
Publications 2020

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"Harnessing composition of iron oxide nanoparticle : impact of solvent mediated ligand-ligand interaction and of competition between oxidation and growth kinetics"

Chem. Mater. 32 (2020) 9245-9259

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M. J. Dzara, K. Artyushkova, **M. T. Sougrati**, C. Ngo, M. A. Fitzgerald, A. Serov, B. Zulevi, P. Atanassov, F. Jaouen & S. Pylypenko

"Characterizing Complex Gas-Solid Interfaces with in Situ Spectroscopy : Oxygen Adsorption Behavior on Fe-N-C Catalysts"

Journal of Physical Chemistry C 124 (2020) 16529-16543

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Duboscq, M., **Abdelmoula, M.**, Remazeilles, C., Jeannin, M., Sabot, R. & Refait, Ph.

"On the formation and transformation of Fe(III)-containing chukanovite, $Fe_{1-2-x}Fe_{1+x}(OH)_2 \cdot xO \cdot CO_3$ "

Journal of Physics and Chemistry of Solids 138 (2020) 109310

[DOI : 10.1016/j.jpccs.2019.109310](https://doi.org/10.1016/j.jpccs.2019.109310)

F. Eveillard, C. Gervillie, C. Taviot-Gueho, F. Leroux, K. Guerin, **M. T. Sougrati**, S. Belin & D. Delbecq

"Unravelling lithiation mechanisms of iron trifluoride by operando X-ray absorption spectroscopy and MCR-ALS chemometric tools"

New Journal of Chemistry 44 (2020) 10153-10164

[DOI : 10.1039/c9nj06321h](https://doi.org/10.1039/c9nj06321h)

M. Fehse, D. Bessas, A. Mahmoud, A. Diatta, R. P. Hermann, L. Stievano & **M. T. Sougrati**

"The Fe⁴⁺/³⁺ redox mechanism in NaFeO₂ : A simultaneous operando Nuclear Resonance and X-ray Scattering study"

Batteries & Supercaps 3 (2020) 1341-1349

[DOI : 10.1002/batt.202000157](https://doi.org/10.1002/batt.202000157)

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"Stable, Active, and Methanol-Tolerant PGM-Free Surfaces in an Acidic Medium : Electron Tunneling at Play in Pt/FeNC Hybrid Catalysts for Direct Methanol Fuel Cell Cathodes"

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