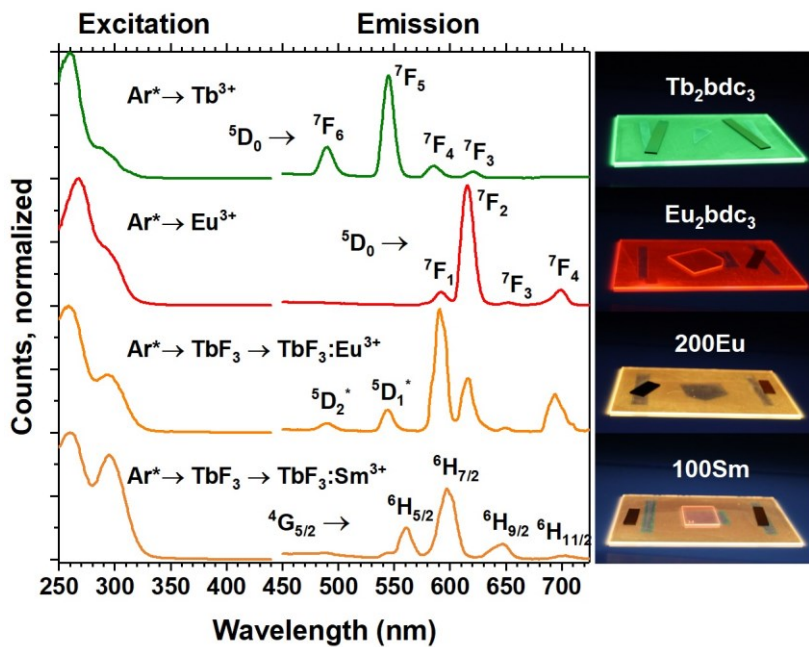


Illustration of the sample design and ALD growth. The sample design consists of an organic linker layer and multiple inorganic layers of two different lanthanide fluorides.



Photoluminescence data and photographs, showing that the emission spectra can be designed independently from the excitation (absorption) spectrum. All 4 films are excited by UV absorption on terephthalic acid (benzene dicarboxylic acid, bdc), while the emission is selected by selecting different layers in the inorganic (green and orange) layers.