

Abstract Submitted
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Cooperative mirror of artificial atom dipoles KOMAL SAH, SUSANNE YELIN, Univ of Connecticut - Storrs, EPHRAIM SHAHMOON, Weizmann Institute of Science — Recently, it was shown that 2D dipolar arrays could be employed as a near perfect frequency dependent mirror that could shape the emission pattern from an individual quantum emitter into a well-defined, collimated beam. In our calculations we investigate the implementation of such a system using nanorods or similar shapes with the goal to reach into short-wavelength regimes.

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