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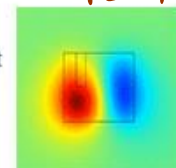


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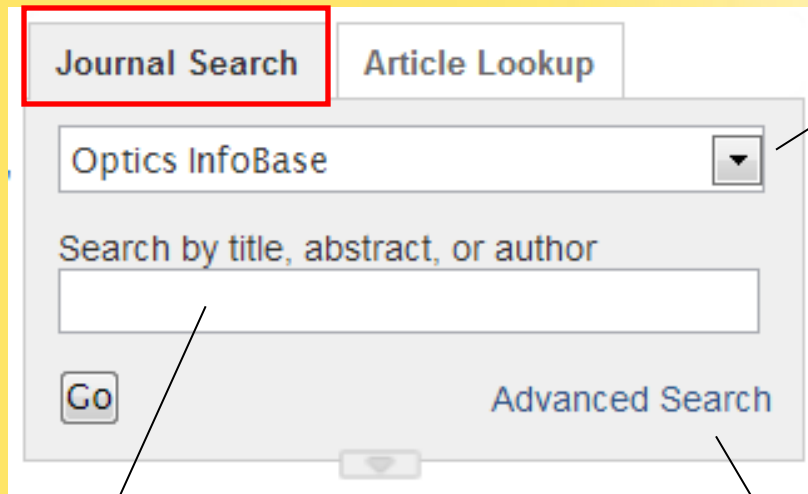
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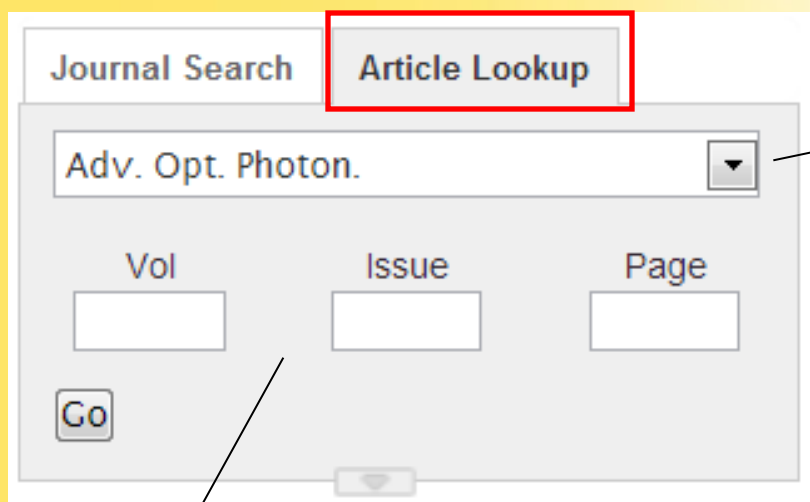
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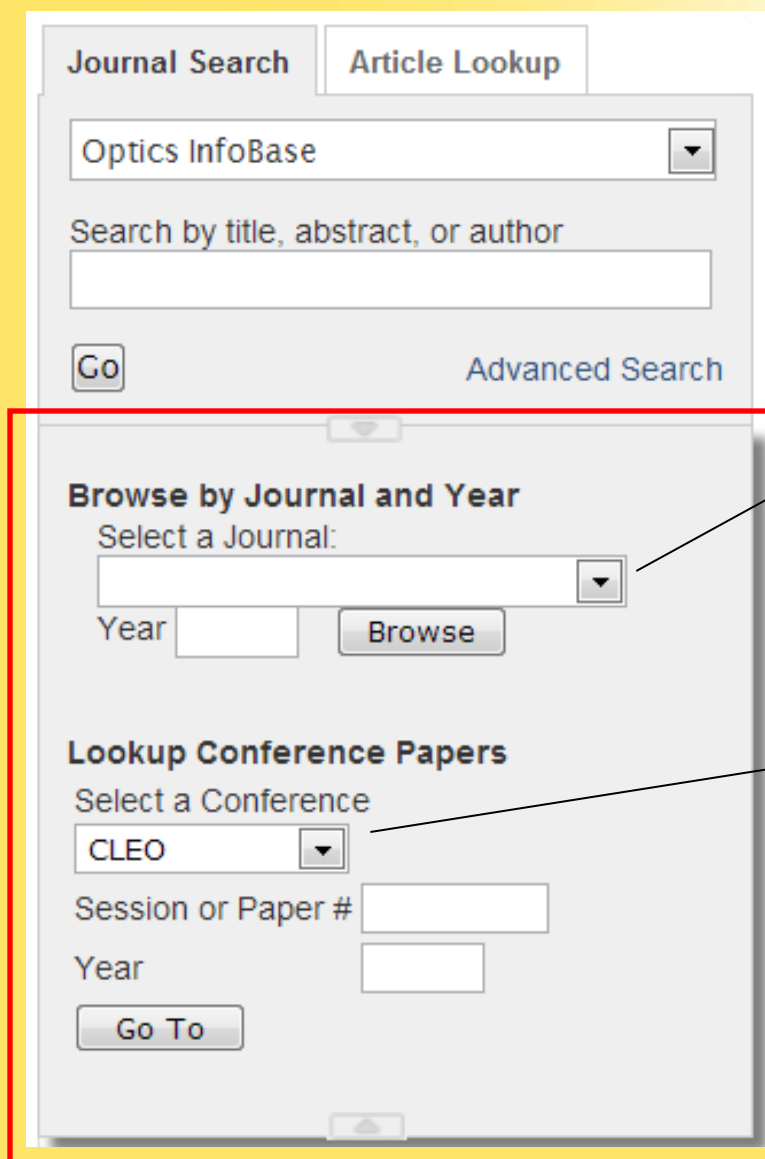
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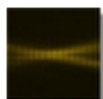
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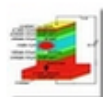
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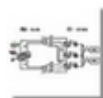
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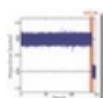
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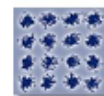
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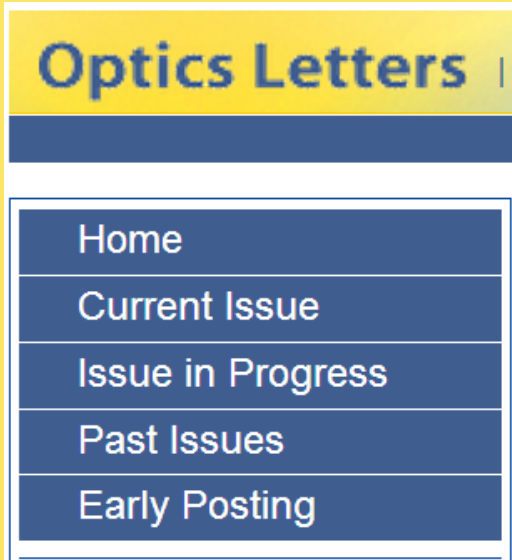
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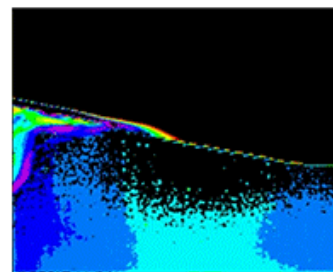
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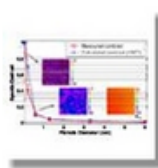
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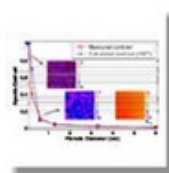
An efficient method to tune the spatial coherence of a degenerate laser over a broad range with minimum variation in the total output power is presented. It is based on varying the diameter of a spatial filter inside the laser cavity. The number of lasing modes supported by the degenerate laser can be controlled from 1 to 320,000, with less than a 50% change in the total output power. We show that a degenerate laser designed for low spatial coherence can be used as an illumination source for speckle-free microscopy that is nine orders of magnitude brighter than conventional thermal light.

