

ARTICLE

Dynamics of CH/n Hydrogen Bond Network Probed by Time-Resolved CARS Spectroscopy

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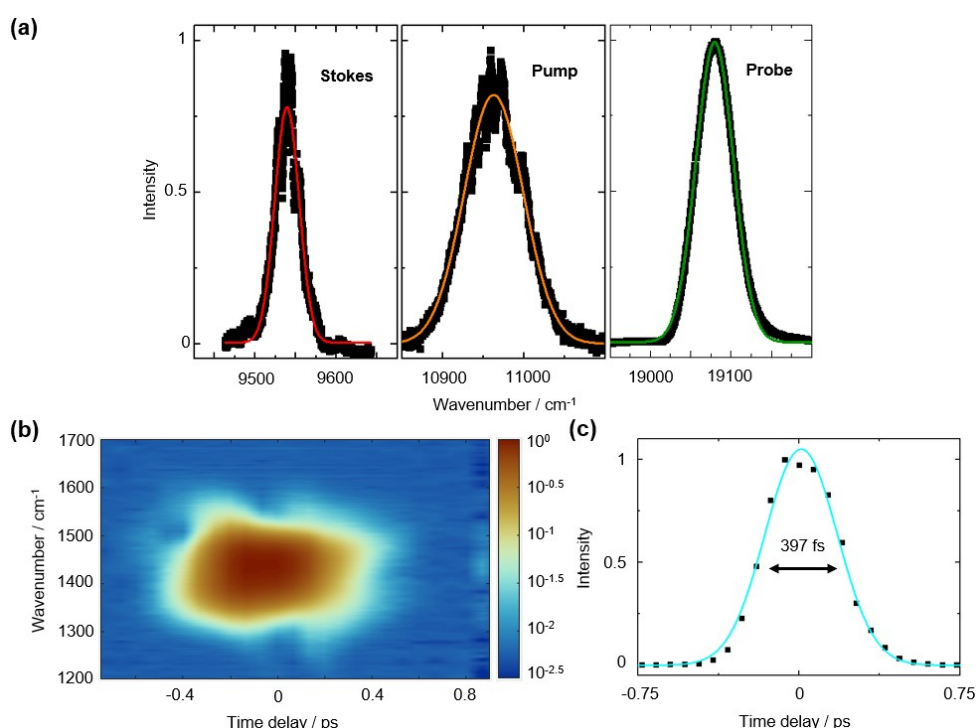


Fig. S1. Time-resolved coherent anti-Stokes Raman scattering (T-CARS) spectroscopy platform. (a) Representative spectra of the stimulation beams, Stokes, pump, and probe beams. Spectral bandwidth (FWHM) of each beam is 35 cm⁻¹, 86 cm⁻¹, and 55 cm⁻¹. (b) Time- frequency-resolved spectrum of water. The spectra are colored with the Roma color map. (c) Pulse width (FWHM) of four-wave-mixing signal of water.

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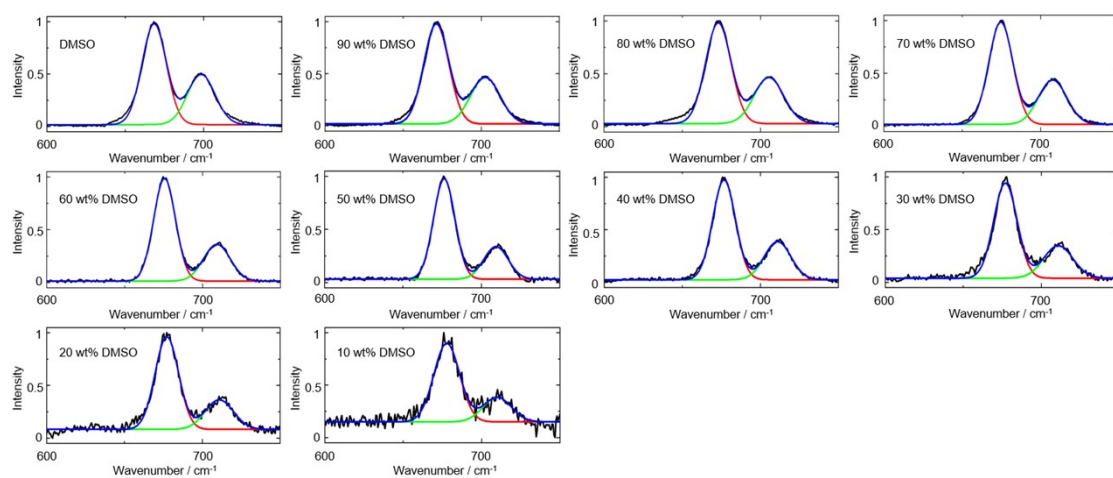


Fig. S2. Bimodal Gaussian fitting of C-S stretching symmetric and anti-symmetric modes.

