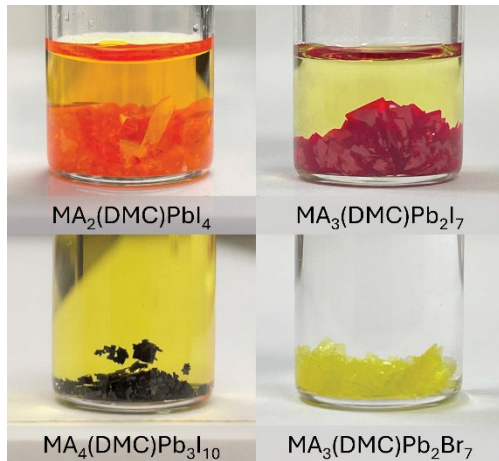


28 November 2024

Designing Colour-changing Semiconductor Materials



Materials known as 2D halide perovskites exhibit unique properties and are excellent semiconductors with potential applications in diverse fields.

NTU scientists have synthesised four new types of 2D halide perovskites.

The researchers found that one of the perovskites could switch between two coloured states, changing from orange to red when heated to 80 degrees Celsius and reverting to its original colour when cooled to room temperature.

The colour-changing reaction of the perovskite could be repeated for 25 cycles, opening the door to applications such as smart coatings and heat-sensitive inks that change colour at different temperatures.

<https://www.miragenews.com/designing-colour-changing-semiconductor-1367103/>