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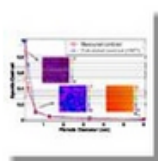
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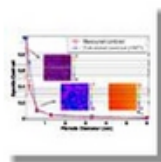
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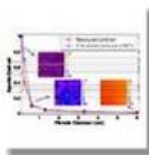


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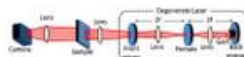


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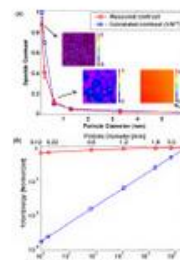


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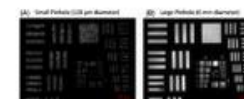
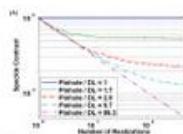


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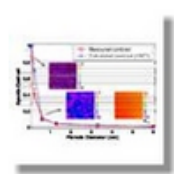
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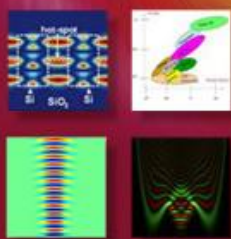
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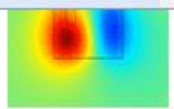


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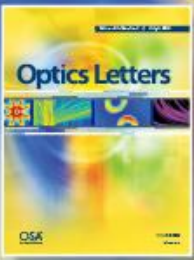
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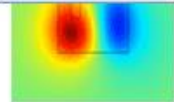
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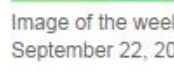
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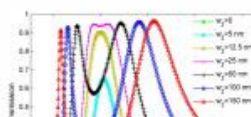
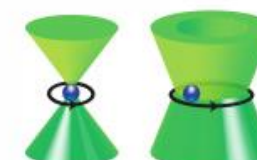
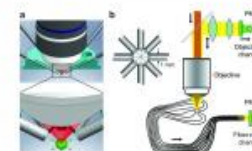
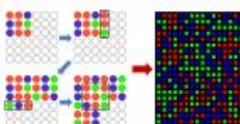
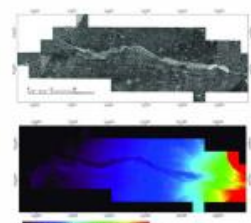
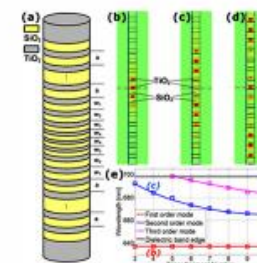
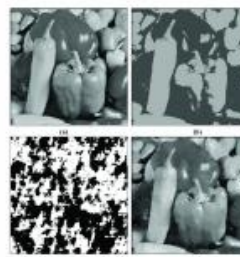
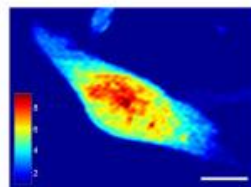
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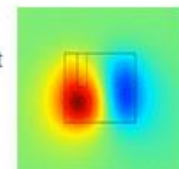


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- Manage Journals & Alerts**
- My Standard Alerts
- My Custom ToC
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Custom Journal or Alert Name	Action	Display in Custom Journals	E-mail Alert
Laser Abstract: image	Run Search  RSS Edit Delete	☐	None ▼
Create Custom Journal/Alert		Save Changes	

MANAGE CITATION ALERTS	
Citation	Remove Alert
M. Nixon, B. Redding, A. A. Friesem, H. Cao, and N. Davidson, "Efficient method for controlling the spatial coherence of a laser," Opt. Lett. 38, 3858-3861 (2013); http://dx.doi.org/10.1364/OL.38.003858	☐
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Full Record
Title
Author
Abstract
Affiliation 
Year

Search for authors' names in the following format: "Smith" or "Smith, A"

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Journals:

- | | |
|--|--|
| ☐ Adv. Opt. Photon. | ☐ J. Opt. Soc. Am. B |
| ☐ Applied Optics | ☐ J. Opt. Soc. Korea |
| ☐ Applied Spectroscopy | ☐ J. Opt. Technol. |
| ☐ Biomed. Opt. Express | ☐ Optica |
| ☐ Chinese Optics Letters | ☐ Optics & Photonics News |
| ☐ J. Display Technol. | ☐ Opt. Mater. Express |
| ☐ J. Lightwave Technol. | ☐ Optics Express |
| ☐ J. Opt. Commun. Netw. | ☐ Optics Letters |
| ☐ J. Opt. Netw. (2002-2009) | ☐ Optics News (1975-1989) |
| ☐ J. Opt. Soc. Am. (1917-1983) | ☐ Photonics Research |
| ☐ J. Opt. Soc. Am. A | ☐ Conference Papers |
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Limit Results by Content Type:

- ☐ Interactive Science Publishing (ISP) 
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Articles

Action

[Laser](#)

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[Delete](#)

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