Absorption, luminescence and scattering of single nano-objects

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The optical properties of nano-objects depend on their structure, composition, and local environment. We combine photothermal (absorption), luminescence, and scattering signals on a single-particle basis to gain fundamental insight into the radiative and nonradiative properties of individual nano-objects including single molecules, organic dye nanoparticles, and gold nanoparticles.

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