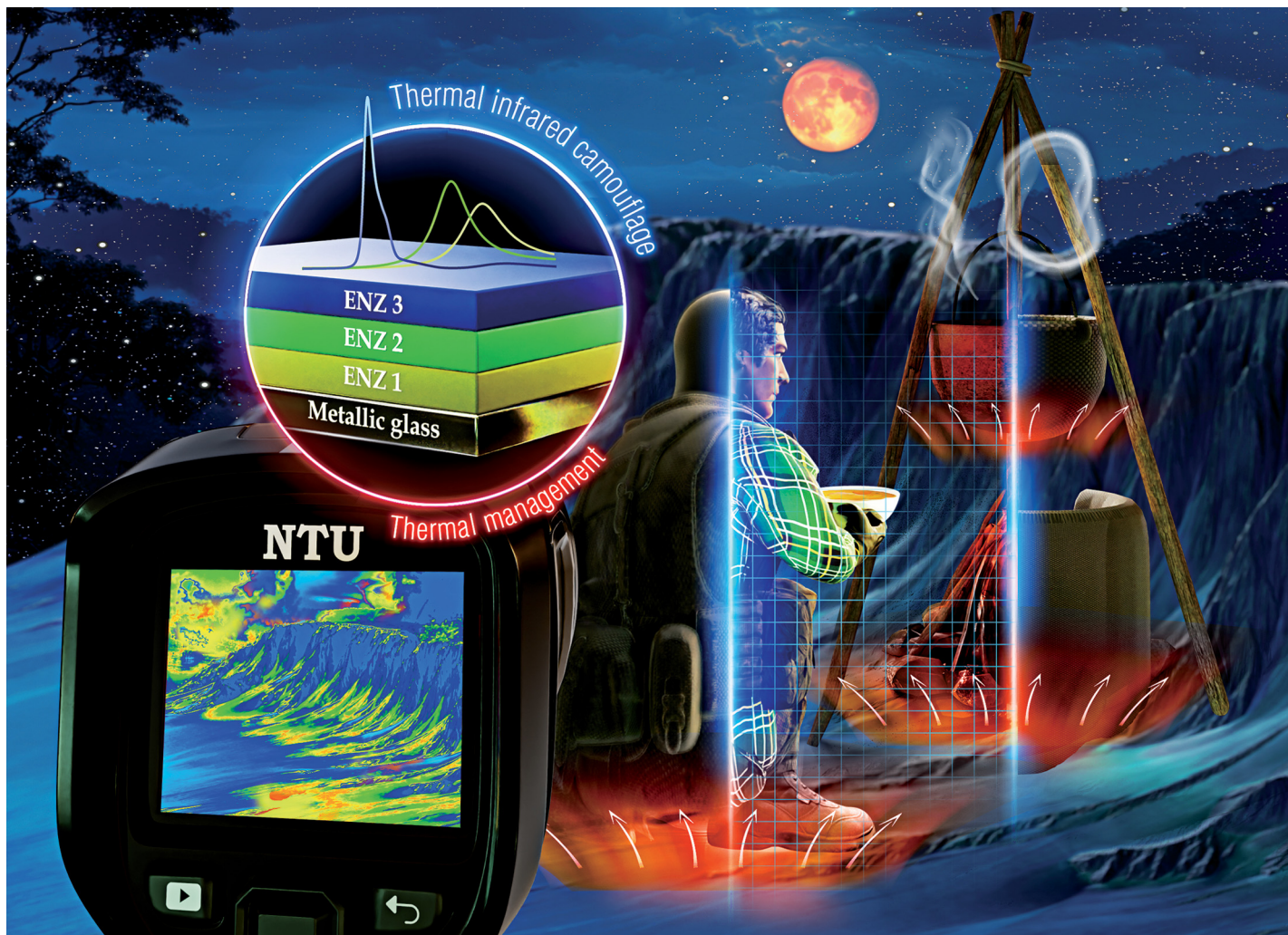


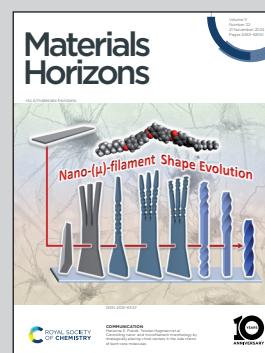


Showcasing research from Professor Hsuen-Li Chen's laboratory, Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan.

Epsilon-near-zero thin films in a dual-functional system for thermal infrared camouflage and thermal management within the atmospheric window

A newly designed structure combining metallic glass with the Berreman mode of epsilon-near-zero (ENZ) thin films achieves a dual-function system for infrared camouflage and thermal management within the atmospheric window. Here, metallic glasses were chosen owing to their tunable optical properties, with their adjustable emissivity offering versatility for different thermal camouflage applications. It enabled thermal management without compromising the thermal camouflage performance.

As featured in:



See Hsuen-Li Chen *et al.*,
Mater. Horiz., 2024, **11**, 5578.