**Achievement:**

- **Light-mediated** formation of **nanoscale lamellar patterns** during the growth of selenium-tellurium (Se-Te) alloys.
- The **illumination conditions** (intensity, wavelength, polarization and incident angle) control the resulting pattern.
- The Se-Te nanostructures are **dynamically responsive** to changing illumination conditions during growth.

**Significance:**

Light-directed growth of energy conversion materials enables the development of **complex 3D architectures** with **tailored optical responses** through dynamic feedback between the illumination conditions and growing morphology.

B. Sadtler et al., in preparation

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