

I am a research director at CNRS (The National Center for Scientific Research, France) working on the thermochemical conversion of biomass and wastes.

My main research interests are: fundamentals of biomass and plastics pyrolysis (by mass spectrometry, in-situ analysis, etc.), reactivity of carbons, catalysis for tar reforming or bio-oil hydrodeoxygenation, development of pyrolysis, liquefaction and gasification reactors, interdisciplinary assessment of bioenergy routes.

I was instrumental in organising the international conferences PYRO2016, ISGA2021 (with G. Mauviel) and PyroLiq2019 and 2023 (with F. Berruti, M. Garcia-Perez and W. Prins). I have collaborated with 100+ researchers. I currently work with various industrial companies on the development of pyrolysis or gasification processes. I served as an editor of Journal of Analytical & Applied Pyrolysis (Elsevier) from 2017 to 2020. I am currently executive editor of Energy & Fuels (American Chemical Society).