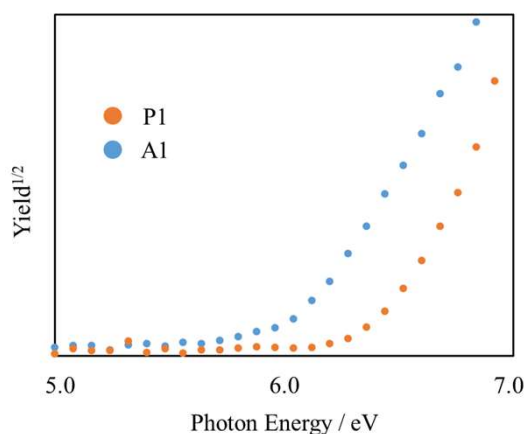


# One-Pot Synthesis of Triazatriphenylene Using the Povarov Reaction



Result of HOMO level analysis by AC-3<sup>[1]</sup>

## 【HOMO level analysis of organic materials by AC-3】

Prof. Kuwabara and co-workers measured the HOMO level of synthesized organic materials with AC-3 and reported their study on The Journal of Organic Chemistry [1].

To increase the production of organic polymer materials, using a suitable synthesis route is a very important point.

Prof. Kuwabara and co-workers succeeded in the synthesis of triazatriphenylene, which is known as the OLED materials, using the one-pot Povarov reaction. And by measuring the HOMO level of those organic materials surfaces with AC-3, physical property was explained.

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

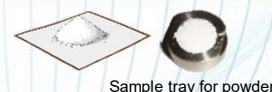
[1] Sachie Yamamoto, Zong Yang Zhou, Goki Hiruta, Katsuhiko Takeuchi, Jun-Chul Choi, Takeshi Yasuda, Takaki Kanbara, and Junpei Kuwabara, The Journal of Organic Chemistry, 2021, 86, 7920-7927

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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