

Yaocihuatl MEDINA-GONZALEZ

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| 01/2019 | Habilitation à Diriger des Recherches from the Institut National Polytechnique de Toulouse |
| 2012-present | CNRS Research Scientist |
| 2010-2012 | Attachée Temporaire à l'Enseignement et la Recherche at the INP Toulouse/ Bordeaux University |
| 2009-2010 | Postdoctoral researcher at Western University, (Ontario, Canada) |
| 2007-2009 | Postdoctoral researcher at Chemical Eng. Laboratory (Toulouse, France) |
| 2003-2006 | PhD at INP Toulouse |
| 2002-2003 | MSc Chemical Engineering at Universidad Nacional Autonoma de México (UNAM, Mexico). |
| 2000-2001 | Chem. Eng. at Universidad Nacional Autonoma de México (UNAM, Mexico) |

AWARDS

2015 "INP INNOV" award in H2020 category

SOME SCIENTIFIC PUBLICATIONS

1. Controlling solvation and mass transport properties of bio-based solvents through CO₂-expansion: A physicochemical and molecular modelling study. E. Granero-Fernandez, C. Lacaze-Dufaure, J-S Condoret, V. Gerbaud*, Y. Medina-Gonzalez*, *Ind. Eng. Chem. Res.* (2019) Accepted, DOI: 10.1021/acs.iecr.9b02218
2. Palladium nanoparticles stabilized by novel choline-based ionic liquids in glycerol applied in hydrogenation reactions. G. Garg, S. Foltran, I. Favier, D. Pla, Y. Medina-Gonzalez*, M. Gomez*, (2019), *Cat. Today*. Accepted, DOI: 10.1016/j.cattod.2019.01.052.
3. Chemoenzymatic synthesis of polypeptides in neat 1,1,1,2-tetrafluoroethane solvent, I. S. Aguirre-Díaz, C. Montiel, I. Bustos-Jaimes, Y. Medina-Gonzalez, A. Tecante, M. Gimeno, *RSC Adv.*, (2018), 8, 35936-35945, DOI: 10.1039/C8RA06657D.
4. CO₂-expanded alkyl acetates: physicochemical and molecular modeling study and applications in chemical processes. E. Granero-Fernandez, D. Machin, C. Lacaze-Dufaure, S. Camy, J-S. Condoret, V. Gerbaud, P. Charpentier, Y. Medina-Gonzalez*, *ACS Sust. Chem. and Eng.* (2018) 6, 6, 7627-7637. DOI: 10.1021/acssuschemeng.8b00454
5. Molecular dynamics simulations of Gas-Expanded Liquids, E. Granero-Fernandez, J-S; Condoret, V. Gerbaud*, Y. Medina-Gonzalez*, *Comp. Aid. Chem. Eng.* (2017), 40, 175-180. DOI: 10.1016/B978-0-444-63965-3.50031-3
6. Modulating biocatalytic activity towards sterically bulky substrates in CO₂-expanded bio-based liquids by tuning physicochemical properties, Hai N. Hoang, E. Granero-Fernandez, S. Yamada, S. Mori, H. Kagechika, Y. Medina-Gonzalez*, T. Matsuda*. *ACS Sust. Chem. and Eng.* (2017) 5, 11, 11051-11059. DOI: 10.1021/acssuschemeng.7b03018

OTHER PUBLICATIONS

1. « L'ingénierie des solvants verts, une stratégie pour des procédés chimiques durables » in book : *Inventer l'avenir, l'ingénierie se met au vert*, CNRS Editions, 2019.
2. « Catalytic hydrogenation in compressed carbon dioxide: engineering and chemistry » in book « *Green Chemistry for the Sustainable Development of Chemical Industry: Carbon dioxide Capture and Utilization* », Springer, *In Press*.