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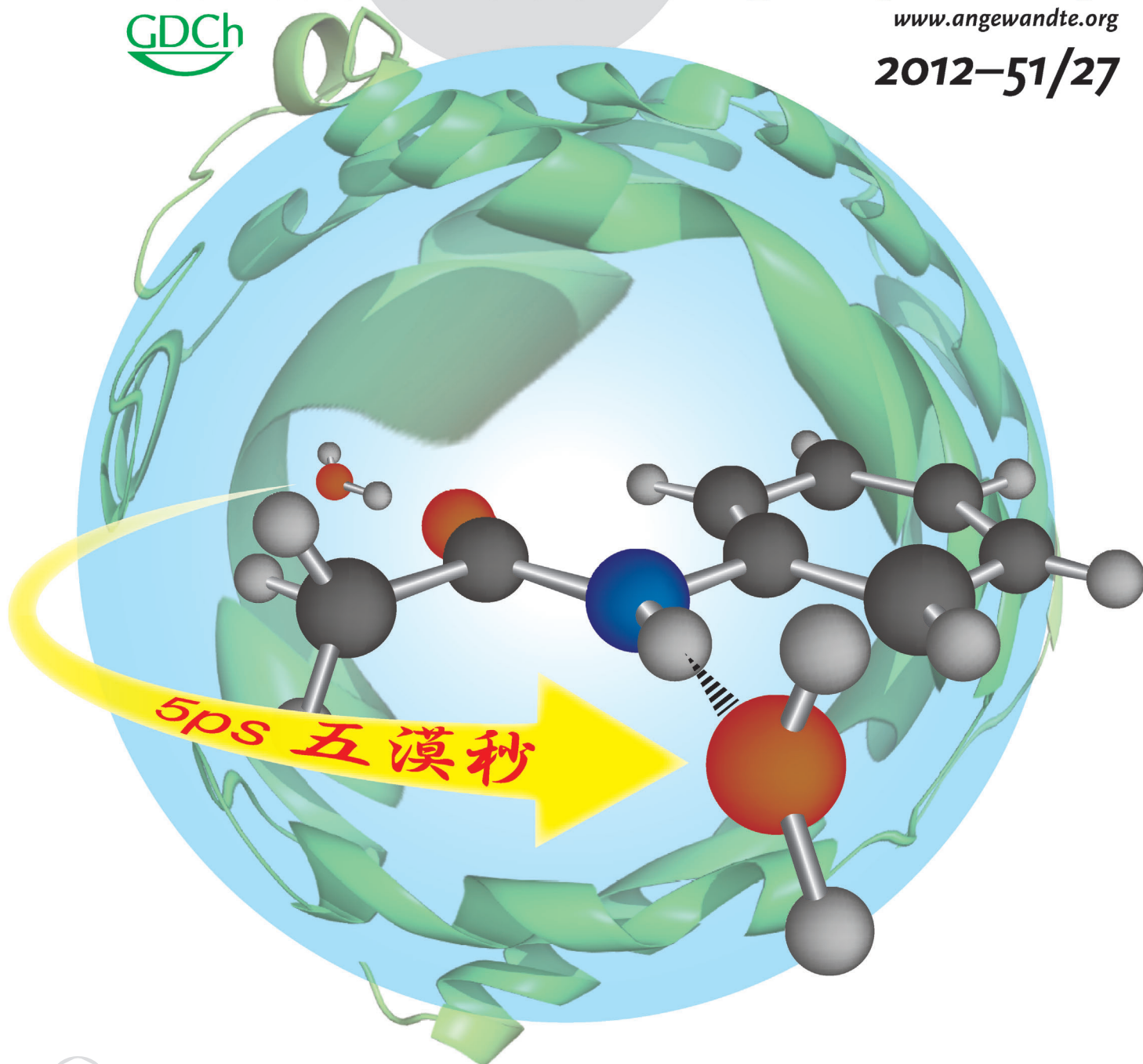
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The motion of a single water ligand ...

... around a peptide bond in acetanilide was probed in real time by time-resolved IR spectroscopy. In their Communication on page 6604 ff., O. Dopfer, M. Fujii et al. observe that triggered by photo-ionization, the H₂O ligand is released from the CO site of the peptide linkage and trapped after a migration time of 5 ps at the NH site of the same peptide bond. The migration occurs via an intermediate in which the H₂O molecule binds neither to the CO nor the NH site.

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