Advance your career in science

with professional recognition that showcases your **experience, expertise and dedication**

Stand out from the crowd
Prove your commitment to attaining excellence in your field

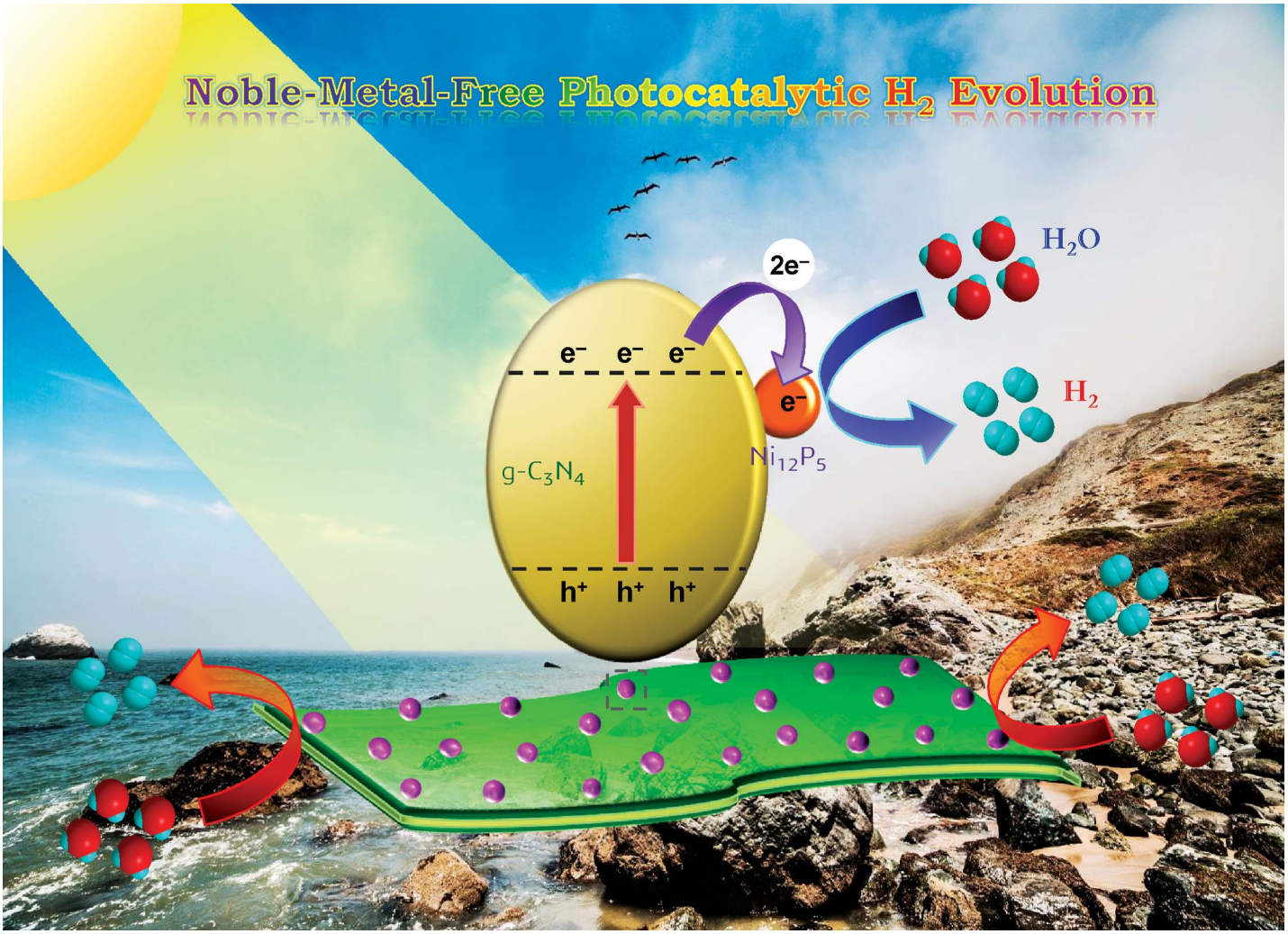
Gain the recognition you deserve
Achieve a professional qualification that inspires confidence and trust

Unlock your career potential
Apply for our professional registers (RSci, RSciTech) or chartered status (CChem, CSci, CEnv)

Apply now
rsc.li/professional-development

ROYAL SOCIETY OF CHEMISTRY

Registered charity number: 207890



A research study focusing on the development of $Ni_{12}P_5$ nanoparticles anchored on porous g-C_3N_4 nanosheets for noble-metal-free photocatalytic H_2 evolution is showcased by Dr Wee-Jun Ong and Dr Ming-Yong Han at the Institute of Materials Research and Engineering (IMRE), Agency for Science, Technology and Research (A*STAR) Singapore, and also Prof. Dong-Liang Peng at Xiamen University China.

$Ni_{12}P_5$ nanoparticles embedded into porous g-C_3N_4 nanosheets as a noble-metal-free hetero-structure photocatalyst for efficient H_2 production under visible light

$Ni_{12}P_5$/g-C_3N_4 heterojunction systems composed of colloidally synthesized $Ni_{12}P_5$ nanoparticles and g-C_3N_4 nanosheets were engineered. The nanocomposites demonstrated remarkable H_2 production and excellent photostability due to the intimate interfacial contact for effective charge separation to suppress the electron-hole recombination.

As featured in:

See Wee-Jun Ong, Dong-Liang Peng, Ming-Yong Han *et al.*, *J. Mater. Chem. A*, 2017, **5**, 16171.

ROYAL SOCIETY OF CHEMISTRY

rsc.li/materials-a

Registered charity number: 207890