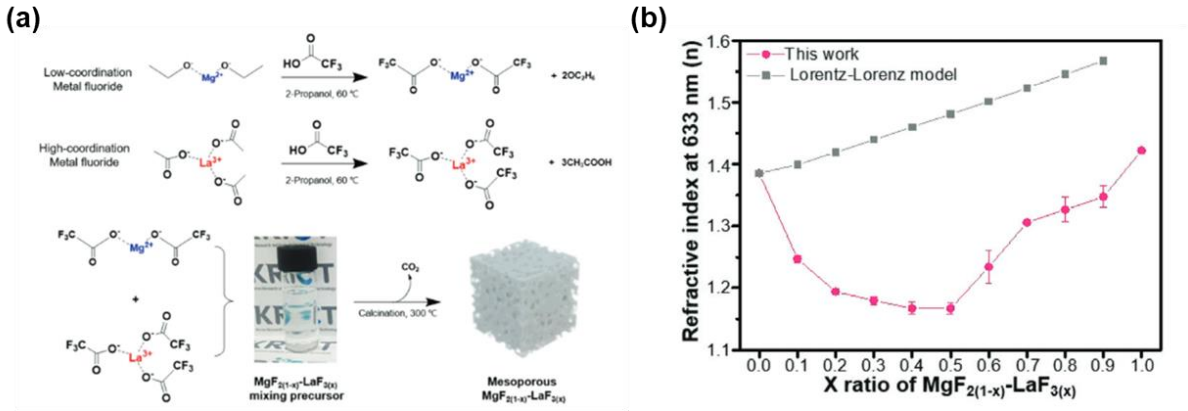
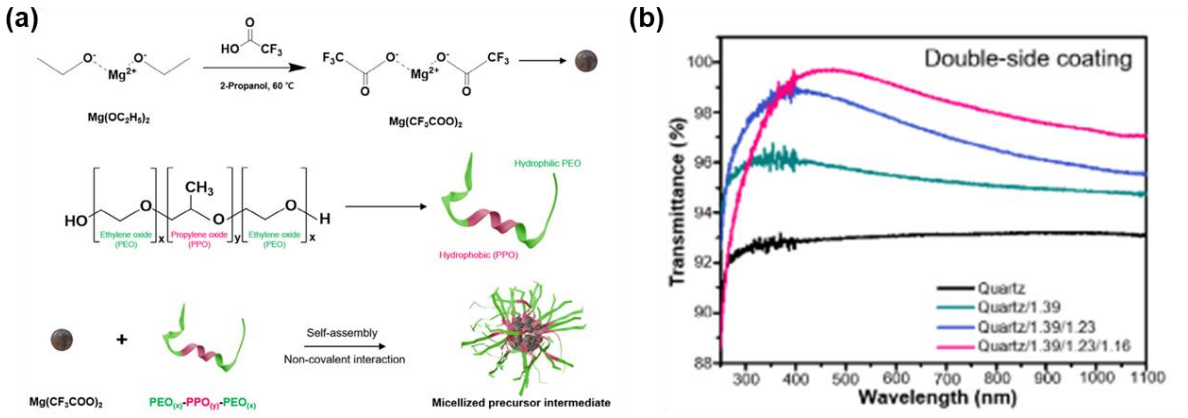
Mesoporous Metal Fluoride Nanocomposite Films with Tunable Optical Properties Derived from Precursor Instability



(a) Schematic illustration of the fabrication process; (b) comparison between the calculated and experimentally measured refractive indices of mesoporous $MgF_2(1-x)$–$LaF_3(x)$ hybrid thin films.

Precise Control of Intergranular Voids in MgF_2 via Solidification of Micelle-Carried Precursors for Tunable Refractive Index



(a) Schematic representation of micellized $Mg(CF_3COO)_2$ encapsulated by poloxamers; (b) optical transmittance spectrum of the GRIN antireflection coating (ARC).