Supplementary Information

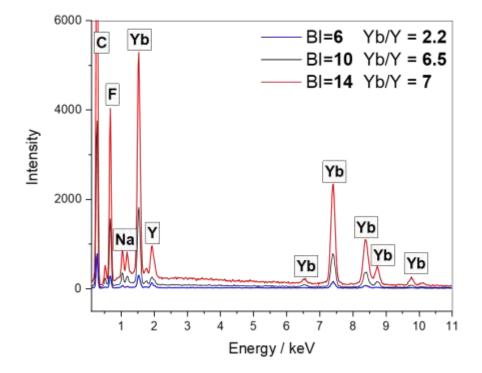


Figure S1. EDX analysis of the NaYb_{0.99}F₄:Tm_{0.01}@NaYF₄ sample with different beam intensities (BI). The Yb³⁺/Y³⁺ ions ratio is significantly increasing with the penetration depth, what indicates higher content of Y³⁺ ions at the surface of studied material.