

ADVANCED FUNCTIONAL MATERIALS



BRAIN TUMORS

On page 6613, W. Bu, J. Shi, and co-workers present the first example of T₂-weighted MR imaging of the sensitizer (Yb³⁺) and activator (Ho³⁺) in UCNPs, which can also be simultaneously used for UCL and CT imaging, thus enabling the high performance multimodal MRI/UCL/CT imaging in single UCNPs. Impressively, the remarkable T₂-MRI capability of the Ho³⁺-doped UCNPs favors the accurate early diagnosis of brain tumor.