# Nanoscale Advances

An open access journal publishing across the breadth of nanoscience and nanotechnology

**rsc.li/nanoscale-advances**

*The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.*

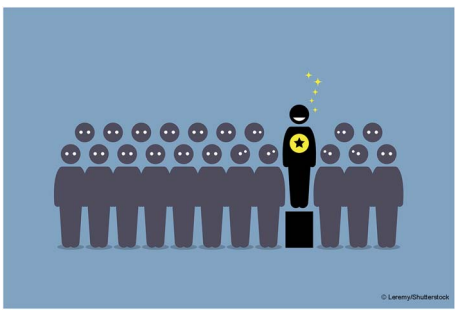
## IN THIS ISSUE

ISSN 2516-0230 CODEN NAADAI 7(16) 4751–5122 (2025)


**Cover**
Image credit to Miguel Monge and José M. López-de-Luzuriaga, *et al.* Image reproduced by permission of Miguel Monge.

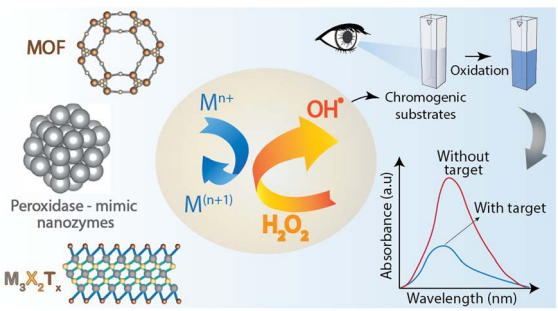
## EDITORIAL

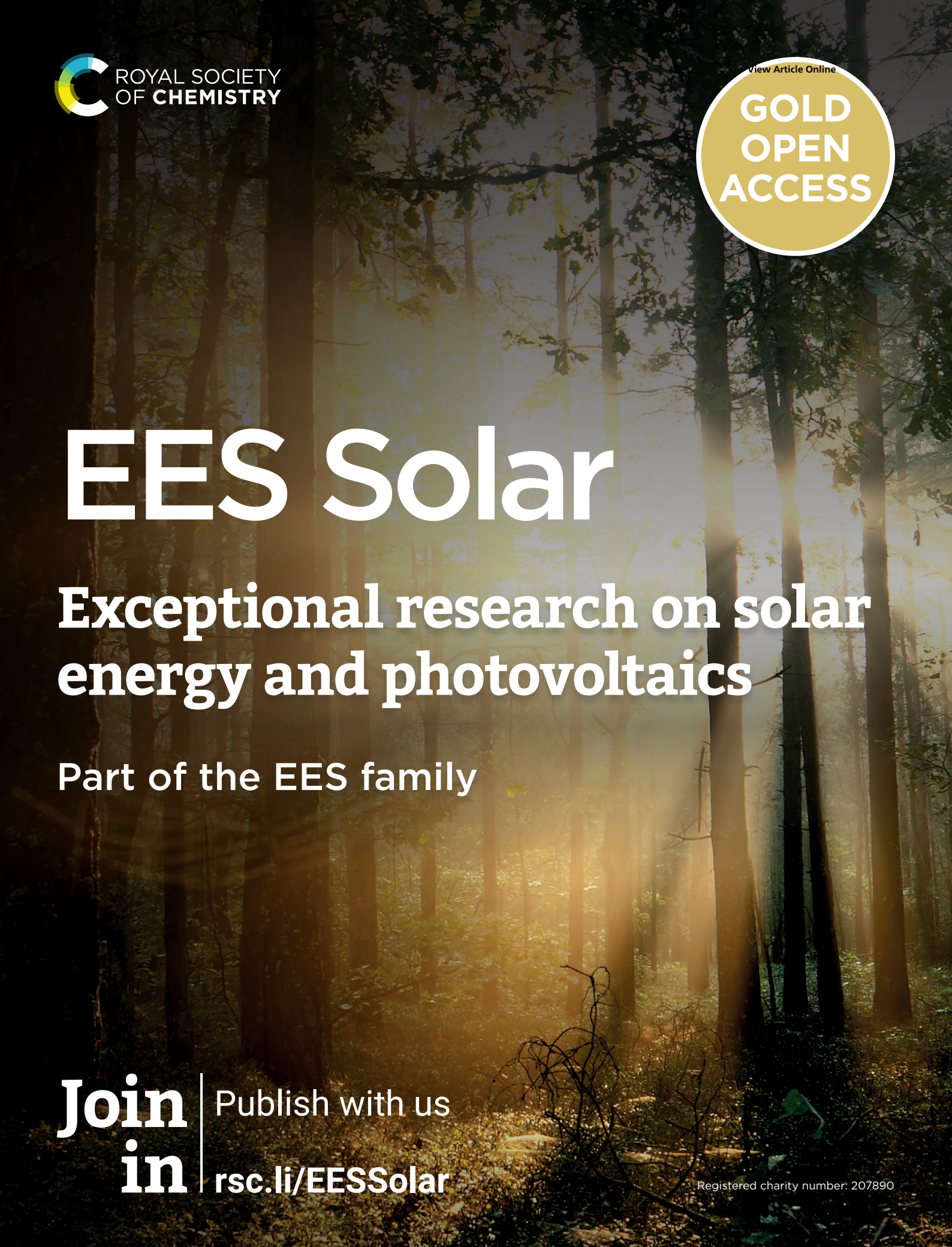





## REVIEWS

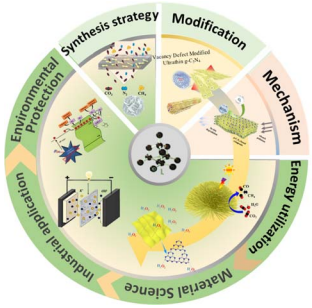





ROYAL SOCIETY OF CHEMISTRY
View Article Online
GOLD OPEN ACCESS
EES Solar
Exceptional research on solar energy and photovoltaics
Part of the EES family
Join in
Publish with us
rsc.li/EESSolar
Registered charity number: 207890

