



**Extended Data Figure 6 | Contour plots of normalized electric-field magnitude across a cube-shaped nanocrystal. a–d,** Contour plots of  $E_z^z/E_\infty^z$  for four different ratios (4, 6, 8 and 10, respectively) of the dielectric constant inside the nanocrystal ( $\varepsilon_{\text{in}}$ ) and of the surrounding medium ( $\varepsilon_{\text{out}}$ ) (see Supplementary Information section 3.B). The plots depict the  $x$ – $z$  mid-plane of the cube and are valid for the symmetry-

equivalent  $y$ – $z$  mid-plane. **e,** Contour plot of  $E_x^z/E_\infty^z$  on the  $x$ – $z$  mid-plane of the cube for  $\varepsilon_{\text{in}}/\varepsilon_{\text{out}} = 9$ . The  $E_y^z/E_\infty^z$  distribution on the  $y$ – $z$  mid-plane is identical. In all panels, the  $z$  direction is vertical and the perturbations near the corners of the plots are artefacts of the interpolation resolution used by the software that we used to construct them.