



## Researchers publish in 'ChemPhysChem'

Posted by Kimber Crull

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A research team collaboration from the University of Missouri-Columbia and Missouri S&T published a recent paper in [ChemPhysChem](#) and the team included:

- Dr. Fabio Gallazzi, research assistant professor for [MU's Molecular Interaction Core](#).
- Dr. Rainer Glaser, professor of chemistry for Missouri S&T.
- Dr. Joseph Schell, MU alumnus and former MU doctoral student of Dr. Rainer Glaser.
- Dr. Wei Wycoff, retired senior research specialist for [MU's Nuclear Magnetic Resonance Core](#).
- Dr. Kaidi Yang, MU alumna, former MU doctoral student of Dr. Rainer Glaser and postdoctoral research associate for chemistry at Missouri S&T also with Glaser.

The chemistry research studied Rubisco-mimetic CO<sub>2</sub> capture and release (CCR) systems for reversible CO<sub>2</sub> capture from air. In their recent [paper](#) in [ChemPhysChem](#), the team reported on the determination of the thermochemistry of carbamylation of butylamine and of KDDE-type oligopeptides (H<sub>3</sub>C-CO-Lys-Asp-Asp-Glu-NH<sub>2</sub>) in aqueous solution as a function of pH.

The accomplishment of this research required broad expertise in physical organic chemistry, chemical kinetics, thermodynamics, peptide chemistry and NMR spectroscopy.

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