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Photoswitchable ...

... fluorescent nanoparticles, with enhanced properties arising from efficient intermolecular energy transfer are described by R. Métivier, T. Fukaminato, et al. in their Communication on page 3662 ff. The half-sphere shows a cut-NP, made of fluorescent photochromic molecules (gray and red). Illuminated this NP with a few photons, induces a photochromic reaction (NP in the foreground) converting a few photochromic molecules into the quenching state (blue), generating large dark quenching Förster spheres (dark areas) by intermolecular energy transfer (white arrows).

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