

YAMAMOTO Kenji

Senior Officer, General Manager
Photovoltaic & Thin Film Device Research Laboratories
Kaneka Corporation

Nationality

Japanese

Career History

Kenji Yamamoto joined Kaneka Corporation in 1983 and engaged in research, development, and business of solar cells.

He has been researching solar cell and module as General Manager of Photovoltaic & Thin Film Device Research Laboratories in Kaneka Corporation and General Manager of Kaneka European Photovoltaics Laboratory in Kaneka Belgium N.V since 2009.

Research topics

2005 13.4% efficiency amorphous Si/micro-crystalline Si tandem solar cell module (3,827 cm²) confirmed at AIST with using newly developed interlayer

2014 11.8% efficiency amorphous Si/amorphous SiGe/micro-crystalline Si triple junction tandem solar cell module (15,634 cm²)

2016 26.6% record-breaking efficiency heterojunction crystalline back contact Si solar cell (HBC), 24.4% efficiency HBC module (13,177 cm²)

2022 21.5% perovskite solar cell minimodule (64 cm²). Over 30% efficiency perovskite/HBC tandem solar cell

Awards / Publications

PVSEC AWARD (2007)

Areas of expertise

Solar cell technology