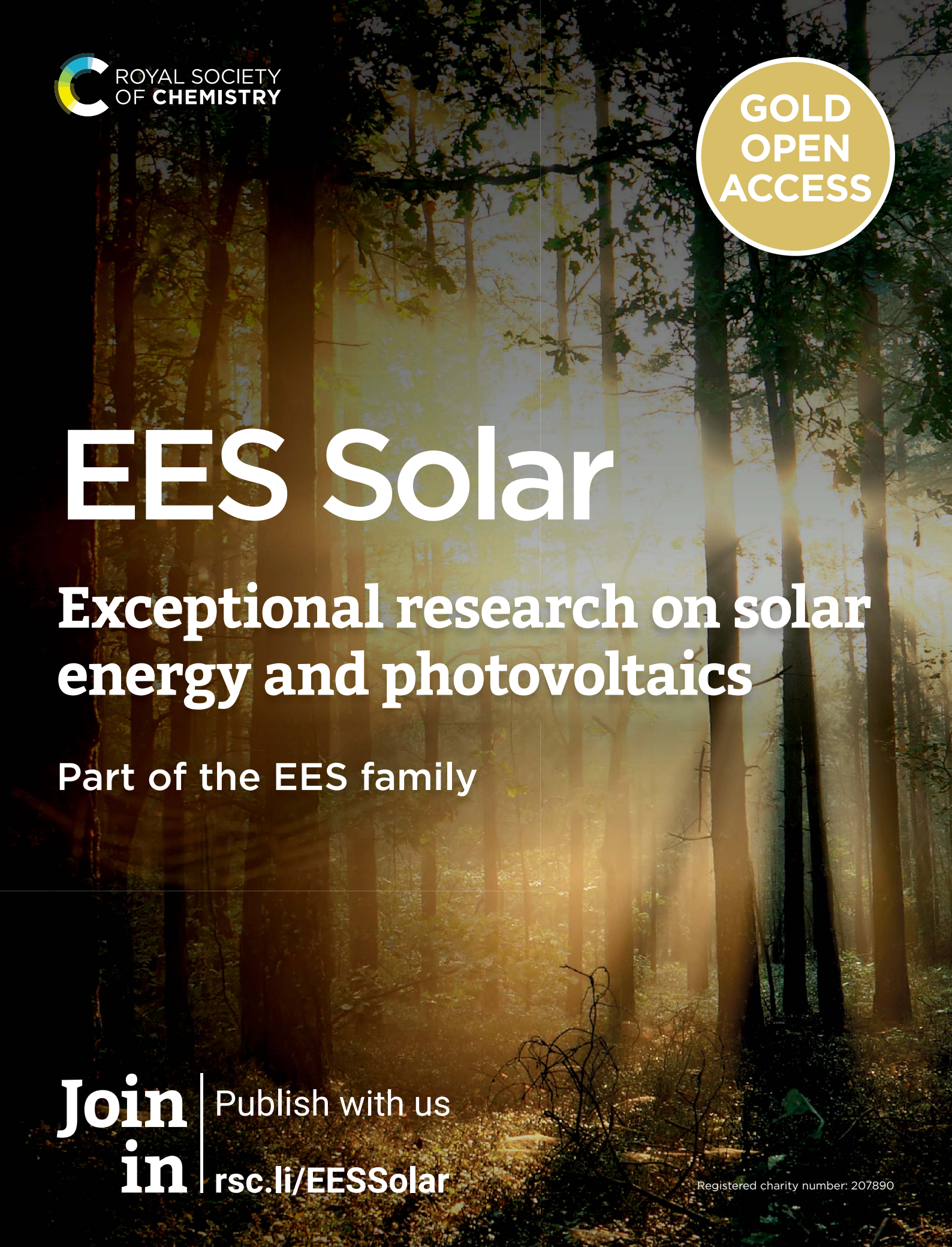
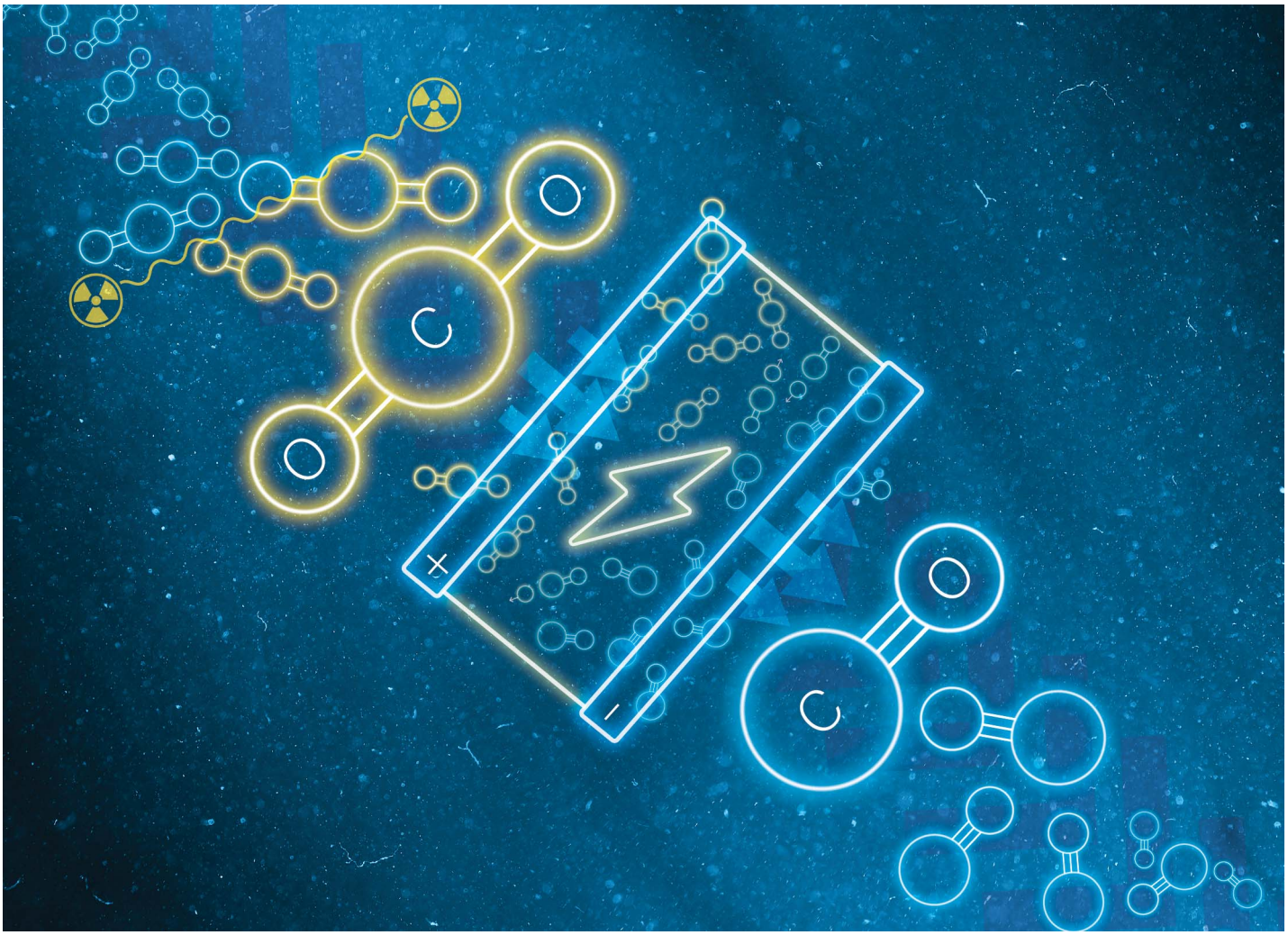

