SPECIAL SESSION

November 17 (Tue), 2026 · Room 103, Daejeon Convention Center (DCC)

# The 2nd Asia-Africa ($A^2$) Joint PV Symposium

| 12 | 11 | 5 | 4 |
|---|---|---|---|
| TALKS | COUNTRIES | KEYNOTES | SESSIONS |

**Chair:** Woo Kyoung Kim (Yeungnam University) · **Co-Chairs:** Daniel Ayuk Mbi Egbe (African Network for Solar Energy), Ammar Nayfeh (Khalifa University)












## WHY IT MATTERS

Twelve speakers from eleven countries across East Asia, Central Asia, the Middle East and Africa met in Daejeon for a full day of talks. Topics ranged from perovskite, organic and thin-film solar cells to colored BIPV, desert PV operation and solar kits for rural households, alongside R&D and industry perspectives. Led by chairs from Korea, Africa and the Middle East, the symposium strengthens the Asia–Africa PV research network toward global carbon neutrality.

### 11 COUNTRIES · 4 REGIONS

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| **East Asia** | Korea · China · Japan |
| **Central Asia** | Kazakhstan · Uzbekistan |
| **Middle East** | Türkiye · UAE |
| **Africa** | Ethiopia · Cameroon · South Africa · Morocco |

**9 of 12 speakers represent Africa, Central Asia and the Middle East.**

| TITLE | SPEAKER | AFFILIATION | COUNTRY |
|---|---|---|---|
| KEYNOTE CAST: An Open Innovation Platform for Next-Generation PV Technology | **Young Joo Eo** | Korea Institute of Energy Research | **Korea** |
| KEYNOTE Engineering Light at the Nanoscale: Plasmonic Strategies for Next-Generation Organic Photovoltaics | **Newayemedhin A. Tegegne** | Addis Ababa University | **Ethiopia** |
| Structural Color for BIPV: Color-Performance Trade-Off in Photonic-Glass-Based Colored PV Modules | **Alpan Bek** | Middle East Technical University | **Türkiye** |
| Design and Assembly of a low-cost Solar PV kit for rural households in Cameroon | **Jerome Ndam Mungwe** | University of Bamenda | **Cameroon** |
| Achieving 10.3% Efficiency in CZTSSe Solar Cells through Selenization and Zn Composition Engineering | **Bobur Ergashev** | Physical Technical Institute | **Uzbekistan** |
| Enhancing dye-sensitized solar cell performance by introducing Fe/Co into the B-site of $Sr_{0.7}Sm_{0.3}BO_{2.89}$ perovskite photoanodes | **Samantha Ndlovu** | University of KwaZulu-Natal | **South Africa** |
| KEYNOTE High-Performance Ambient-Air-Fabricated Perovskite Solar Cells | **Meicheng Li** | North China Electric Power University | **China** |
| KEYNOTE PV Industry and R&D Status in Japan: An Overview of NEDO's Activities | **Yoshiko Yamamoto** | New Energy and Industrial Technology Development Organization (NEDO) | **Japan** |
| Materials design for organic photovoltaics: A "conservative" approach in the study of the effect of alkoxy side chains | **Daniel A. M. Egbe** | African Network for Solar Energy (ANSOLE) | **Cameroon** |
| KEYNOTE Solar Photovoltaics in the UAE Current Status and Future Outlook | **Ammar Nayfeh** | Khalifa University | **UAE** |
| Solar Deployment in Desert and Mining Environments: Operational Challenges, Soiling Mitigation, and the Emerging PV R&D Ecosystem in Morocco | **Abdellatif Ghennioui** | Green Energy Park | **Morocco** |
| Radiation Stability of Perovskite Optoelectronic Devices under Ionizing Irradiation | **Askhat N. Jumabekov** | Nazarbayev University | **Kazakhstan** |