

# Lasing optical cavities based on macroscopic scattering elements

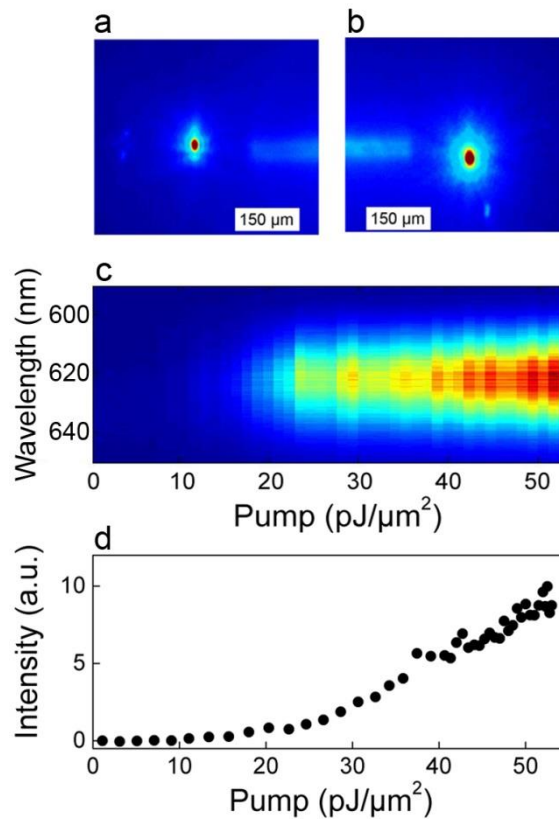
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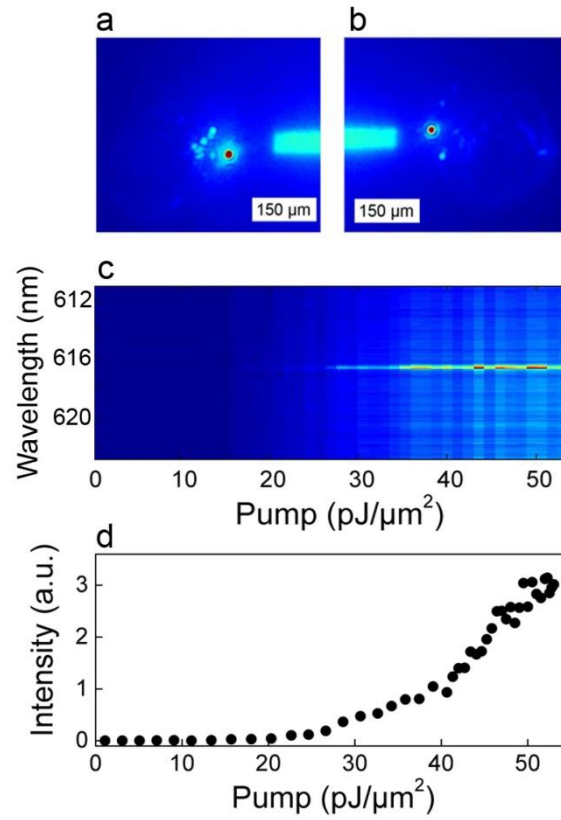
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## Supplementary Information

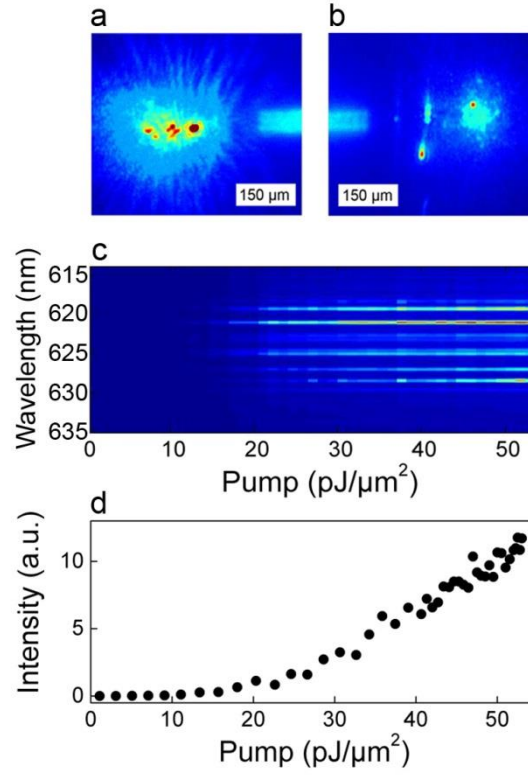
### Device Characterization



Supplementary Fig. 1. Experimental results from device #1. a, image detected from left grain for  $E_P = 53 \text{ pJ}/\mu\text{m}^2$ . b, image detected from right grain for  $E_P = 53 \text{ pJ}/\mu\text{m}^2$ . c, Measured spectra as a function of the pumping energy, d, Total emission intensity as a function of pump energy.



Supplementary Fig. 2. Experimental results from device #2. a, image detected from left grain for EP = 53 pJ/μm<sup>2</sup>. b, image detected from right grain for EP = 53 pJ/μm<sup>2</sup>. c, Measured spectra as a function of the pumping energy, d, Total emission intensity as a function of pump energy.



Supplementary Fig. 3. Experimental results from device #3. a, image detected from left grain for  $E_P = 53 \text{ pJ}/\mu\text{m}^2$ . b, image detected from right grain for  $E_P = 53 \text{ pJ}/\mu\text{m}^2$ . c, Measured spectra as a function of the pumping energy, d, Total emission intensity as a function of pump energy.