

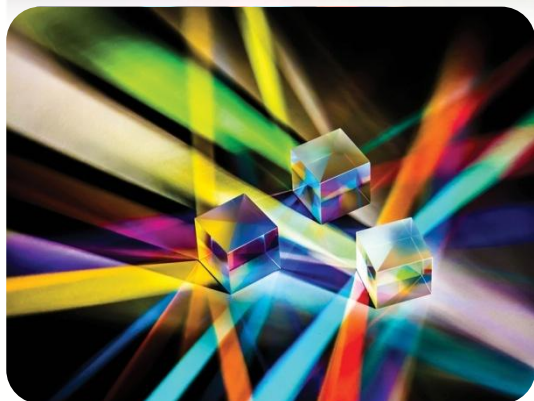


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美国光学学会数据库  
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## 目录

- OSA 美国光学学会
- OSA 出版物介绍
- OSA 在线数据库的使用

## OSA<sup>®</sup> 美国光学学会



- 美国光学学会（the Optical Society of America）  
成立于1916年，是一个科学、技术、教育性的机构，是世界上最早出版物理学期刊的出版社之一
- 目的：为了增强和传播光学的理论和应用知识，维护光学研究人员、制图师以及各种各样光学仪器的使用者的共同利益，并且促进他们之间的合作
- 目前已有23,000名会员，遍及178个国家，包括光学和光子学领域的科学家、工程师、教育家、技术人员及企业领导者
- 除了光学和光子学领域，还为物理学、生物学、医学、电气工程、通讯、天文学、气象学、材料科学、机械工程和计算等诸多领域的专家学者提供高水准的信息服务

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- **OSA Publishing:** OSA开发的基于网络的光学知识数据库，目前收录了超过420,000篇文献
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- Applied Optics 《应用光学》
- Journal of the Optical Society of America A: Optics, Image Science & Vision 《美国光学学会期刊A辑：经典光学、图像科学与视觉领域》
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The Use of Adaptive Optics Imaging for Clinical Trials - A...  
Presented by Adam Dubis, University College London, London, United ...

# The Use of Adaptive Optics Imaging for Clinical Trials

Adam M Dubis, PhD  
a.dubis@ucl.ac.uk  
Moorfields Eye Hospital &  
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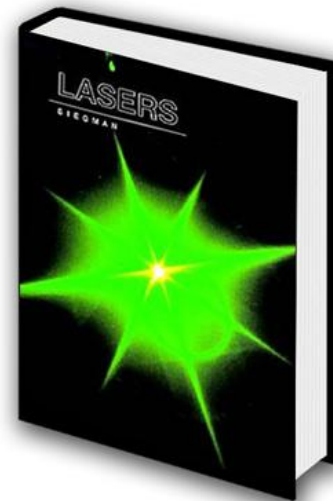
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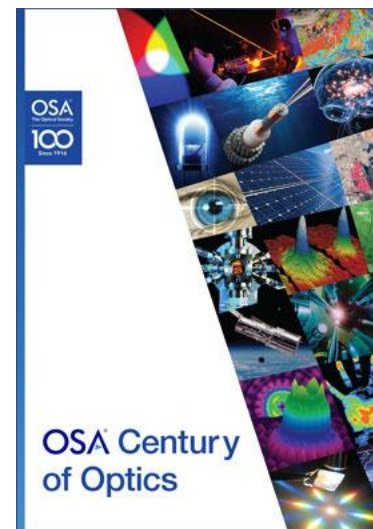
- 关于激光基本原理和理论的教科书、参考书。  
该书汇集和阐述了所有基本和重要的物理原理，以及激光设备的性能，包括激光材料的原子物理学、物理光学和激光设备的实际性能。
- 该书独特之处在于其给予激光物理一个完整、详细并且精确的对待方式，基于经典模式，不需要读者具备量子力学的背景。本质上，这是激光研究科学家和激光工程师应该所具备的。



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- 本书从光学学会的建立开始，记录了对光学、光学科学、光学工程和光子学的发展有重大影响的人员、事件和技术。
- 大量章节由具有开创性发现的科研人员和工程师撰写，结尾更是由8位杰出的科学家，包括诺贝尔奖得主Steven Chu博士，来推测未来100年中光学领域的发展。



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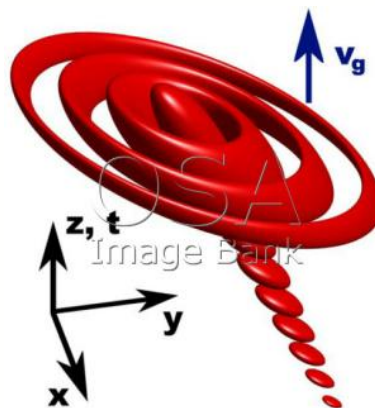
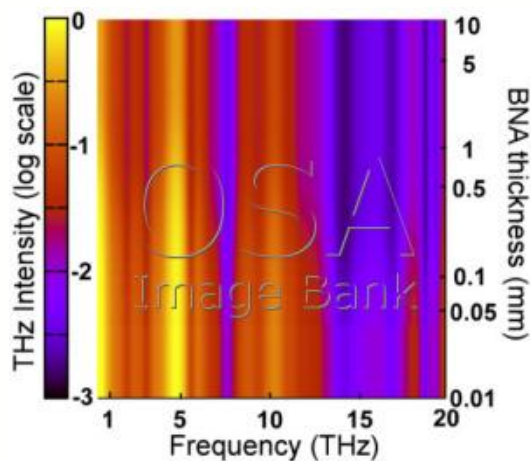
- 此书由光学与光子学新闻组制作，以纪念OSA学会创立100周年。全系列共4册，以叙述、照片及其它视觉效果的方式，讲述了OSA的起源和发展，并预测未来100年OSA学会及其所处的光学和光子学学科的发展趋势。



