



Contribution ID: 149

Type: **Poster**

Spectroscopic and structural characterization of molecular organic frameworks for heterogeneous catalysis

Tuesday, 15 March 2022 18:14 (1 minute)

This research aims at the local structure characterization of carbon-nitrogen polymers which function as support materials for single-atom catalysts as well as the as-synthesized catalysts. Here, the focus lies on graphitic carbon nitride on which 1wt.% Pd was immobilized. Different structural and spectroscopic methods like pair distribution function analysis and X-ray photoelectron spectroscopy were applied in order to draw structure-performance relationships.

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Session Classification: Postersession

Track Classification: Main conference: Structural Chemistry & New crystal structures