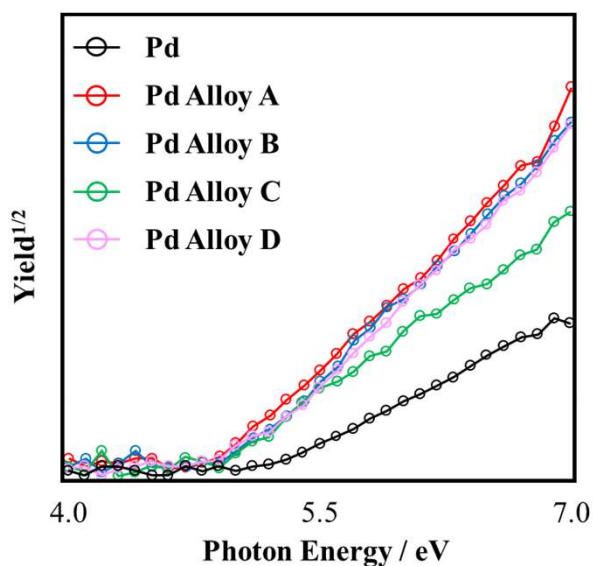


Various Pd-Based Alloys for Electrocatalytic CO₂ Reduction Reaction



Result of WF analysis by AC-3^[1]

【Work function analysis of electrocatalyst materials by AC-3】

Gunji and co-workers measured the work function of various Pd-based alloys for electrocatalytic CO₂ reduction materials with AC-3 and reported their study on Chemistry of Materials^[1].

The CO₂ reduction reaction is dragging many attractions nowadays when many countries are claiming the carbon neutral plan.

Gunji and co-workers succeeded in the synthesis of Pd-based electrocatalysts and reduced the CO₂ into CO and HCOOH with prepared catalysts. And by measuring the work function of those catalysts with AC-3, an obvious relationship between the products selectivity and the work function was found.

With this result, AC-3 is proved to be so useful that contribute to those novel researches for climate problems.

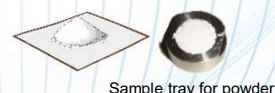
^[1] Takao Gunji, Hiroya Ochiai, Takahiro Ohira, Yubin Liu, Yoshiyuki Nakajima, and Futoshi Matsumoto, Chemistry of Materials 2020 32 (16), 6855-6863

Photoemission Yield Spectroscopy in Air : PYSA

Model : **AC-3**



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.

Riken Keiki Co., Ltd.

Overseas Business Department
2-7-6 Azusawa Itabashi-Ku,
Tokyo 174-8744 Japan
TEL : 81-3-3966-1113
FAX : 81-3-3558-9110
E-MAIL : intdept@rikenkeiki.co.jp

<https://www.rikenkeiki.co.jp/english>