

Publications principales – Laboratoire de chimie des processus biologiques

A Fully Noble Metal-Free Photosystem Based on Cobalt-Polyoxometalates Immobilized in a Porphyrinic Metal-Organic-Framework for Water Oxidation

G. Paille, M. Gomez-Mingot, C. Roch-Marchal, B. Lassalle-Kaiser, P. Mialane, M. Fontecave, C. Mellot-Draznieks, A. Dolbecq
J. Am. Chem. Soc. 2018, 140, 3613-3618

Pyranopterin Related Dithiolene Molybdenum Complexes as Homogeneous Catalysts for CO₂ Photoreduction

T. Fogeron, P. Retailleau, L.-M. Chamoreau, Y. Li, M. Fontecave
Angew. Chem. Int. Ed. Engl. 2018, 57, 17033-17037

Low-cost high efficiency system for solar-driven conversion of CO₂ to hydrocarbons

Huan Ngoc Tran, D. Alves Dalla Corte, S. Lamaison, L. Lutz, N. Menguy, M. Foldyna, S.-H. Turren-Cruz, A. Hagfeldt, F. Bella, M. Fontecave, V. Mougél
Proc. Natl. Acad. Sci. 2019, 116, 9735-9740

Bio-inspired hydrophobicity promotes CO₂ reduction on a Cu surface

D. Wakerley, S. Lamaison, F. Ozanam, N. Menguy, D. Mercier, P. Marcus, M. Fontecave, V. Mougél
Nature Materials 2019, 18, 1222-1227

Structural evidence for a [4Fe-5S] intermediate in the non-redox desulfuration of thiouracil

J. Zhou, L. Pecqueur, A. Aučynaitė, J. Fuchs, R. Rutkienė, J. Vaitekūnas, R. Meškys, M. Boll, M. Fontecave, J. Urbonavičius, B. Golinelli-Pimpaneau
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An enzymatic activation of formaldehyde for nucleotide methylation

C. Bou-Nader, F. W. Stull, L. Pecqueur, P. Simon, V. Guérineau, A. Royant, M. Fontecave, M. Lombard, B. A. Palfey, D. Hamdane
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