

Supplementary materials

Influence of pH on Molecular Hydrogen (H₂) Generation and Reaction Rates during Serpentinization of Peridotite and Olivine

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Introduction

This supporting information provides standard curves used to obtain the amounts of serpentine and talc in experiments with peridotite and high acid solutions (2 M HCl) (Figure S1). The standard curves were based on infrared spectra of mechanical mixtures of peridotite, serpentine and talc. It also provides a standard curve for quantifying residual olivine in the solid products of experiments with peridotite and high acid solutions (2 M HCl) as starting reactants (Figure S2).

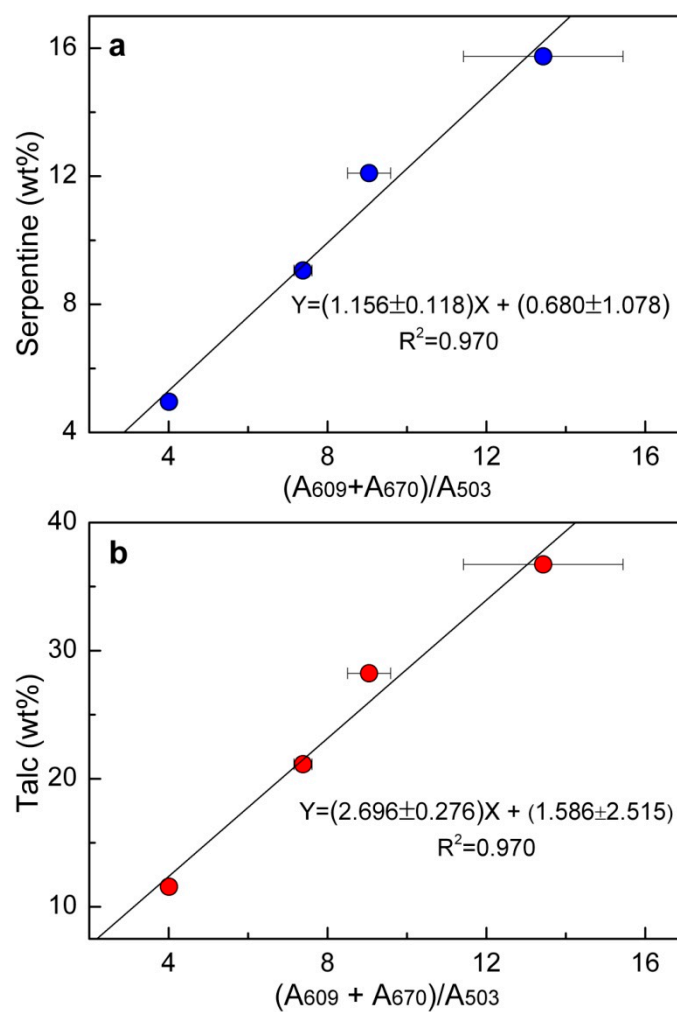


Figure S1. (a) A standard curve for quantifying serpentine in experiments with peridotite and high acid solutions (2 M HCl) as starting reactants. (b) A standard curve for quantifying talc in experiments with peridotite and high acid solutions (2 M HCl) as starting reactants.

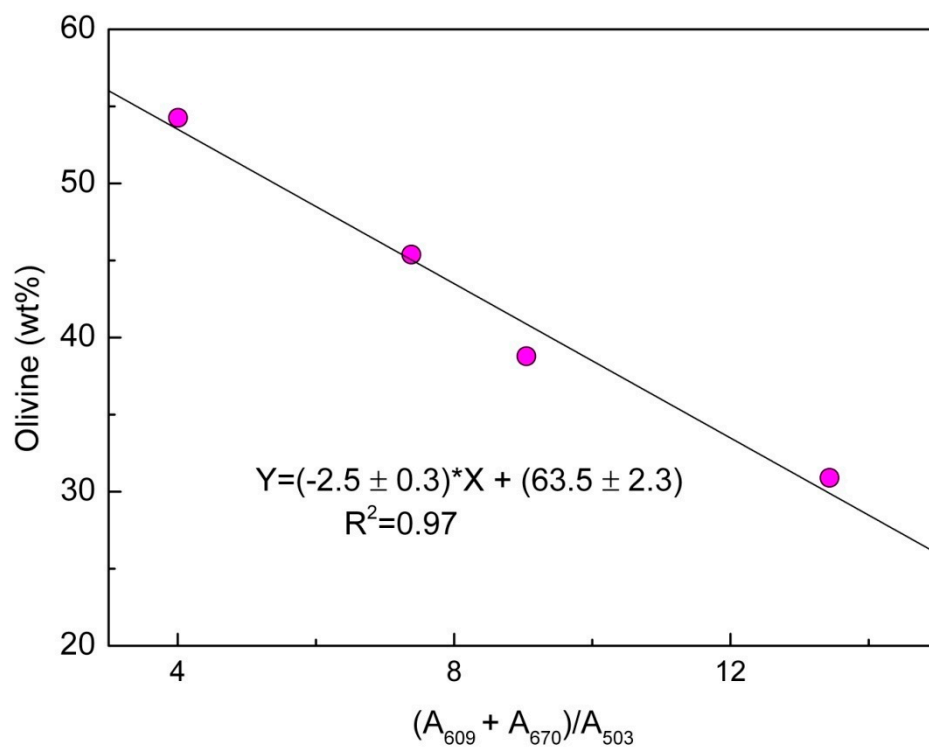


Figure S2. A standard curve for obtaining the amounts of residual olivine in experiments with peridotite and high acid solutions (2 M HCl) as starting reactants.