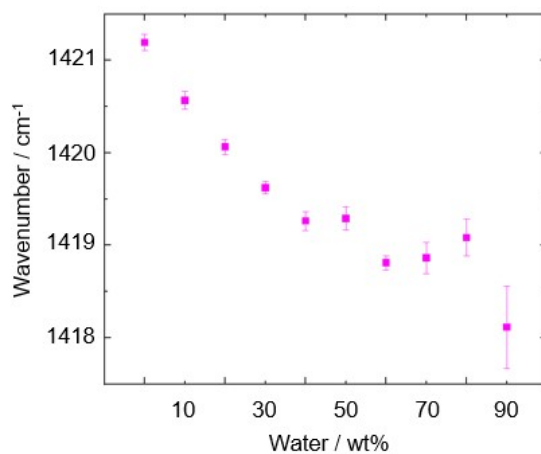


Fig. S3. Resonant frequency of C-H bending mode plotted against water concentration in weight percent.

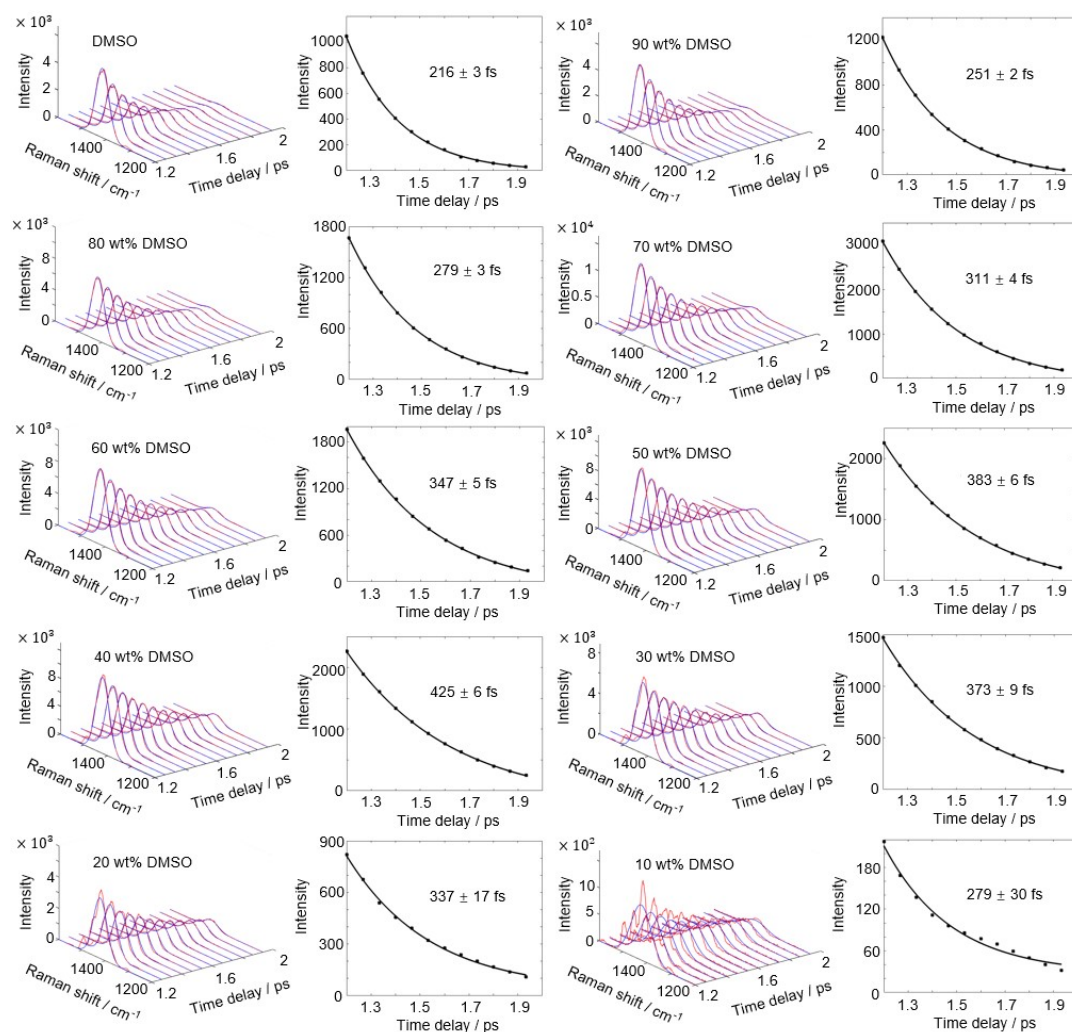


Fig. S4. T-CARS spectra of DMSO-water solution.