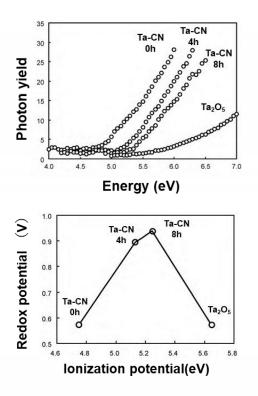


Novel Non-noble Cathodes for Polymer Electrolyte Fuel Cell



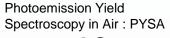
Ionization potential analysis of fuel cell electrode materials by AC-3

Prof. Ishihara and co-workers from Yokohama National University, reported their study on Electrochimica Acta, which was about non-noble fuel cell electrode using a new Ta-O based material^[1].

Though Pt drew a lot of attraction as a fuel cell catalysts, it is essential to develop a new nonnoble material instead of using Pt due to its high price,. Prof. Ishihara and co-workers treated Ta-CN with high temperature condition under an oxygen atmosphere and succeeded in its catalytic performance enhancement. By compared its redox potential to ionization potential, which is measured by AC-3, the best treatment condition was known from a volcanic-related plot.

Therefore, AC-3 can be your best partner and contribute to those advanced materials development.

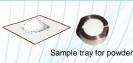
^[1] A. Ishihara, M. Tamura, K. Matsuzawa, S. Mitsushima, K. Ota, *Electrochimica Acta*, 55(2010), 7581-7589







Features



- No need for vacuum, can measure in air → Various types of samples available without any pre-treatment.
- Further range for more applications

 → Measure ranges from 4.0 to 7.0 eV, capable for more materials.

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