

**[TuB3] OPV IV****Date / Time** July 3 (Tue.), 2018 / 15:55-17:50**Place** Room B (#106)**Session Chair** Nir Tessler (Technion, Israel)**TuB3-I1 (Invited)**

15:55-16:20

**Understanding Open-Circuit Voltage of Organic Solar Cells**

Thuc-Quyen Nguyen

*Univ. of California Santa Barbara, USA***TuB3-O2**

16:20-16:35

**Effect of Fluorination on Polymer Properties and Photovoltaic Performances in Nnaphthobisthiadiazole Polymers**Itaru Osaka<sup>1</sup>, Masahiko Saito<sup>1</sup>, Tomohiro Fukuhara<sup>2</sup>, Hiroyuki Ichikawa<sup>3</sup>, Hiroyuki Yoshida<sup>3</sup>, Hideo Ohkita<sup>2</sup>, Yutaka Ie<sup>4</sup>, and Yoshio Aso<sup>4</sup><sup>1</sup>Hiroshima Univ., Japan, <sup>2</sup>Kyoto Univ., Japan, <sup>3</sup>Chiba Univ., Japan, <sup>4</sup>Osaka Univ., Japan**TuB3-O3**

16:35-16:50

**Influence of Number and Topological Effect of Fluorine Substituents in Donor-Acceptor (D-A) Type of Polymers for Organic Electronics**

Mohammad Afsar Uddin and Han Young Woo

*Korea Univ., Korea***TuB3-O4**

16:50-17:05

**Printing of PCDTBT-Based Organic Solar Cells**Salima Alem<sup>1</sup>, Neil Graddage<sup>1</sup>, Jianping Lu<sup>1</sup>, Terho Kololuoma<sup>2</sup>, and Ye Tao<sup>1</sup><sup>1</sup>Nat'l Research Council Canada, Canada, <sup>2</sup>VTT, Finland**TuB3-O5**

17:05-17:20

**Achieving Balanced Open Circuit Voltage and Short Circuit Current by Tuning The Interfacial Energetics in Bulk Heterojunction Solar Cells**

Wenchao Yang

*Xinyang Normal Univ., China***TuB3-O6**

17:20-17:35

**Investigation of Energy Transfer Contribution to Exciton Losses by Means of Time-Resolved Optical and Paramagnetic Spectroscopy**Ahmed Hesham Balawi<sup>1</sup>, Zhipeng Kan<sup>1</sup>, Alberto Privitera<sup>2</sup>, Paola Guarracino<sup>2</sup>, Shengjian Liu<sup>1</sup>, Lorenzo Franco<sup>2</sup>, Pierre Beaujuge<sup>1</sup>, and Frédéric Laquai<sup>1</sup><sup>1</sup>KAUST, Saudi Arabia, <sup>2</sup>Univ. of Padua, Italy**TuB3-O7**

17:35-17:50

**Impact of Material-Solvent Interaction: Cubic-Like Bimolecular Crystal Evolution and A High Efficiency in Halogen-Free Ternary Organic Solar Cells**

Tanya Kumari, Sang Myeon Lee, and Changduk Yang

*UNIST, Korea*