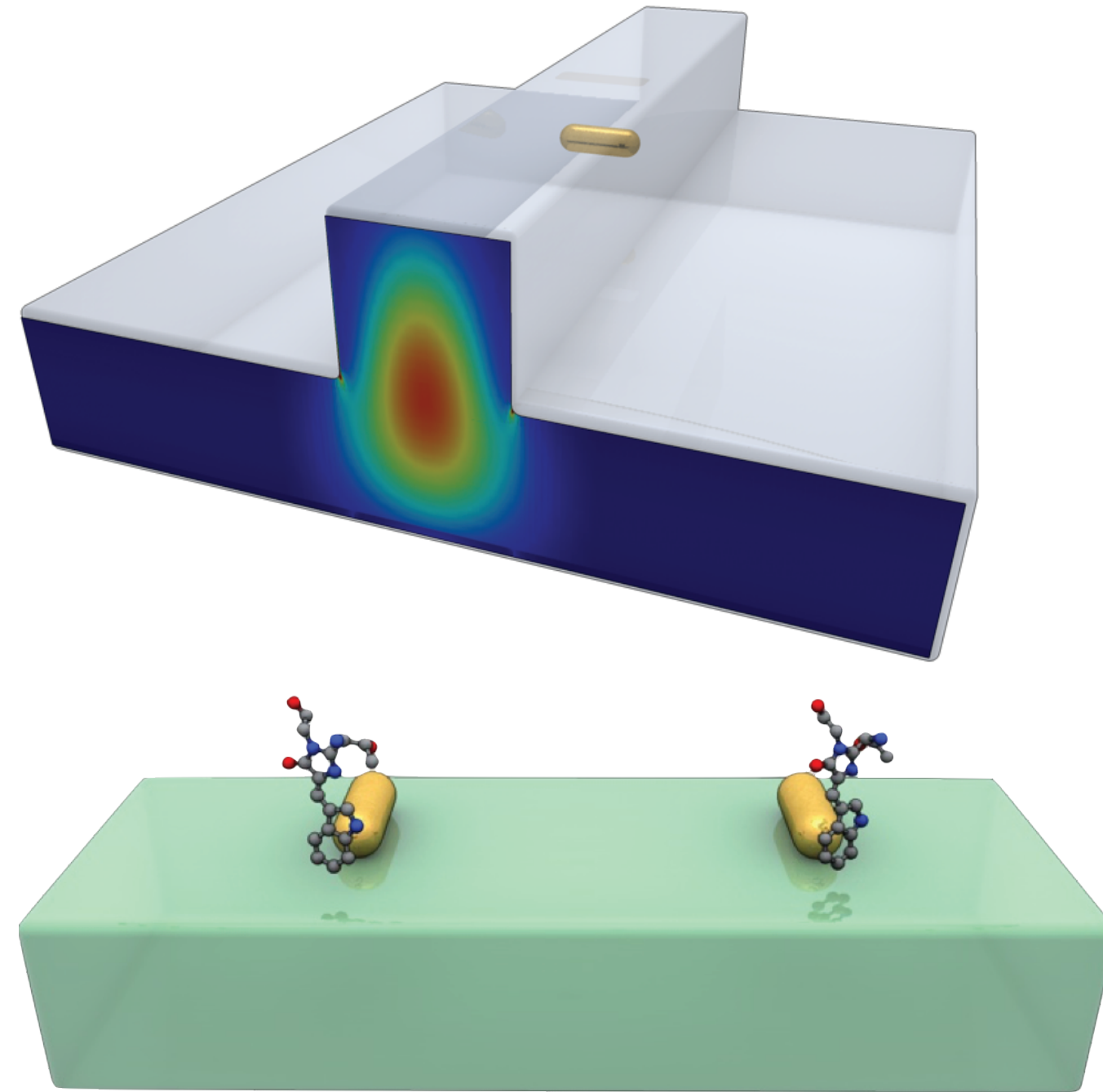
