

## **Hiroyuki Asakura**

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**Research topics** Development of oxygen storage materials, electrocatalysts, and new XAS-based analysis techniques

**Professional career** **Senior Lecturer**

Kindai University, Higashi-Osaka, Japan (April 1, 2022 – Present)

**Program-specific Senior Lecturer**

Kyoto University, Kyoto, Japan (November 1, 2018 – March 31, 2022)

**Program-specific Assistant Professor**

Kyoto University, Kyoto, Japan (April 1, 2016 – October 31, 2018)

**Designated Research Associate**

Nagoya University, Nagoya, Japan (April 1, 2012 – March 31, 2016)

**Education**

**Ph.D in Engineering**

Kyoto University, Kyoto, Japan (March, 2015)

**Graduate student**

Kyoto University, Kyoto, Japan (April 1, 2008 – March 31, 2012)

**Undergraduate student**

Kyoto University, Kyoto, Japan (April 1, 2004 – March 31, 2008)

**Recent publication** Real-time Observation of the Effect of Oxygen Storage Material on Pd-based Three-Way Catalysts under Ideal Automobile Exhaust Conditions: An Operando Study

**H. Asakura** *et al.*, *Catal. Sci. Technol.*, 2021, 11, 6182-6190.

Oxygen Release and Storage Property of Fe-Al Spinel Compounds: A Three-Way Catalytic Reaction over a Supported Rh Catalyst

K. Fujita, **H. Asakura** *et al.*, *ACS Appl. Mater. Interfaces*, 2021, 13, 21, 24615-24623.