Tohoku Univ. Technology

Light, transparent, flexible, Photoconversion device

Solar cell using transition metal Dichalcogenide

Overview

As an environmentally friendly solar cell, light, transparent, and flexible solar cells are required. However, a technique that satisfies these three points has not yet been reported.
On the other hand, a transparent solar cell using a semiconductor material such as transition metal dichalcogenide (TMD) has been proposed as a candidate that satisfies the above requirements.
The present invention relates to a light, transparent, and flexible photoelectric conversion device using a TMD, and further to a technology that enables provision of a transparent solar cell capable of enlarging an area by an inventor's ingenuity.

Features・Outstandings

The specification and technical details will be disclosed after concluding a contract including a confidentiality clause (an option contract), because the application has not been published.
=>Please feel free to contact us.

Product Application

☐ The invention are expected to use for the following applications
・Windows of buildings
・Sticking to smartphones, wearable devices, clothes and skin
・Flying vehicles such as drones and space
・Applications in agricultural fields such as plastic greenhouses

Related Works

[1] T. Akama, W. Okita, R. Nagai, C. Li, T. Kaneko, and T. Kato, Sci. Rep. 7, 11967 (2017)

IP Data

IP No. : Unpublished application
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