## REVIEWS

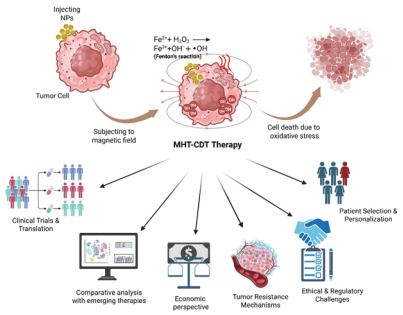






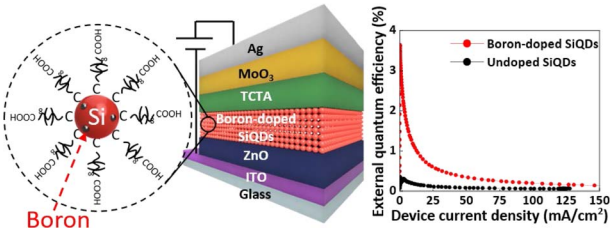







## COMMUNICATIONS





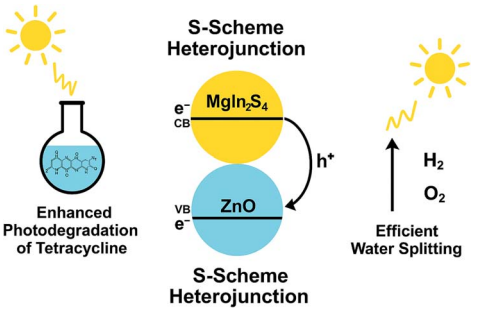
## COMMUNICATIONS



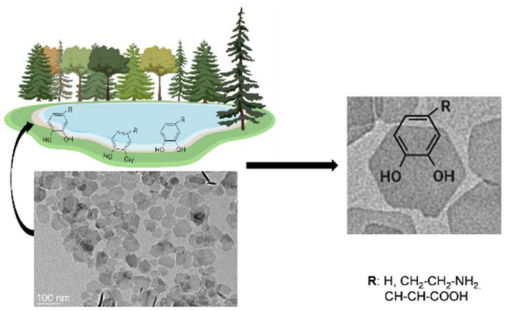
## PAPERS

PAPERS

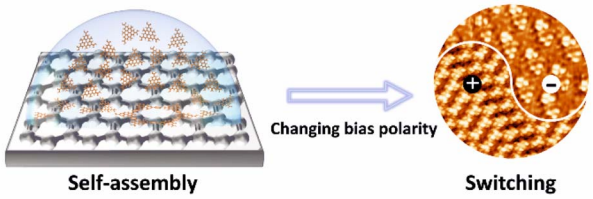




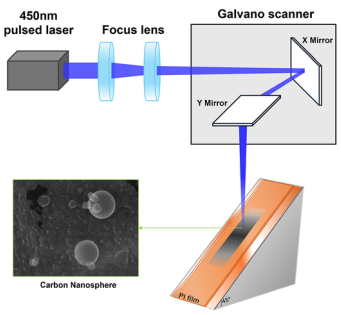




