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Cover Picture: Kinetic, Thermodynamic, and Mechanistic Patterns for Free (Unbound) Cytochrome *c* at Au/SAM Junctions: Impact of Electronic Coupling, Hydrostatic Pressure, and Stabilizing/Denaturing Additives (Chem. Eur. J. 27/2006)

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Abstract

The cross-testing of the CytC intrinsic ET mechanisms at the Au/SAM junctions (hydroxy-terminated *n*-alkanethiol self-assembled monolayers) in the freely diffusing regime revealed a gradual turnover from the adiabatic to nonadiabatic mechanism through the intermediate regime. In their Full Paper on page 7041 ff., R. van Eldik, D. E. Khoshtariya et al. describe their investigations involving variation of the SAM thickness (n=2, 3, 4, 6, 11, with n=4 found to be a turnover point), the relative solution viscosity, and the hydrostatic pressure (up to 150 MPa).

Themes and Variations

In their Concept article on page 7018 ff., O. Wiest and P. J. Donoghue describe how the simplest chemical transformation imaginable, the transfer of a single electron to or from a molecule, can have implications on the concepts that provide the framework for thinking about the reactivity of that molecule.[1]

Single-Chain Magnets

In their Full Paper on page 7028 ff., H. Miyasaka, R. Clérac, and co-workers report on single-chain magnet behavior in a one-dimensional assembly of ferrimagnetically arranged Mn^{III} Schiff-base complexes and tetracyano-*p*-quinodimethane (TCNQ) radicals.[1]

Solid-Phase Synthesis

Synthesis of a novel glycolipid library derived from a strongly immunostimulatory rhamnolipid by hydrophobically assisted switching phase (HASP) synthesis is described by Rademann et al. on page 7116 ff. The rhamnolipids were tested for their immunostimulatory properties by assaying the secretion of tumor necrosis factor α (TNFα) from human mononuclear cells. The four most potent compounds are illustrated here. The structure–activity relationships of rhamnolipids indicate a specific, recognition-based mode of action.[1]

Citing Literature

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