

ADVANCED FUNCTIONAL MATERIALS

NANOCOMPOSITES

J. Hu and co-workers successfully develop mesoporous silica-coated copper with a core-shell nanostructure ($\text{Cu}_9\text{S}_5@\text{mSiO}_2$) as a versatile multifunctional platform. On page 4281, the $\text{Cu}_9\text{S}_5@\text{mSiO}_2$ shows low cytotoxicity and excellent blood compatibility, and is effective for both photothermal therapy and infrared thermal imaging. Moreover, it can deliver Doxorubicin into cancer cells for chemotherapy, which enhances the effect of thermotherapy. These results will encourage development of such a nanoplatform, synergistically combining thermo- and chemotherapy for real potential in the clinic.

