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Measuring the temperature of geological processes using clumped isotopes

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Since its establishment almost 20 years ago, carbonate clumped isotope thermometry has grown to the most widely applied branch of the rapidly evolving field of clumped isotope geochemistry. An increasing number of laboratories worldwide is implementing this technique and applying it to solve a broad range of Earth science questions. In this talk, I will review the state-of-the-art analytical methods and temperature calibrations and present various application of clumped isotopes in paleoclimate and tectonics.