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Lasing Reporting Summary

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L.	Threshold		
	Plots of device output power versus pump power over a wide range of values indicating a clear threshold	Yes No	Our work studies the spatial structure properties of optical beams, Therefore, it is not relevant to the threshold of the laseing.
) 	Linewidth narrowing		
	Plots of spectral power density for the emission at pump powers below, around, and above the lasing threshold, indicating a clear linewidth narrowing at threshold	Yes No	Our work studies the spatial structure properties of optical beams, Therefore, it is not relevant to the spectral measurements of the laser.
	Resolution of the spectrometer used to make spectral measurements	Yes No	Our work studies the spatial structure properties of optical beams, Therefore, it is not relevant to the spectral measurements of the laser.
8.	Coherent emission		
	Measurements of the coherence and/or polarization of the emission	Yes No	Our work studies the spatial structure properties of optical beams, Therefore, it is not relevant to the coherence or polarization of the laser.
ŀ.	Beam spatial profile		
	Image and/or measurement of the spatial shape and profile of the emission, showing a well-defined beam above threshold	X Yes	In Figure 5
).	Operating conditions		
	Description of the laser and pumping conditions Continuous-wave, pulsed, temperature of operation	Yes No	In the "Methods" section
	Threshold values provided as density values (e.g. W $\rm cm^{-2}$ or J $\rm cm^{-2}$) taking into account the area of the device	Yes No	Our work studies the spatial structure properties of optical beams, Therefore, it is not relevant to the power density of the beam.
ò.	Alternative explanations		
	Reasoning as to why alternative explanations have been ruled out as responsible for the emission characteristics e.g. amplified spontaneous, directional scattering; modification of fluorescence spectrum by the cavity	Yes No	This study has no alternative explanations about amplified spontaneous, directional scattering; modification of fluorescence spectrum by the cavity.
	Theoretical analysis		
	Theoretical analysis that ensures that the experimental values measured are realistic and reasonable e.g. laser threshold, linewidth, cavity gain-loss, efficiency	Yes No	This study has no theoretical analysis related to laser threshold, linewidth, cavity gainloss, efficiency.
8.	Statistics		
	Number of devices fabricated and tested	Yes No	No device was fabricated and tested in the study.
	Statistical analysis of the device performance and lifetime (time to failure)	Yes	No device was fabricated and tested in the study.