## ADVANCED FUNCTIONAL MATERIALS

## **CARBON NANOTUBES**

The effects of nanoscale conformal coatings of amorphous silicon carbide on the mechanical properties of carbon nanotube pillars are investigated. Several interesting mechanical failure modes such as bamboo and brittle-like composite rupture are observed as coating thickness increases. On page 5737, G. Q. Zhang and co-workers report on their remarkable increase in strength, making the fast growing coated CNT arrays useful as structural material for high-aspect-ratio 3D microarchitectures.

