OIST OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY
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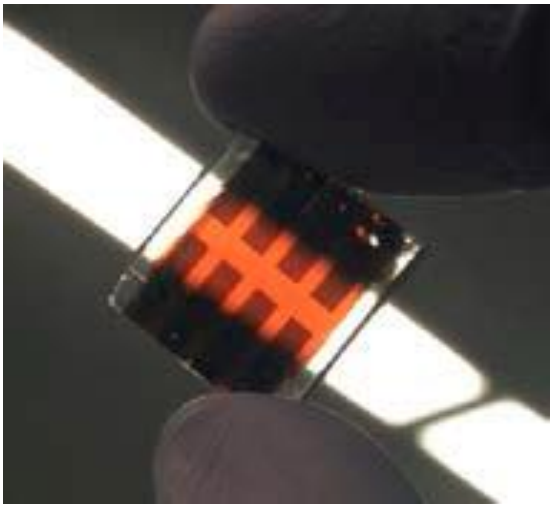
Chemical vapor deposition of perovskite for solar cells

Applications

- Perovskite devices
- Perovskite materials
- Dye-sensitized solar cells (DSSCs)



A perovskite solar cell fabricated using the method, exhibiting efficiencies of 15% and good stability even after a number of weeks.

Perovskite has attracted much attention as a 3rd generation solar cell material because of its low cost and its rapid increase in efficiency.
This technology is based on chemical vapor deposition (CVD), a well established technique of producing high quality, high-performance, solid materials and is compatible with large area substrates. In addition to the superior perovskite films that it can produce, increased reproducibility and process controllability offer a competitive advantage.

Benefits

- Perovskite uniformity
- Reproducibility/process control
- Stability
- Low cost/large area

Patent granted

Keywords

Perovskite, dye-sensitized solar cell, solar cell, low cost, large area

For more information

Business Development/Technology Licensing Section
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