

## [IT-6. Environmental electron microscopy](#)

10 September, 16:45 - 18:45 / 11 September, 16:30 - 18:30

### **IT-6-P-1552**

#### **In situ and related TEM techniques for the characterization of chemically synthesized nanomaterials**

Presenting author: **Kamino T.**

*Authors: Kamino T., Shimizu T., Yaguchi T.*

### **IT-6-P-1598**

#### **Quasi in situ TEM characterization of Ni reduction in regenerated Ni/alumina catalysts**

Presenting author: **Gay A. S.**

*Authors: GAY A. S., DUBREUIL A. C., BROURI D., MASSIANI P.*

### **IT-6-P-1815**

#### **Development of a TEM specimen holder system for catalytic materials**

Presenting author: **Hashimoto A.**

*Authors: Hashimoto A., Takeguchi M.*

### **IT-6-P-1924**

#### **Dynamic Observation of Gold Particles in Water by Environmental-cell TEM**

Presenting author: **Kawasaki T.**

*Authors: Kawasaki T., , Imaeda N., Murase H., Yamasaki K., Matsutani T., Tanji T.,*

### **IT-6-P-1943**

#### **The Study of Ice Impurities Using the Environmental Scanning Electron Microscopy at Higher Pressures and Temperatures.**

Presenting author: **Neděla V.**

*Authors: Neděla V., Runštuk J., Klán P., Heger D.*

### **IT-6-P-1959**

#### **The Atmospheric Scanning Electron Microscope (ASEM) Observes Axonal Segmentation and Platelet Generation in Solution.**

Presenting author: **Sato C.**

*Authors: Kinoshita T., Motohashi H., Hirano K., Maruyama Y., Kawata M., Ebihara T., Sato M., Nishiyama H., Suga M., Yamamoto M., Nishihara S., Sato C.*

### **IT-6-P-1960**

#### **Time-resolved Observations of Single Protein's Motions Using Diffracted Electron Tracking (DET) with Wet Cell SEM**

Presenting author: **Ishikawa A.**

*Authors: Ishikawa A., Ogawa N., Hirohata Y., Yohda M., Sekiguchi H., Sasaki Y. C.*

### **IT-6-P-1968**

#### **Investigation of hexagon shape nanoparticle growth mechanism using in-situ liquid Cell TEM**

Presenting author: **Ahn T.**

*Authors: Ahn T., Kim Y., Hong P., Nam K., Kim Y.*

#### **IT-6-P-2009**

##### **Development and application of environmental high voltage electron microscope**

Presenting author: **Wakasugi T.**

*Authors: Wakasugi T., Isobe S., Wang Y., Hashimoto N., Ohnuki S.*

#### **IT-6-P-2220**

##### **TEM Imaging of CO Oxidation Catalyst of Gold Nanoparticle on TiO<sub>2</sub> in CO and O<sub>2</sub> Environments**

Presenting author: **Tanaka T.**

*Authors: Tanaka T., Yamamoto N., Takayanagi K.,*

#### **IT-6-P-2380**

##### **Controlled environment specimen transfer for investigation of catalysts by ETEM**

Presenting author: **Damsgaard C. D.**

*Authors: Damsgaard C. D., Zandbergen H., Hansen T. W., Chorkendorff I., Wagner J. B.*

#### **IT-6-P-2451**

##### **Aberration-Corrected, Environmental TEM Studies on Carbon Nanotube Oxidation and the Influence of the Imaging Electron Beam**

Presenting author: **Koh A. L.**

*Authors: Koh A. L., Gidcumb E., Zhou O., Sinclair R.,*

#### **IT-6-P-2499**

##### **Carbon gasification by silver nanoparticles followed in situ at atomic resolution under oxygen partial pressure in an Environmental TEM (ETEM)**

Presenting author: **Epicier T.**

*Authors: EPICIER T., CADETE SANTOS AIRES F. J., AOUINE M., LANGLOIS C., BLANCHARD N.*

#### **IT-6-P-2722**

##### **Development Aberration Corrected Wet-ETEM System and Its Application to Pt/Carbon Fuel Cell Catalysts in Moisturized Gases Environments**

Presenting author: **Yoshida K.**

*Authors: Yoshida K., Zhang X., Hiroyama T., Boyes E. D., Gai P. L.,*

#### **IT-6-P-2774**

##### **Experimental evaluation of Environmental Scanning Electron Microscopes at high chamber pressure [200 - 4000 Pascal]**

Presenting author: **Rattenberger J.**

*Authors: Rattenberger J., Fitzek H., Schroettner H., Wagner J., Hofer F.*

#### **IT-6-P-3009**

##### **Multi-slice simulations for in-situ HRTEM studies of nanostructured magnesium hydride at elevated hydrogen pressures of 1 bar**

Presenting author: **Rellinghaus B.**

*Authors: Surrey A., Schultz L., Rellinghaus B.*

#### **IT-6-P-3318**

##### **Understanding catalytic properties of nanoalloys by using aberration corrected electron microscopy in gaseous environment**

Presenting author: **Ricolleau C.**

*Authors: Ricolleau C., Nelayah J., Nguyen N., Prunier H., Wang G., Piccolo L., Alloyeau D.*

**IT-6-P-5740**

**Cultivation and Observation of HeLa Cells in the Microfluidic Environmental Electron Microscopy**

Presenting author: **Huang Y. C.**

*Authors: Huang Y. C., Ma T. W., Huang T. W., Liu S. Y., Chen F. R., Tseng F. G., Chuang Y. J.*

**IT-6-P-5803**

**ETEM observation of degradation of platinum and platinum-cobalt alloy nanoparticle electrocatalysts on carbon black**

Presenting author: **Nagashima S.**

*Authors: Nagashima S., Kang Y., Yoshida K., Hiroyama T., Liu K., Ikai T., Kato H., Nagami T., Kishita K., Yoshida S.*