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SHORT BIO:

Mathias Barreau earned his PhD in 2017 from the University of Poitiers (France), specializing in catalysis for NO_x treatment in vehicle exhaust systems. Following his doctoral studies, he undertook two years of postdoctoral research at Sorbonne University, focusing on surface science. In 2019, he joined the Institute for Chemistry and Processes for Energy, Environment, and Health at Strasbourg University, where he contributed as a postdoctoral researcher to pioneering investigations for CO₂ conversion using in situ/operando X-ray techniques.

Currently, he is an associate professor at the University of Caen Normandie and a member of the Center for Zeolites and Nanoporous Materials. His research focuses on the synthesis of nanostructured metal oxides and zeolites for heterogeneous catalysis, with a strong emphasis on small molecule activation. He is particularly focused on advancing in situ/operando characterization techniques to unravel catalytic processes at the molecular level.