

Perovskite Solar Cells & LEDs

Development of advanced perovskite materials for the next generation of highly efficient solar cells and light-emitting diode (LED) applications.

Capabilities & Innovations

- Synthesis and formulation of highly stable perovskite crystalline structures.
- Development of various back-contact architectures (Ag, Al, Cu) to optimize conductivity and longevity.
- Formulation of Conductive Carbon Paints for cost-effective cell fabrication.
- Large-scale deposition techniques tailored for flexible and rigid substrates.
- Extensive environmental stability testing (humidity, thermal, and light soaking).
- Optimization of charge transport layers (ETL/HTL) to maximize power conversion efficiency (PCE).

