

ADVANCED FUNCTIONAL MATERIALS

QUARTZ FILMS

The combination of sol-gel chemistry and epitaxial growth provides direct access to the integration of piezoelectric macroporous quartz, epitaxially grown on (100)-silicon substrates. A. Carretero-Genevri and co-workers demonstrate on page 5494 that the interplay between temperature, humidity, catalyst content, and epitaxial growth plays a key role for the bottom-up fabrication of macroporous quartz on silicon substrates.