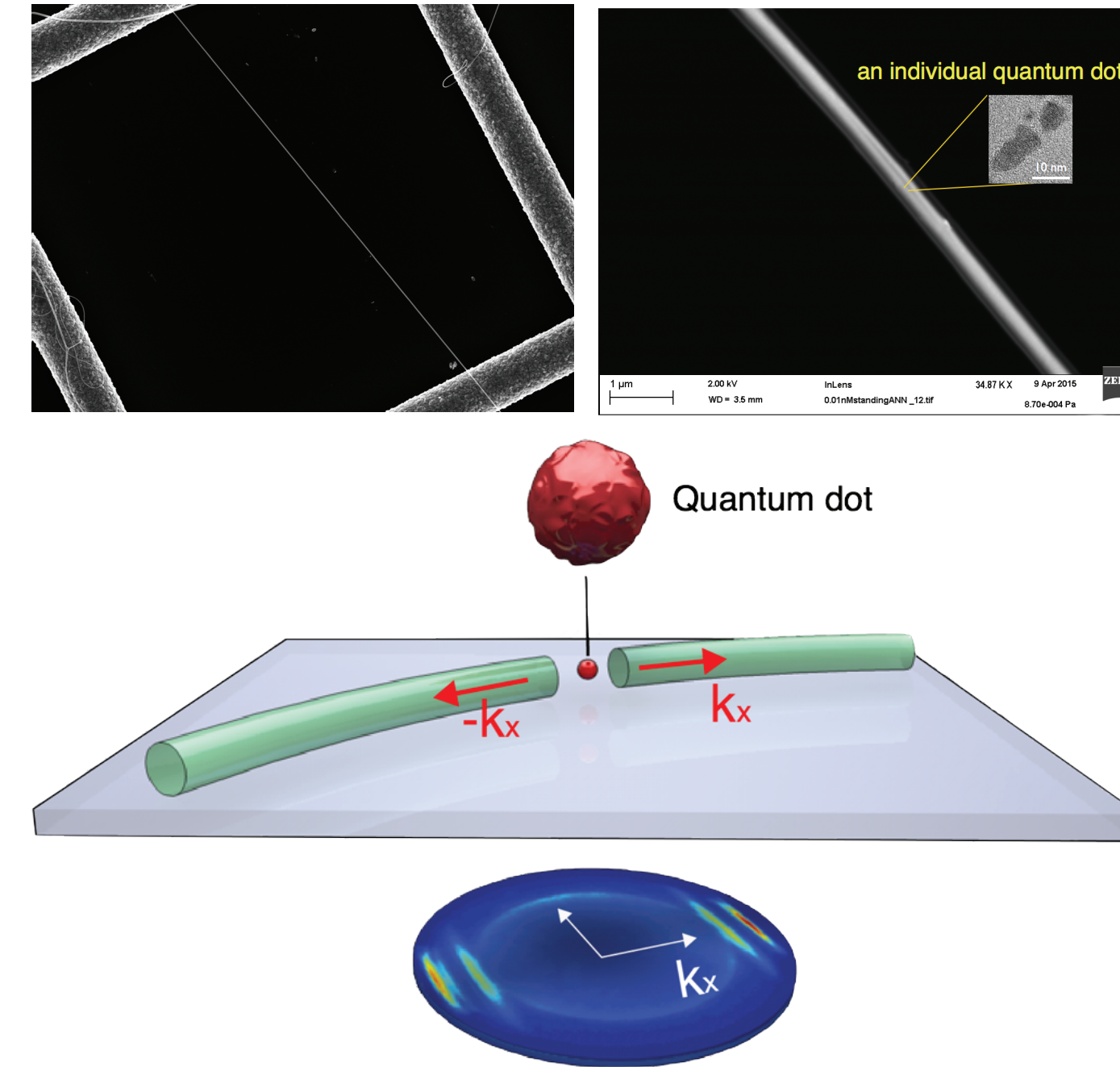


