## Angelyand Chemiker Angelyand Chemiker International Edition Algumal of the Gesellschaft Deutscher Chemiker Chemike

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## The electrochemical ...

... oxidation of molecular  $H_2$  is coupled to the enzymatic synthesis of ATP. In their Communication on page 6216 ff., A. L. De Lacey, M. Vélez, and co-workers show that ATP synthesis is achieved by  $F_1F_0$ -ATP synthase immobilized within a lipid bilayer covering a gold electrode. The proton gradient across the membrane required for ATP synthesis is generated by the electro-enzymatic oxidation of hydrogen gas performed by a bacterial hydrogenase also immobilized and oriented on the electrode.

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