

Publications (Gonzalo Prieto)

Scientific articles and book chapters

2016

R. van den Berg, G. Prieto, G. Korpershoek, L.I. Van der Wal, A.J. Van Bunningen, S. Lægsgaard-Jørgensen, P.E. de Jongh, K.P. de Jong. *Structure Sensitivity of Cu and CuZn Catalysts Relevant to Industrial Methanol Synthesis*. **Nature Communications**, 7 (2016) 13057. doi:10.1038/ncomms13057.

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N. Duyckaerts, I.-T. Trotus, A.-C. Swertz, F. Schüth, G. Prieto. *In Situ Hydrocracking of Fischer–Tropsch Hydrocarbons: CO-Prompted Diverging Reaction Pathways for Paraffin and α -Olefin Primary Products*. **ACS Catalysis**, 6 (2016) 4229-4238. doi:10.1021/acscatal.6b00904.

C.J. Gommès, G. Prieto, P.E. de Jong. *Small-Angle Scattering Analysis of Empty or Loaded Hierarchical Porous Materials*. **The Journal of Physical Chemistry C**, 120(3) (2016) 1488-1506. doi:10.1021/acs.jpcc.5b09556.

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G. Prieto, F. Schüth, *Bridging the gap between insightful simplicity and successful complexity: from model systems to technical catalysts*. **Journal of Catalysis** 328 (2015) 59-71. DOI: http://dx.doi.org/10.1016/j.jcat.2014.12.009.

T. Rodenas[†], I. Luz[†], G. Prieto[†], B. Seoane, H. Miro, A. Corma, F. Kapteijn, F.X. Llabrés i Xamena, J. Gascon. *Metal-organic-framework nanosheets in polymer composite materials for gas separation applications*. **Nature Materials** 14 (2015) 48-55. ([†]: equally contributing, co-first authors). DOI:10.1038/NMAT4113.

G. Prieto. *3D imaging methods for membranes*. Chapter in **Encyclopedia of Membranes** (2015), E. Drioli, L. Giorno (Eds.), Springer. ISBN: 978-3-662-44323-1.

G. Prieto. *FIB-SEM tomography for membranes*. Chapter in **Encyclopedia of Membranes** (2015), E. Drioli, L. Giorno (Eds.), Springer. ISBN: 978-3-662-44323-1.

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M. Shakeri, L. Roiban, V. Yazerski, G. Prieto, R.J.M. Klein Gebbink, P.E. de Jongh, K.P. de Jong. *Engineering and sizing nanoreactors to confine metal complexes for enhanced catalytic performance*. **ACS Catalysis** 4 (2014) 3791-3796. DOI: 10.1021/cs500777q.

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G. Prieto, S. Beijer, M.L. Smith, M. He, Y. Au, Z. Wang, D.A. Bruce, K.P. de Jong, J.J. Spivey, P.E. de Jongh. *Design and Synthesis of Copper–Cobalt Catalysts for the Selective Conversion of Synthesis Gas to Ethanol and Higher Alcohols*. **Angewandte Chemie International Edition** 53 (2014) 6397–6401. DOI: [10.1002/anie.201402680](https://doi.org/10.1002/anie.201402680).

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