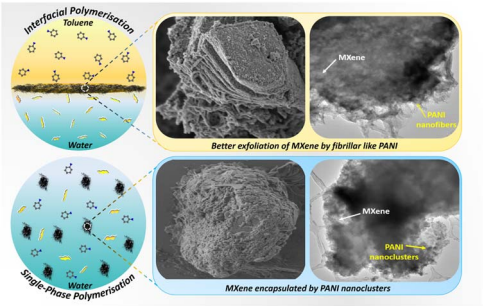


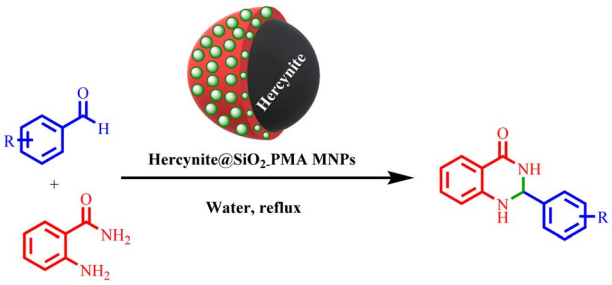
PAPERS

PAPERS

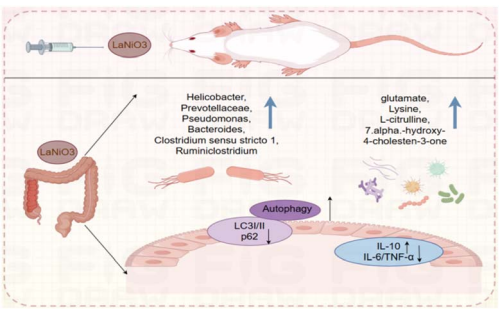




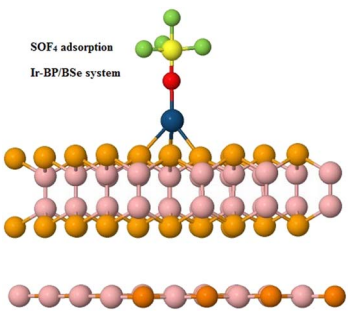




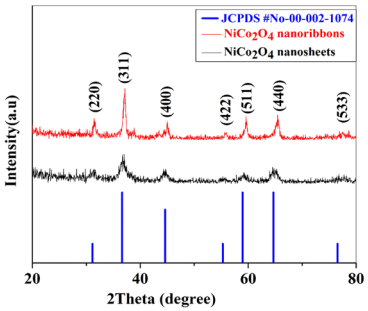


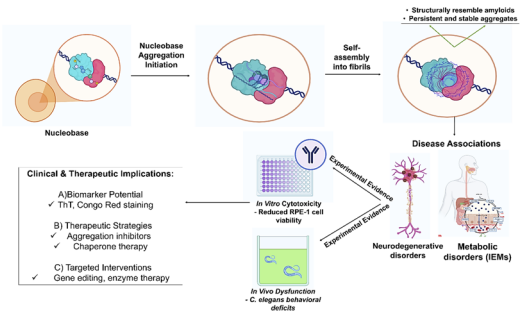
PAPERS

## PAPERS

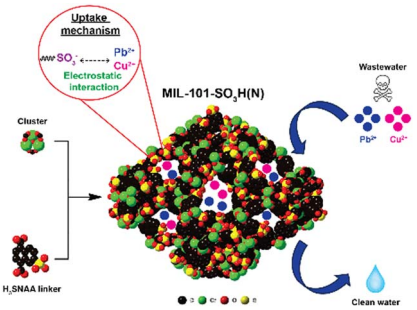









## CORRECTION