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The response of tissue to laser radiation spans the gauntlet from biostimulation at irradiance levels of mW to the violent disruptions of tissue with short pulses that have MW peak irradiances. The end result of laser interaction with tissue is governed by energy Deposition that depends upon laser parameters and tissue properties.

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Laser based techniques are in continuous development in medical research, diagnostics, and therapeutics. For example, in ophthalmology these techniques are ranging from a well established technique such as photocoagulation of retinal vessels with blue light from continuous emitting argon ion lasers, to the more recently developed technique with pulsed infrared emission from neodymium-yttrium ...

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Laser-tissue interactions involve (1) the physical mechanism of interaction [photothermal, photochemical, photomechanical], (2) the biological level of interaction [tissue/organ, cellular, organellar], and (3) the time course of the interaction [immediate physical effect, short-term biological response, long-term healing and structure/function].

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PROCEEDINGS VOLUME 3195 Laser-Tissue Interaction, Tissue Optics, and Laser Welding III

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MRI-guided holmium:YAG interstitial laser phototherapy and cavitron ultrasonic aspiration in an ex-vivo model: a comparison and dosimetry study of laser/ultrasonic tissue interactions

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613 In-vivo imaging of the development of linear and non- linear retinal laser effects using optical coherence tomography in correlation with histopathological findings Reginald Birngruber, Michael R. Hee, Stephen A. Boppart, James G. Fujimoto, Eric A. Swanson, Cynthia A. Toth, Cheryl D. DiCarlo, Clarence P. Cain, Gary D. Noojin, William P. Roach (in Laser-Tissue Interaction VI, S.L. Jacques ...

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Selected Papers on Ultrashort Laser Pulse ... - SPIE

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Time dispersion plays an important role in the propagation of femtosecond pulses through water. The combined effects of time dispersion, radial diffraction and the Kerr nonlinearity on the pulse propagation are analyzed and it is shown that normal time dispersion leads to significant temporal broadening of ultrashort pulses and that it increases the threshold power for catastrophic self-focusing.

Femtosecond laser-tissue interaction - SPIE

In this paper, we present our findings of the effect of the Erbium:YAG laser on cornea, trabecular meshwork, and retinal tissue. We believe the laser is a safe and effective cutting tool with tremendous potential for surgical application.

Erbium:YAG laser-tissue interactions - SPIE

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Laser-tissue interaction Laser-tissue interaction Welch, Ashley J. 1996-12-05 00:00:00 JJeffZ (z) = AEoe Where $A > 1$ and the effective attenuation coefficient, $neff I_3po[jio + ,us(1 -g)]$. Since A is greater than one, the depth that $= Eoe1$ is deeper than the so-called effective penetration depth $1 I/Jeff$.

Laser-tissue interaction, Proceedings of SPIE | 10.1117/12 ...

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Laser Interaction With Tissue Proceedings Of Spie [EBOOK]

Ultrafast laser tool developed under European project will combine artificial intelligence and endoscopy. A European project starting this week will aim to advance laser-based coherent Raman scattering (CRS) microscopy in order to gain a better understanding of the cellular mechanisms behind the ...

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