

Mathis Duguet - PhD student (3rd year)

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Research activity:

« Hybrid composite POM@MOFs photosystems for energy conversion »

Education:

2018 – current: Thesis in Material chemistry, Université de Versailles St-Quentin (UVSQ), Versailles, France

2018: Master in Chemistry, major in Physical-Chemistry and catalysis, Ecole Normale Supérieure de Lyon and Université Claude Bernard Lyon 1, Lyon, France

2016: Bachelor in Chemistry, Université de Bordeaux, Bordeaux, France

2016 – 2018: Chemistry student, Ecole Normale Supérieure de Lyon (ENS de Lyon), Lyon, France

Previous Research activities:

2018: Institut de Recherche pour la Catalyse et l'Environnement de Lyon (IRCELYON), Lyon, France: Thermodynamic and kinetic study of photocatalytic dehydrogenation of different alcohol with M/TiO₂ catalysts.

2017: Yurii Gun'ko's group, Trinity College Dublin, Dublin, Ireland: Chiral recognition and catalysis applications for AuAg chiral nanowires

Publications:

2020

Florian Michael Wisser, **Mathis Duguet**, Quentin Perrinet, Ashta Chandra Ghosh, Marcelo Alves-Favaro, Yorck Mohr, Chantal Lorentz, Elsje Alessandra Quadrelli, Regina Palkovits, David Farrusseng, Caroline Mellot-Draznieks, Vincent De Waele, and Jérôme Canivet. *Angewandte Chemie International Edition*, **2020**, 59, 2-9. 'Molecular Porous Photosystems Tailored for Long-Term Photocatalytic CO₂ Reduction'

Youven Benseghir, Alex Lemarchand, **Mathis Duguet**, Pierre Mialane, Maria Gomez-Mingot, Catherine Roch-Marchal, Thomas Pino, Minh-Huong Ha-Thi, Mohamed Haouas, Marc Fontecave, Anne Dolbecq, Capucine Sassoie and Caroline Mellot-Draznieks. *Journal of the American Chemical Society*, **2020**, 142, 20. 'Co-immobilization of a Rh Catalyst and a Keggin Polyoxometalate in the UiO-67 Zr-Based Metal–Organic Framework: In Depth Structural Characterization and Photocatalytic Properties for CO₂ Reduction'

Mathis Duguet, Alex Lemarchand, Youven Benseghir, Pierre Mialane, Maria Gomez-Mingot, Catherine Roch-Marchal, Mohamed Haouas, Marc Fontecave, Caroline Mellot-Draznieks, Capucine Sassoie and

Anne Dolbecq. *Chemical Communications*, **2020**, 56, 10143-10146. 'Structure-directing role of immobilized polyoxometalates in the synthesis of porphyrinic Zr-based metal-organic frameworks'

2019

Mathis Duguet, Poléthis, **2019**, 2, 22. 'La chimie fondamentale à l'ombre de la publication scientifique : l'exemple de la synthèse des matériaux.'