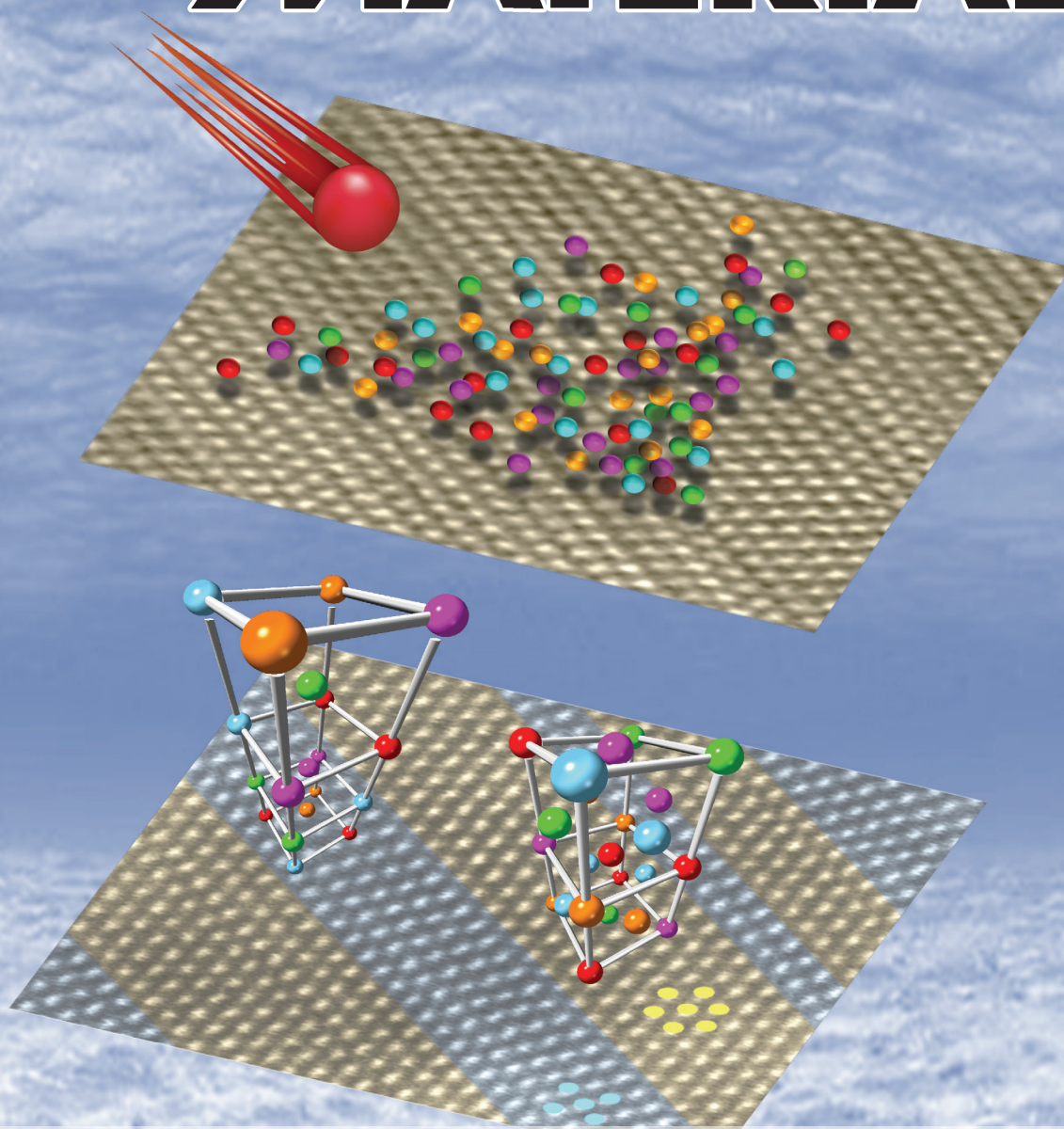


# ADVANCED MATERIALS



In article number 2002652, Lumin Wang and co-workers report that a nanoscale hierarchical dual-phase structure forms in a nanocrystalline NiFeCoCrCu high-entropy alloy film via an ion-irradiation-induced face-centered-cubic (fcc) to body-centered-cubic (bcc) phase transformation. The microstructure of the material is represented in the top and bottom TEM images: a five-component high-entropy alloy, before (top) and after (bottom) ion-beam irradiation. Atoms are displaced in the induced “displacement cascade” (as shown in the top image). The two crystal models (top and bottom) show the atomic arrangement (bcc or fcc) in the resultant dual-phase structure.