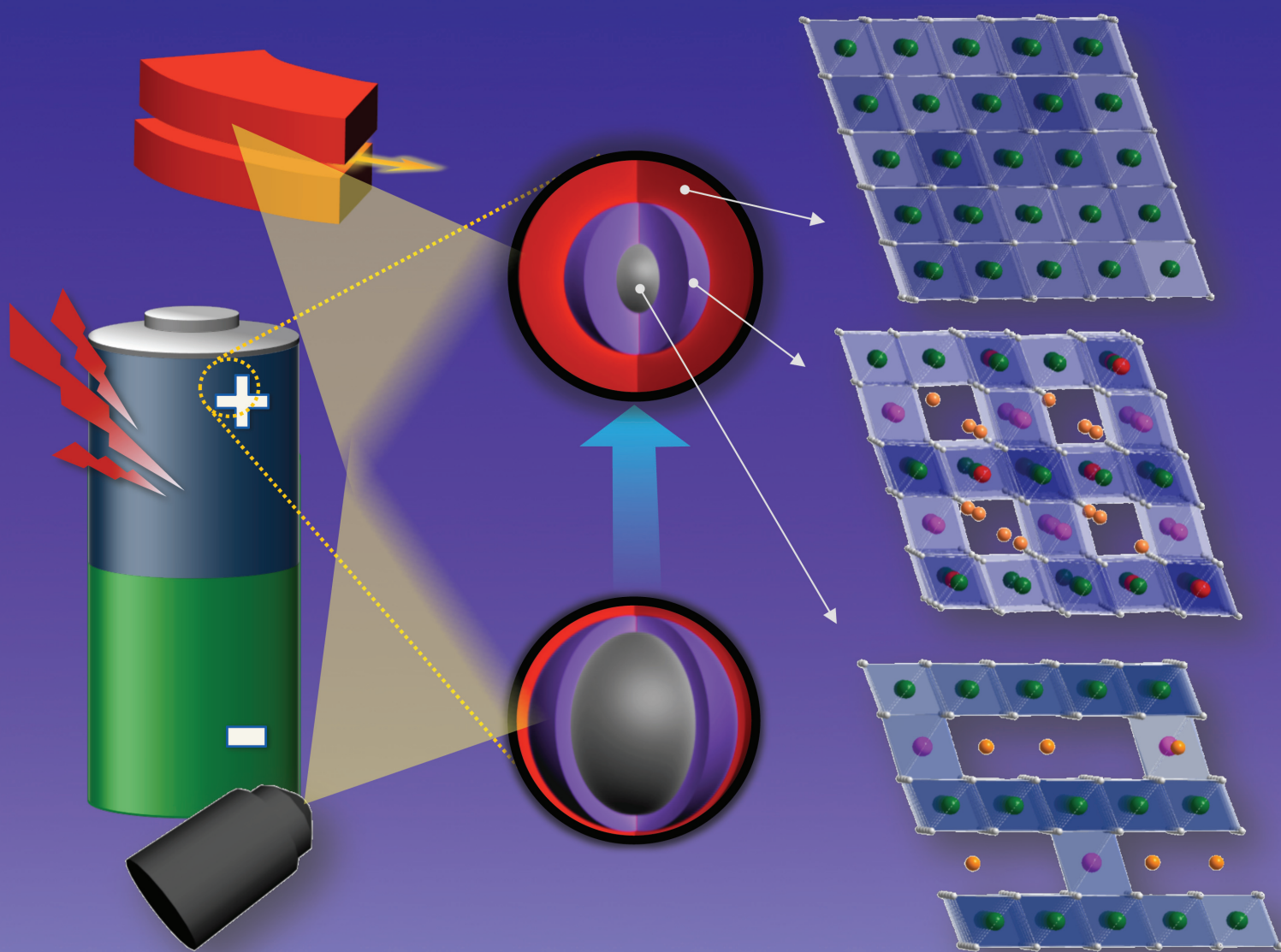


# ADVANCED FUNCTIONAL MATERIALS



## CATHODE MATERIALS

The structural origin of thermal instability of cathode materials, a critical safety issue for lithium-ion batteries, is studied systematically using a combination of various in situ synchrotron X-ray techniques and transmission electron microscopy. As Lijun Wu, Xiao-Qing Yang, and co-workers report on page 1047, an in-depth understanding of the thermal-decomposition behavior of overcharged cathode materials is obtained through this investigation.