



## Michael Sachs

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### Bio

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#### BIO

Michael is a researcher at the interface between chemistry, physics, and data science. He develops advanced catalysts for the sunlight-driven production of sustainable fuels, with a particular focus on visible-light-active materials. Leveraging time-resolved techniques, he tracks the movement of charges in real time and on an atomic scale to build a comprehensive picture of a catalyst's function.

Complemented by extensive computational modelling, the resulting electronic and structural dynamics provide insights into how charges separate, move, and ultimately drive desired chemical transformations. By identifying reactive intermediates and monitoring their temporal evolution, his work informs the rational design of next-generation catalytic systems.