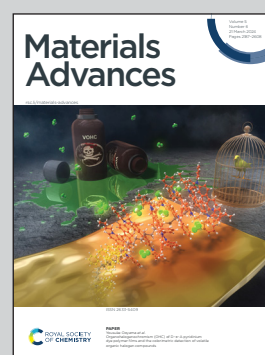


Showcasing research from Dr Yutaka Okazaki's research group, Graduate School of Energy Science, Kyoto University, Kyoto, Japan.

Generation of time-multiplexed chiroptical information from multilayer-type luminescence-based circular polarization conversion films

Circularly polarized (CP) light generated from photoluminescence (PL) has great potential for the transmission of diverse forms of optical information including light intensity (brightness), spectral profile (color), and polarization (left-handed (LH)/right-handed (RH)), as well as temporal information corresponding to the PL lifetime of the CP light source. Here, we demonstrated a novel approach to time-multiplexing chiroptical information using multilayered luminescence-based CP converters comprising two linearly polarized luminescence (LPL) films with different PL lifetimes and a quarter-wave retardation film.

As featured in:



See Yutaka Okazaki, Takashi Sagawa *et al.*, *Mater. Adv.*, 2024, 5, 2253.