, 3, 643-651. [PDF](#)