

ADVANCED MATERIALS

The image features several 3D ball-and-stick molecular models. At the top, there are two cylindrical structures composed of red and yellow spheres, representing layered materials. Below them is a large, flat, grid-like structure made of yellow and blue spheres, representing a monolayered material. The background is a blurred laboratory setting with a microscope in the lower-left corner.

SELF-HEALING DEVICES

An innovative concept of a self-healed electrode-channel system employing ultrathin metallic copper monosulfide (CuS) and monolayered molybdenum disulfide (MoS_2) is demonstrated by John Hong, SeungNam Cha, and co-workers in article number 2102091 for the design of defect-curable transistors and phototransistors. Excess sulfur adatoms from the CuS electrode spontaneously heal the defect sites in the MoS_2 channel for record-high transistor and phototransistor performance.