**Supplementary Materials**

A Novel Red-Emitting NaYS2 Phosphor under 1550 nm Excitation

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**Figure S1.** Fluoresce decay dynamics of 4S3/2 (555 nm), 4F9/2 (655 nm), 4I9/2 (800 nm) energy levels of Er3+ ions in NaYS2:6%Er3+.