Cheap, highly efficient hybrid solar cells

Technology Overview

- Inorganic-organic hybrid solar cells with world-record certified conversion efficiencies, and most performed PV among the hybrid solar cell class
- High-efficiency, low-cost for fabrication, colorful appearance
- Independent materials, architecture, and processing for the cells

Core Technologies

- Key materials and noble architecture for highly efficient inorganic-organic hybrid solar cells
- Band-gap & properties tuning by control of structures & compositions
- Fabrication of stable & robust inorganic-organic solar cells

Application Area and Advantages

- Top-cell for Si or CIGS solar cells
- Built-in photovoltaics and Light-weight motor vehicle applications
- Highest PV conversion efficiency among competitors
- Stable solar cells with colorful appearance at low costs

Accomplishments

- Publications in high impact journals including Nature, Nature Materials and Nature Photonics, and Strong IP-portfolios
- Looking for licensing & collaborative research opportunities