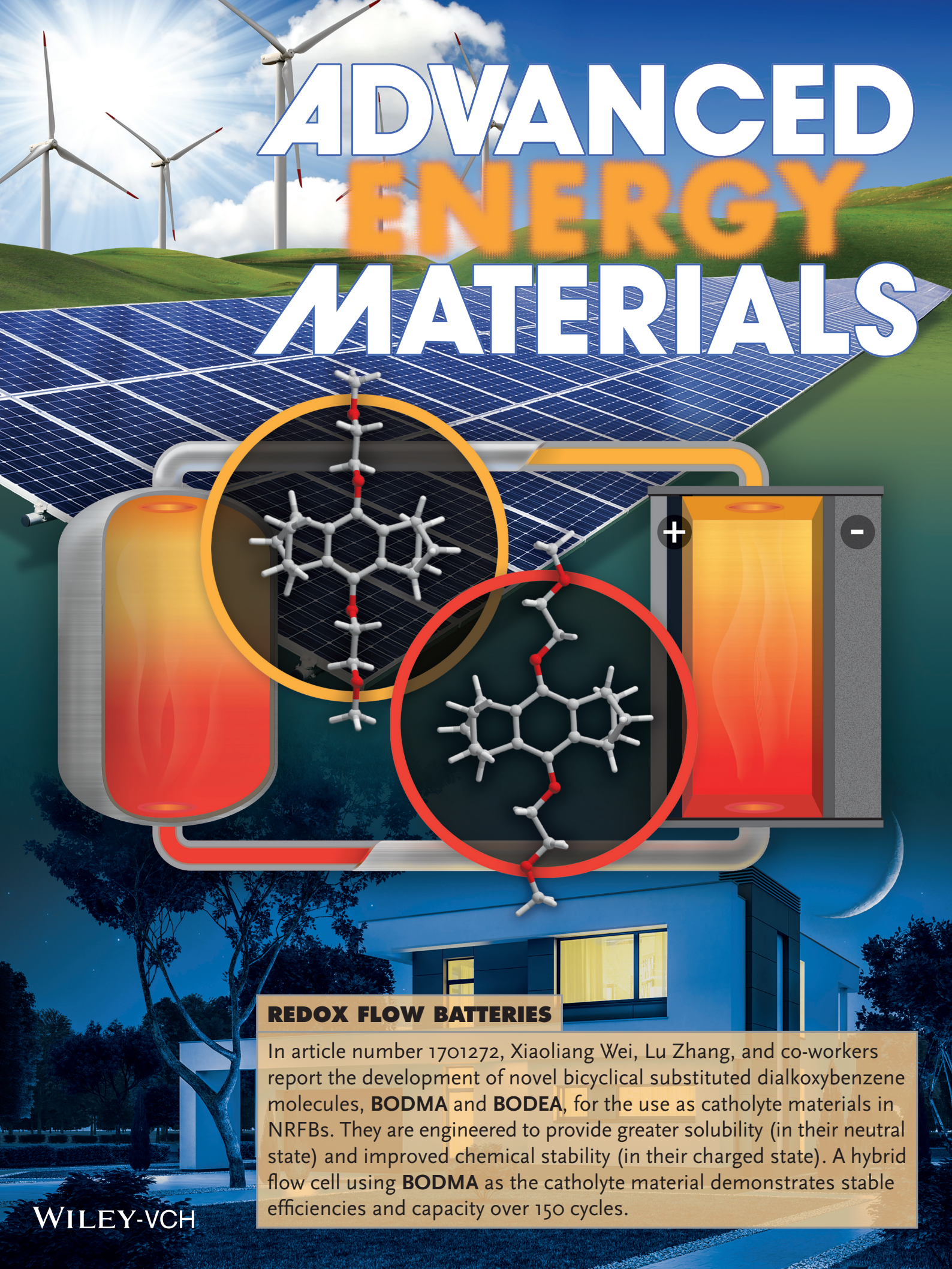


# ADVANCED ENERGY MATERIALS

The background of the entire page is a composite image. At the top, there are several white wind turbines against a blue sky with white clouds. Below them are rolling green hills. In the middle ground, there are rows of blue solar panels. In the foreground, there is a diagram of a redox flow battery. The battery consists of two main tanks connected by a network of pipes. The left tank is filled with a red liquid, and the right tank is filled with an orange liquid. The right tank has a '+' sign on its top left and a '-' sign on its top right. Two circular insets are overlaid on the battery diagram. The top inset, with a yellow border, shows a molecular structure of a bicyclic substituted dialkoxybenzene. The bottom inset, with a red border, shows another molecular structure of a similar bicyclic substituted dialkoxybenzene. The background of the bottom half of the page is a night scene of a modern building with lit windows, a crescent moon, and trees.

## REDOX FLOW BATTERIES

In article number 1701272, Xiaoliang Wei, Lu Zhang, and co-workers report the development of novel bicyclic substituted dialkoxybenzene molecules, **BODMA** and **BODEA**, for the use as catholyte materials in NRFBs. They are engineered to provide greater solubility (in their neutral state) and improved chemical stability (in their charged state). A hybrid flow cell using **BODMA** as the catholyte material demonstrates stable efficiencies and capacity over 150 cycles.