

Ultrashort laser pulses in Medical Imaging

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Ultrashort laser pulses deliver broadband sources for excitation of multiple fluorophores at the same time, therefore providing to medical imaging systems an advance tool for imaging deeper into samples. Furthermore, due to their short pulse duration, and smaller average power they also allow to extend the life time of in vivo samples. Ultrashort laser pulses can also be used in surgery for removing damaged tissues in very difficult areas with reduced access, therefore being excellent tools in medical applications.

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