

## Accepted Manuscript

Title: Photovoltaic performance of dye-sensitized solar cells assembled with electrospun polyacrylonitrile/silica-based fibrous composite membranes

Author: Jinxing Zhao Sung-Geun Jo Dong-Won Kim

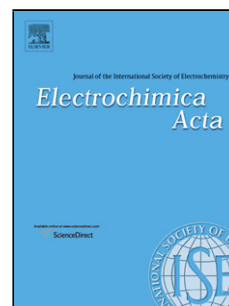
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## Highlights

Electrospun fibrous composite membranes composed of polyacrylonitrile and SiO<sub>2</sub> were prepared and characterized.

The fibrous composite membranes encapsulated a large amount of liquid electrolyte and exhibited high ionic conductivities.

The DSSC assembled with the fibrous composite membrane exhibited high conversion efficiency and good long-term stability.

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