a

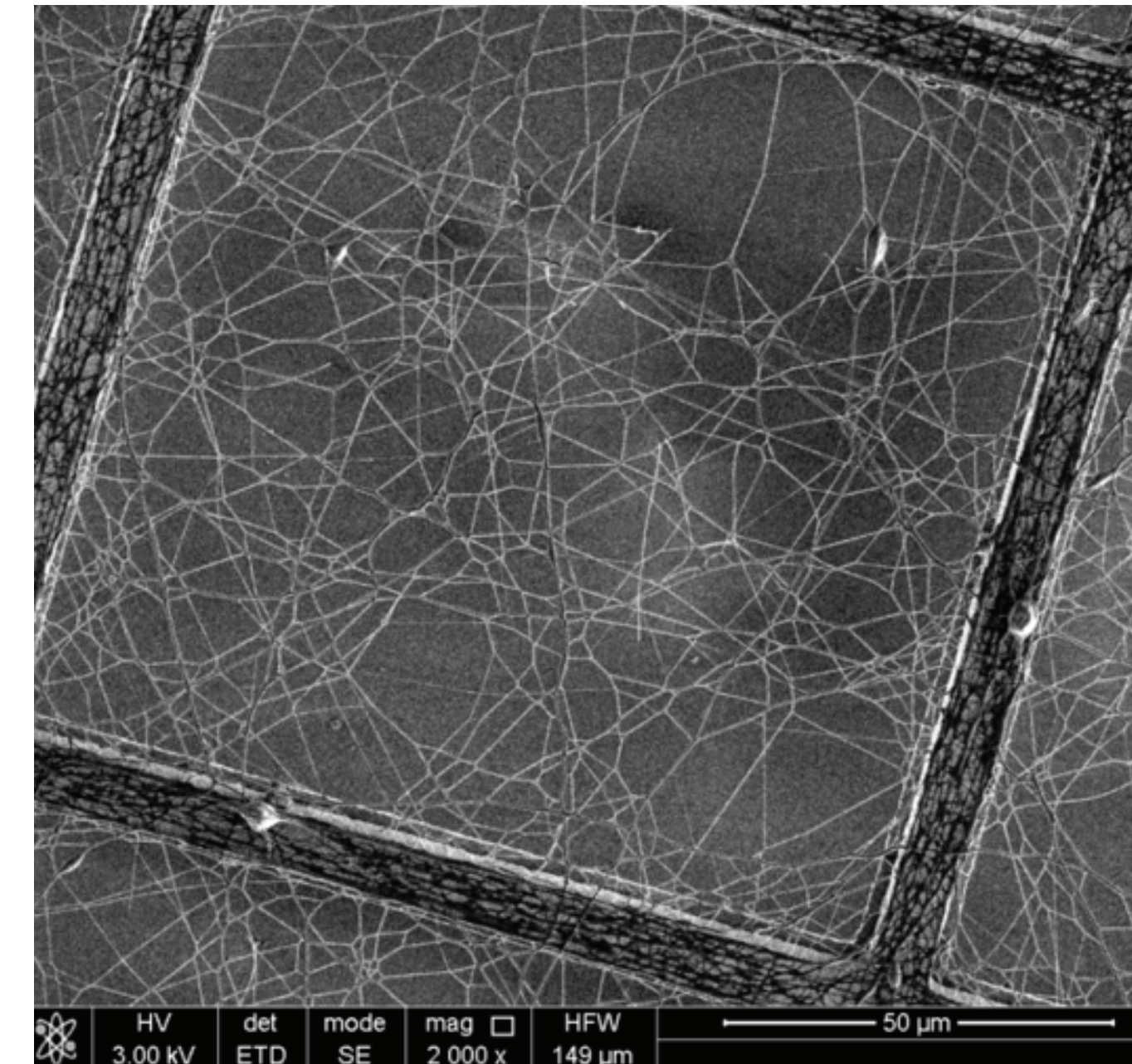
Hybrid antenna-waveguide

**b**

Single-emitter in a nanofibre

**c**

Photonic networks

**d**

Random lasing

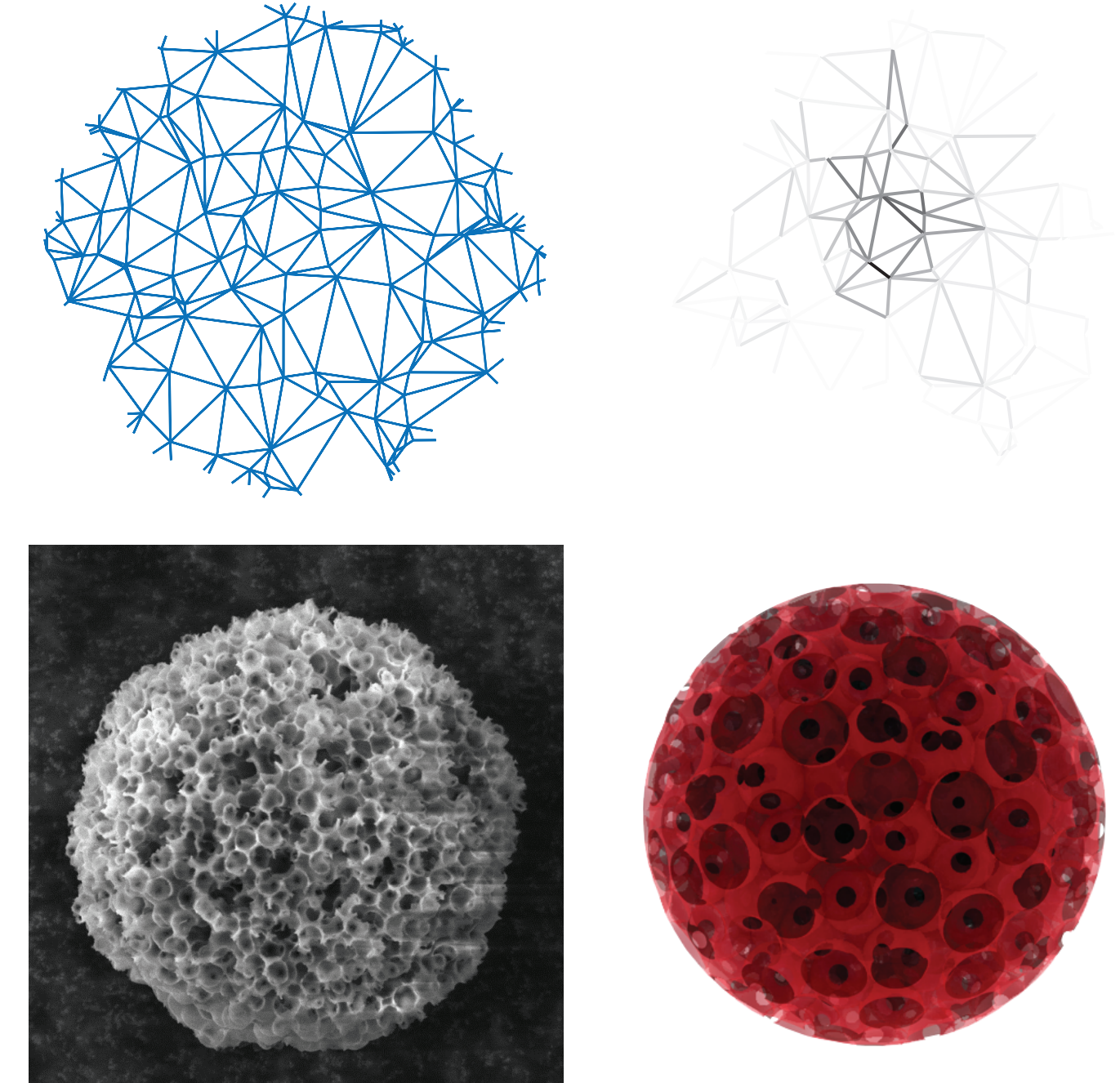


Figure 1. Panel a, a plasmonic antenna in a silicon waveguide, and two antennas to enable long-range communication between two molecules. Panel b, A single quantum dot embedded in a nanofibre and its fluorescence characterisation. Panel c, a photonic network made of linked nanofibres. Panel d, random lasing from photonic networks (top), and from 3d porous microsphere made of silk (bottom).