ROYAL SOCIETY OF CHEMISTRY
GOLD OPEN ACCESS
EES Solar
Exceptional research on solar energy and photovoltaics
Part of the EES family
Join in
Publish with us
rsc.li/EESSolar
Registered charity number: 207890

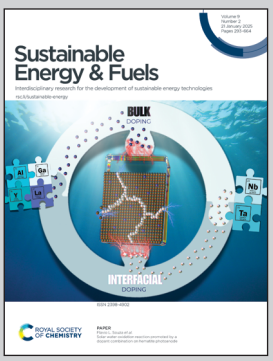


Showcasing research from Dr. Ramirez-Corredores' laboratory, Mineral & Molecular Separations & Analysis Department, Energy and Environment Science and Technology, Idaho National Laboratory, Idaho, United States.

Radiation-assisted electrochemical reduction of CO_2 to CO

Carbon monoxide (CO), a versatile intermediate feedstock can be produced from the electrochemical (EC) reduction of carbon dioxide (CO_2). The current low conversion efficiencies and significant energy requirements of considered EC processes lead to high production costs. This work demonstrated that ionizing radiation (e.g., g-radiation) enhanced the EC CO yield and most likely, improved costs. In fact, radiation decreased the overpotential barrier enhancing the electrochemical reduction of CO_2 to CO by 25%.

As featured in:



See Maria Magdalena Ramirez-Corredores *et al., Sustainable Energy Fuels,* 2025, **9**, 424.

ROYAL SOCIETY OF CHEMISTRY

rsc.li/sustainable-energy

Registered charity number: 207890