

ADVANCED FUNCTIONAL MATERIALS

SENSORS

M. Terrones and co-workers design a photodetector consisting of a few-layered WS₂ film on quartz with Au/Ti contacts. On page 5511, different laser wavelengths are applied perpendicularly to the film. The few-layered films of WS₂ are synthesized by chemical vapor deposition and the photodevices exhibit very fast responses (on the order of 5 ms). The excellent response of few-layered WS₂ to detect different photon wavelengths over a wide range of intensities makes it a strong candidate for constructing novel optoelectronic devices.