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OL	3.776	22	74,402	13
OpEx	3.894	20	129,224	14
JOCN	3.984	19	3,407	9
OMEx	3.442	26	8,443	29
JOSA B	2.106	56	14,539	36
AO	1.980	62	51,811	49
COL	2.448	46	2,898	43
JOSA A	2.129	54	15,128	48
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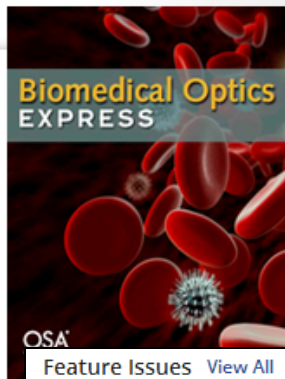
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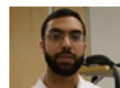
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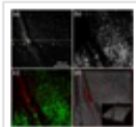
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## Dual-modality fiber-based OCT-TPL imaging system for simultaneous microstructural and molecular analysis of atherosclerotic plaques

Tianyi Wang, Austin McElroy, David Halaney, Deborah Vela, Edmund Fung, Shafat Hossain, Jennifer Phipps, Bingqing Wang, Biwei Yin, Marc D. Feldman, and Thomas E. Milner

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### Abstract

New optical imaging techniques that provide contrast of atherosclerotic plaque formation, progression and disease. We present a dual-modality fiber-based OCT-TPL imaging system for simultaneous microstructural and molecular analysis of atherosclerotic plaques that combines optical coherence tomography (OCT) with two-photon luminescence (TPL) imaging. The system is demonstrated in recorded OCT-TPL images of ex vivo human coronary atherosclerotic plaques. The TPL signal in recorded OCT-TPL images is correlated with histological analysis. Molecules detected by TPL imaging can be identified and characterized by OCT, providing non-invasive identification and characterization of atherosclerotic plaques.

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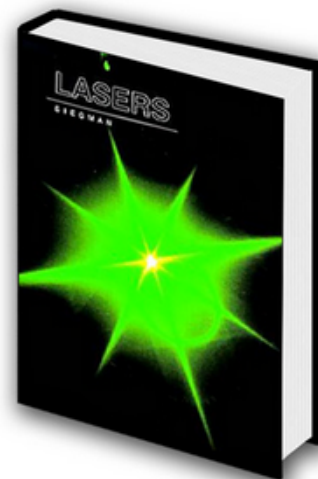
By Anthony E. Siegman

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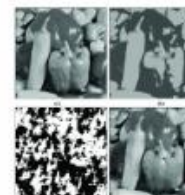
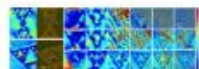
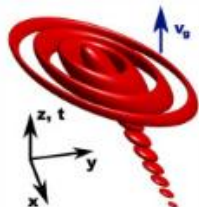
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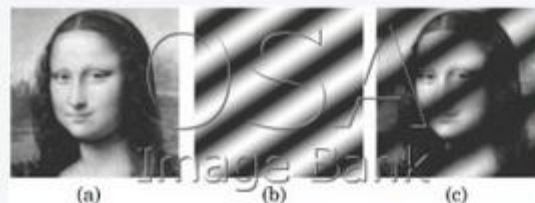
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Fig. 3. Decomposition of natural image into Fourier components. (a) All image can be expressed as a sum of 2D Fourier basis functions [e.g., (b)] by taking the sum over all values in (c) the basis-scale image.

#### Citation

Patrick Robert Gill, Changhyuk Lee, Dong-Gue Lee, Albert Wang, Alyosha Molnar, "A microscale camera using direct Fourier-domain scene capture," *Opt. Lett.* **36**(15), 2949-2951 (2011).

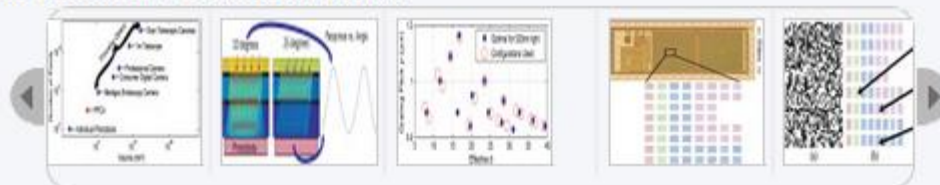
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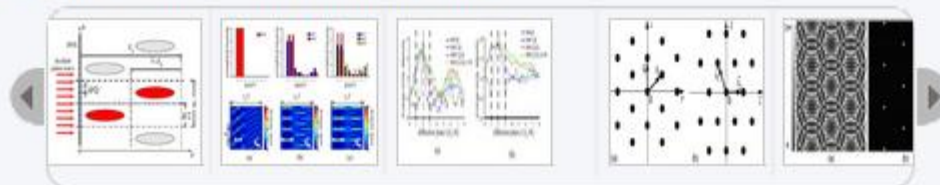
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