



7th IEEE Electron Devices Technology and Manufacturing (EDTM) Conference 2023

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| 54A. Energy Materials and Devices | |
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| Session Date: | March 10(Fri.), 2023 |
| Session Time: | 13:15-14:25 |
| Session Room: | Room A (#301) |
| Session Chair: | Dr. Hyung-Seok Lee (Electronics and Telecommunications Research Institute) |
| | Prof. DongHan Seo (Korea Institute of Energy Technology) |

[54A-1] [Invited] 13:15-13:40

Physical Modelling of Ga₂O₃ Schottky Barrier Diodes (SBDs)

Nouredine Sengouga¹, Madani Labed^{1,2} and You Seung Rim²

¹University of Biskra, ²Sejong University

[54A-2] 13:40-13:55

Plasma Enhanced Atomic Layer Deposition of Crystalline BeO Films for Wide-Bandgap Semiconductors

Yoonseo Jang¹, Dohwan Jung¹, Christopher W. Bielawski^{2,3} and Jungwoo Oh¹

¹Yonsei University, ²Institute for Basic Science, ³Ulsan National Institute of Science and Technology

[54A-3] 13:55-14:10

Highly Flexible Piezoelectric Pressure Sensor at Extremely High-Temperature Range Using Ultrawide-Bandgap III-N Thin Films

Nam-In Kim, Miad Yarali, Muhammad Aqib and Jae-Hyun Ryou

University of Houston

[54A-4] 14:10-14:25

All-Solid-State Thin Film Lithium-Ion Battery with High Ionic Conductivity Material LiNbO₃ as Anode

Xuechen Hu, Fuhan Cui and Xiaodong Huang

Southeast University