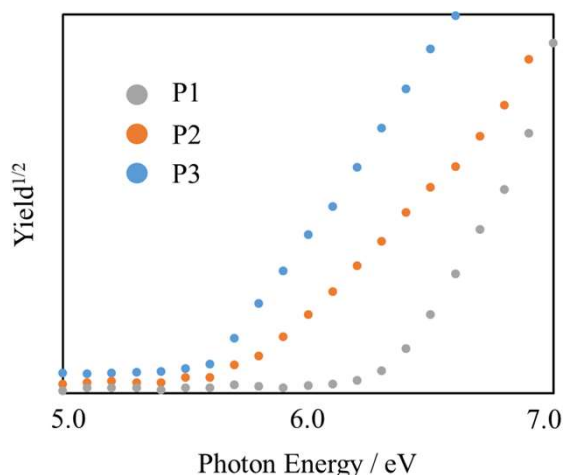


Synthesis of Conjugated Polymers by Metal-Free Dehydration Polycondensation



Result of HOMO level analysis by AC-3^[1]

【HOMO level analysis of polymer materials by AC-3】

Prof. Kuwabara and co-workers measured the HOMO level of synthesized polymer materials with AC-3 and reported their study on Macromolecules [1].

Prof. Kuwabara and co-workers succeeded in the synthesis of azine-based conjugated polymers, using a metal-free dehydration polycondensation method. It showed an efficient way to get the rid of the impurities, which is very important to enhance the performance and the durability of the organic electronic devices. And by measuring the HOMO level of those organic materials surfaces with AC-3, their physical properties were explained.

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

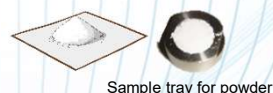
[1] Hiroki Murakami, Kyoya Kobayashi, Keita Suzuki, Takeshi Yasuda, Takaki Kanbara, and Junpei Kuwabara, Macromoles, 2021, 54, 11281-11288

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.

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