Room G #107 8:30-10:30

[Fr-G1] Advanced and Highly Efficient Inorganic Photovoltaics Materials and Structures I
Session Chairs:
Yong-Duck Chung (ETRI, Korea),
Chan-Wook Jeon (Yeungnam Univ., Korea)

Fr-G1-1 [Invited] 8:30-8:55

Influence of Na Accumulation at the Localized Grain-Boundary in CIGS Absorbers

JinWoo Lee[1], Ryan Kaczynski[1], Jane Van Alsburg[1], Yejiao Wang[1], Bo Sang[1], Jeffrey Bitt[1], and Daniel Goran[2]
[1]Global Solar Energy Inc., USA, [2]Bruker Nano GmbH, Germany

Fr-G1-2 [Invited] 8:55-9:20

Effects of Alkali Metals in $Cu(In,Ga)Se_2$ Thin Films and Solar Cells

Shogo Ishizuka
AIST, Japan

Fr-G1-3 [Invited] 9:20-9:45

Study of Defects in $Cu(In,Ga)(S,Se)_2$-based Solar Cells

Takeaki Sakurai and Katsuhiro Akimoto
Univ. of Tsukuba, Japan

Fr-G1-4 [Invited] 9:45-10:10

Micro- and Nanometer Scale $Cu(In,Ga)Se_2$ for Photovoltaic Devices

Sascha Sadewasser
INL, Portugal

Fr-G1-5 [Invited] 10:10-10:35

Above 19% cell efficiency in $Cu(In,Ga)Se_2$ solar cell by employing a alkaline post deposition treatment (PDT) with Na_2S as a alkaline source

Seung Tae Kim[1], Byung Tae Ahn[1], Ki Hwan Kim[2], and Jae Ho Yun[2]
[1]KAIST, Korea, [2]KIER, Korea

Room H #108 8:30-10:30

[Fr-H1] Thin-Film Transistors
Session Chairs:
Chang-Yong Nam (BNL, USA),
Jae Kyeong Jeong (Hanyang Univ., Korea)

Fr-H1-1 [Invited] 8:30-9:00

Improvement in Peformance of Metal Oxide Thin-Film Transistors by Modifying a Channel Composition and Structure

Jae Kyeong Jeong
Hanyang Univ., Korea

Fr-H1-2 9:00-9:15

Characterization of the Self-Heating Effect in IGZO Thin Film Transistors using Pulse Measurements

Manh-Cuong Nguyen[1], Sang-woo Kim[1], Jaekyeong Jeong[2], Rino Choi[1], Nuri On[2], Hyungmin Ji[1], Hoang-Thuy-An Nguyen[1], Sujin Choi[1], Jonggyu Cheon[1], Kyoung-Mun Yu[1], Seong-Yeong Cho[1], and Jin-Hyun Kim[1]
[1]Inha Univ., Korea, [2]Hanyang Univ., Korea

Fr-H1-3 9:15-9:30

A New Solution-Processable BODIPY-Acetylene Semiconductor for N-Channel Organic Field-Effect Transistors

Dongil Ho and Choongik Kim
Sogang Univ., Korea

Fr-H1-4 9:30-9:45

Influence of High Doping Concentration on Contact Resistivity Measurement with Transmission Line Model and Circular Transmission Line Model

Hyunsu Shin, Seran Park, Eunjung Ko, and Dae-Hong Ko
Yonsei Univ., Korea

Fr-H1-5 9:45-10:00

Effect of Oxygen Content on the Stability of Nitrogen-Doped P-Type ZnO Films Fabricated by Reactive Magnetron Sputtering

Faizan Husian, Jian-yuan Chen, and Jyh-Shiarn Cherng
Ming Chi Univ. of Tech., Taiwan