

Oral Presentation

[FLX6]Advanced Process and Evaluation for Flexible Electronics

Chair: Tadahiro Furukawa (Yamagata University)

Co-Chair: Akira Nakazawa (AGC Inc.)

Fri. Nov 29, 2019 3:00 PM - 4:00 PM Room 204 (2F)

3:00 PM - 3:25 PM

[FLX6-1(Invited)]Solution-Processing of Inorganic and Hybrid Materials for High Performance Flexible Electronics

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Keywords:Hybrid Material, Solution Processing, Thin-film Transistor, Metal Chalcogenide

To improve the electrical properties in solution-processed high-performance, large-area flexible electronics, we employed hybrid structures of a multifunctional organic-semiconductor/amorphous oxide semiconductor, nanomaterials/amorphous oxide semiconductors, and chalclo-gel. With the novel hybrid structures and new processing strategy, we could demonstrate enhancement of mobility, electrical stability, and exceptional mechanical stability.