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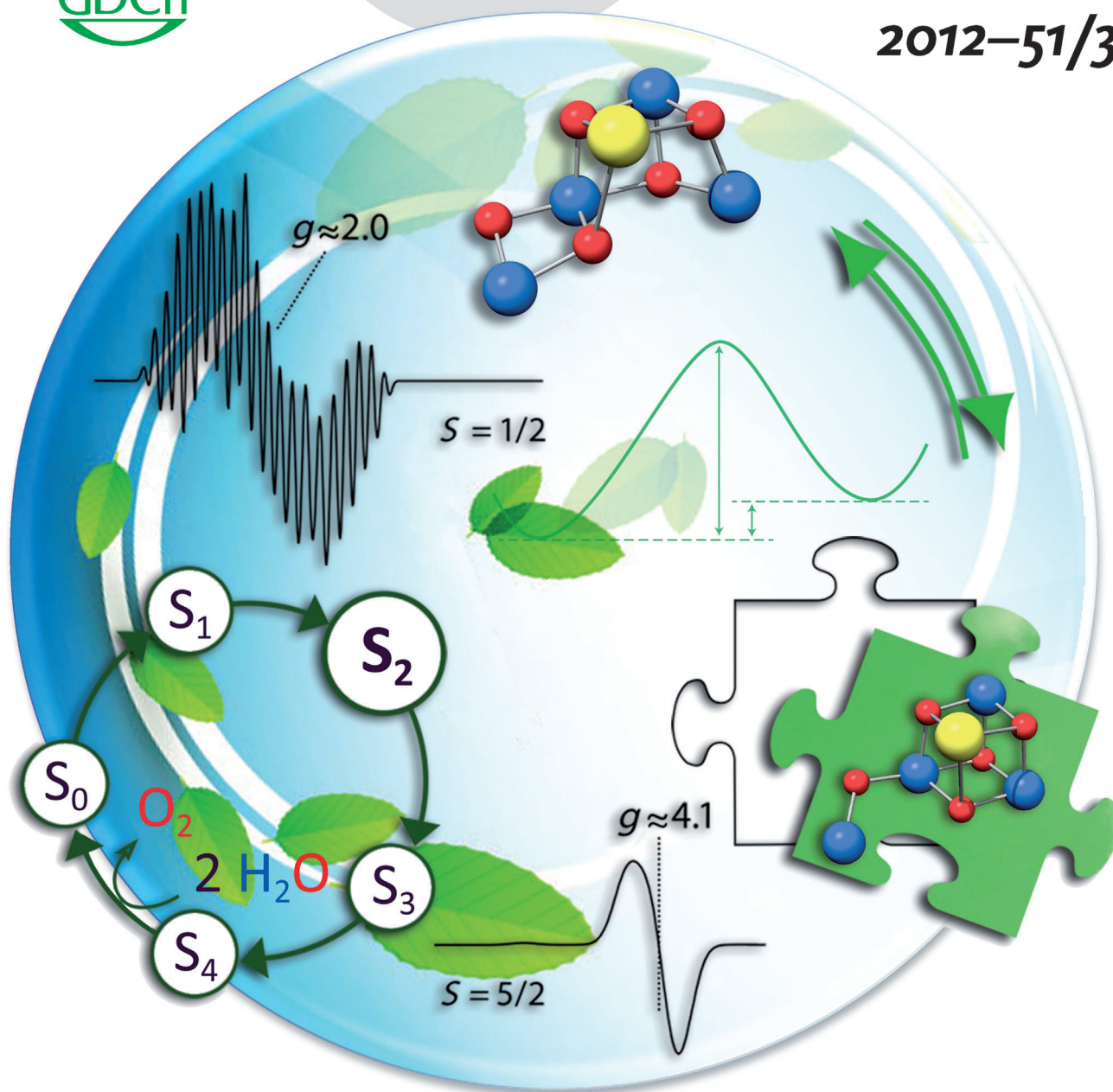
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The structural flexibility ...

... of water oxidase is demonstrated by a combination of quantum chemistry and spectroscopy. In their Communication on page 9935 ff., D. A. Pantazis, F. Neese et al. show that the core of the photosynthetic oxygen-evolving complex exists in two interconvertible structures with distinct spectroscopic properties. This solves the puzzle of the two interconvertible signals in the S_2 oxidation state of the catalyst, and paves the way for a deeper understanding of its function.

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