

**Dr. Dilan KARAPINAR**

**(Post-doctoral Research Fellow)**

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## RESEARCH ACTIVITIES

- Electrocatalysis
- Spectroelectrochemistry
- CO<sub>2</sub> reduction for renewable fuel
- Electrode fabrication
- Carbon and metal-based material synthesis
- Scientific outreach

## Summary

Currently, I am working on project based on carbon and metal-based heterogeneous catalysts for carbon dioxide reduction to hydrocarbon fuels, conducted in partnership with TOTAL. I have worked on the synthesis of these materials and their subsequent optimization and development for this potentially revolutionary field of research. I have been also involved in design and optimization of electrolyzer in order to get energy efficient systems. I have involved in the communication ideas and information (reports, papers and patents) in writing and presenting to the senior colleagues and public figures and in international conferences.

## Publications

- D. Karapinar, A. Zitolo, T. N. Huan, S. Zanna, D. Taverna, L. H. Galvão Tizei, D. Giaume, P. Marcus, V. Mougel, M. Fontecave, *ChemSusChem* **2020**, 13, 173-179.
- D. Karapinar, N. T. Huan, N. Ranjbar Sahraie, J. Li, D. Wakerley, N. Touati, S. Zanna, D. Taverna, L. H. Galvão Tizei, A. Zitolo, F. Jaouen, V. Mougel, M. Fontecave, *Angew. Chem. Int. Ed.* **2019**, 58, 15098.
- D. Karapinar, N.-H. Tran, D. Giaume, N. Ranjbar, F. Jaouen, V. Mougel, M. Fontecave, *Sustainable Energy & Fuels* **2019**, 3, 1833-1840.
- T. N. Huan, D. A. Dalla Corte, S. Lamaison, D. Karapinar, L. Lutz, N. Menguy, M. Foldyna, S.-H. Turren-Cruz, A. Hagfeldt, F. Bella, M. Fontecave, V. Mougel, *Proceedings of the National Academy of Sciences* **2019**, 116, 9735.