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PROCEEDINGS VOLUME 6425 Lasers in Dentistry XIII. Editor(s): Peter Rechmann D.D.S.; Daniel Fried. For the purchase of this volume in printed format, please visit Proceedings.com . Volume Details. Volume Number: 6425 Date Published: 9 February 2007 Table of Contents ...

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Jose, California, USA. [Peter Rechmann; Daniel S Fried; Society of Photo-optical Instrumentation Engineers.;]

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## **Proceedings of lasers in dentistry III : 8-9 February 1997 ...**

The combination of two- and three-dimensional images of the tooth has the potential for highly sensitive and specific detection of dental caries. Paper Details Date Published: 9 February 2007 PDF: 7 pages Proc. SPIE 6425, Lasers in Dentistry XIII, 642502 (9 February 2007); doi: 10.1117/12.702131

## **Multimodal imaging system for**

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## **dental caries detection ...**

This section of the Dentistry Journal aims to rapidly publish contributions on laser technologies, applications, education, therapy, etc. Lasers have been used in dentistry since 1982 to treat a number of dental problems. Lasers were introduced into the field of dentistry as they are a precise and effective way to perform many dental procedures.

## **Lasers in Dentistry - A section of Dentistry Journal**

In the continuously growing field of dental laser applications, this journal provides a forum for the publication of manuscripts on experimental, preclinical, and clinical aspects of the use of dental lasers. The journal publishes original articles, reviews, and short reports, and letters to the editor as enhancements to discussions.

## **Lasers in Dental Science | Home - Springer**

All lasers work by delivering energy in

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the form of light. When used for surgical and dental procedures, the laser acts as a cutting instrument or a vaporizer of tissue that it comes in contact...

## **Laser Use in Dentistry - WebMD**

Laser dentistry is the use of lasers to treat a number of different dental conditions. It became commercially used in clinical dental practice for procedures involving tooth tissue in 1989.

## **Laser Dentistry: Cavities, Cost, Dentistry, Benefits ...**

Title: Pacific Rim Laser Damage 2019: Optical Materials for High-Power Lasers  
Desc: Proceedings of a meeting held 19-22 May 2019, Qingdao, China. At Pacific Rim Laser Damage 2019 and Thin Film Physics and Applications 2019  
Series: Proceedings of SPIE Volume 11063 Editor: Shao, Jianda  
ISBN: 9781510628168 Pages: 394 (1 Vol)  
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## **PACIFIC RIM LASER DAMAGE 2019: OPTICAL ... - proceedings.com**

Fábio Renato P. Robles, Fausto Medeiros Mendes M.D., and Adriana Bona Matos M.D. "The sound of dental tissue ablation as a possible parameter for conservative dentistry", Proc. SPIE 6425, Lasers in Dentistry XIII, 64250Q (8 March 2007); <https://doi.org/10.1117/12.702448>

## **The sound of dental tissue ablation as a possible ...**

Title:9th International Symposium on Advanced Optical Manufacturing and Testing Technologies: Subdiffraction-limited Plasmonic Lithography and Innovative Manufacturing Technology  
Desc:Proceedings of a meeting held 26-29 June 2018, Chengdu, China.  
Series:Proceedings of SPIE Volume 10842 Editor:Pu, Mingbo  
ISBN:9781510623262 Pages:340 (1 Vol)  
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## **9TH INTERNATIONAL SYMPOSIUM ON ADVANCED ... - proceedings.com**

Periodontal experts address clinical efficacy of laser usage in patient care. CHICAGO - September 11, 2018 - The American Academy of Periodontology (AAP), the leading professional organization dedicated to the dental specialty of periodontics, has published its "best evidence consensus" (BEC) panel proceedings on the topic of laser usage. The proceedings are the result of the AAP's ...

## **American Academy of Periodontology Publishes Proceedings ...**

In Lasers in Dentistry XIII [642502] (Progress in Biomedical Optics and Imaging - Proceedings of SPIE; Vol. 6425).

<https://doi.org/10.1117/12.702131>

Multimodal imaging system for dental caries detection.

## **Multimodal imaging system for**

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## **dental caries detection ...**

Lasers are now routinely used for many applications in dentistry including the ablation of dental caries. The objective of this study was to test the hypothesis that real-time NIR imaging can be used to monitor laser-ablation under varying conditions to assess peripheral thermal and transient-stress induced damage and to measure the rate and ...

## **Real-time near-IR imaging of laser-ablation crater ...**

Dentists use lasers in a variety of procedures involving the inside of the mouth, be it to remove overgrown tissue, to reshape the gums, or to whiten teeth. Sometimes, laser dentistry is ideal for children who become anxious or afraid when having dental work done. What Laser Dentistry Can Treat

## **What is Laser Dentistry? Learn about this innovative type ...**

In this article the application of visible and UV lasers in the field of



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photomedicine are reviewed. The use of lasers in biomedical research, therapy, and diagnosis is mentioned [1,2,3].

## **Lasers in Photomedicine | SpringerLink**

We present recent results on high-power, high-efficiency two-dimensional vertical-cavity surface-emitting laser (VCSEL) arrays emitting around 808nm. Selectively oxidized, top-emitting single VCSEL emitters with 49% power conversion efficiency were developed as the basic building block of these arrays.

## **Progress in high-power high-efficiency VCSEL arrays**

In 2019, Dr. Barros was the recipient of the Academy of Laser Dentistry's T.H. Maiman Award for Excellence in Dental Laser Research. Disclosure : Dr. Barros has only academic interests in further studying and understanding lasers and their interactions with biological tissues.

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