

Publications list – Dr. Alexis Bordet – 2019-04

2019

- Bordet, A., Landis, R., Lee, Y., Tonga, G., Asensio, J., Li, C., Fazzini, P.-F., Soulantica, K., Rotello, V., Chaudret, B. (2019). Water-Dispersible and Biocompatible Iron Carbide Nanoparticles with High Specific Absorption Rate *ACS Nano* 13(3), 2870-2878. <https://doi.org/10.1021/acsnano.8b05671>
- Rengshausen, S., Etscheidt, F., Großkurth, J., Luska, K.L., Bordet, A., Leitner, W. (2019). Catalytic Hydrogenolysis of Substituted Diaryl Ethers by Using Ruthenium Nanoparticles on an Acidic Supported Ionic Liquid Phase (Ru@SILP-SO₃H) *Synlett* 30(04), 405-412. <https://doi.org/10.1055/s-0037-1611678>

2018

- Offner-Marko, L., Bordet, A., Moos, G., Tricard, S., Rengshausen, S., Chaudret, B., Luska, K.L., Leitner, W. (2018). Bimetallic Nanoparticles in Supported Ionic Liquid Phases as Multifunctional Catalysts for the Selective Hydrodeoxygenation of Aromatic Substrates *Angewandte Chemie International Edition*, 57(39), 12721-12726. <https://doi.org/10.1002/anie.201806638>
- Bordet, A., Asensio, J.M., Soulantica, K., Chaudret, B. (2018). Enhancement of carbon oxides hydrogenation on iron-based nanoparticles by in-situ water removal *ChemCatChem*, 10(18), 4047-4051. <https://doi.org/10.1002/cctc.201800821>
- Niether, C., Faure, S., Bordet, A., Deseure, J., Chatenet, M., Carrey, J., Chaudret, B., Rouet, A. (2018). Improved Water Electrolysis Using Magnetic Heating of FeC–Ni Core–Shell Nanoparticles. *Nature Energy*, 3(6), 476-483. [Link](#)

2017

- Bordet, A., Soulantica, K., Chaudret, B. (2017) Iron Carbide Nanoparticles, Method for Preparing Same and Use Thereof for Heat Generation. *Patent N°WO2017103492A2*.

2016

- Bordet, A., Lacroix, L.-M., Fazzini, P.-F., Carrey, J., Soulantica, K., Chaudret, B. (2016). Magnetically Induced Continuous CO₂ Hydrogenation Using Composite Iron Carbide Nanoparticles of Exceptionally High Heating Power. *Angewandte Chemie International Edition*, 55(51), 15894-15898 [DOI: 10.1002/ange.201609477].
- Bordet, A., Lacroix, L.-M., K. Soulantica, K., Chaudret, B. (2016). A New Approach to the Mechanism of Fischer–Tropsch Syntheses Arising from Gas Phase NMR and Mass Spectrometry. *ChemCatChem*, 8(9), 1727-1731 [DOI: 10.1002/cctc.201600245].
- Luska, K. L., Bordet, A., Tricard, S., Sinev, I., Grünert, W., Chaudret, B., Leitner W. (2016). Enhancing the Catalytic Properties of Ruthenium Nanoparticle-SILP Catalysts by Dilution with Iron. *ACS Catalysis*, 6, 3719 [DOI: 10.1021/acscatal.6b00796].