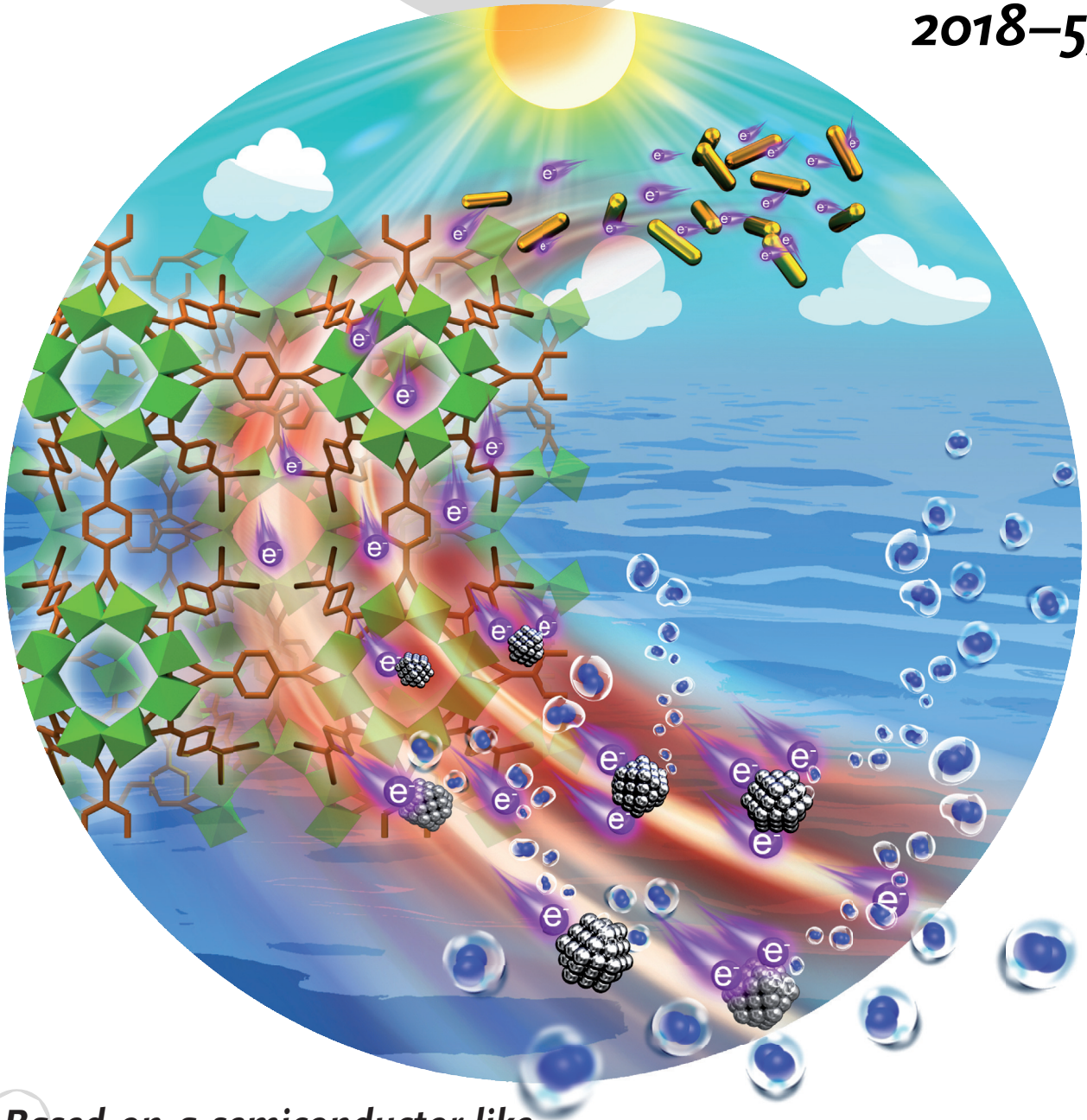
A Journal of the Gesellschaft Deutscher Chemiker

# Angewandte International Edition Chemie

GDCh

www.angewandte.org

2018–57/4



## Based on a semiconductor-like ...

... metal–organic framework (MOF), the Pt@MOF/Au catalyst integrates the surface plasmon resonance excitation of Au nanorods with a Pt-MOF Schottky junction, which extends the light absorption of the MOF from the UV to the visible region and greatly accelerates charge transfer. H.-L. Jiang et al. show in their Communication on page 1103 ff. that the spatial separation of Pt and Au particles by the MOF further steers the formation of charge flow and expedites electron migration, leading to a very high photocatalytic $H_2$ production rate.

WILEY-VCH