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function of laser wavelength. The wavelength of the UV krypton fluoride excimer laser and the IR Nd:YAG solid-state and CO₂ gas laser, are also shown in this figure. Due to the properties shown in Table 1, materials processing lasers are capable of both

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momentum transfer is doubled •
eg momentum transferred from Nd:YAG laser photon

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with materials : physical ... And

The laser-matter interaction is an interdisciplinary and complicated subject [1]. When the material is irradiated with lasers, the laser energy will be firstly transformed into electronic excitation energy and then transferred to lattices of

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materials through collisions
between electrons and lattices.

Interaction Between Pulsed Laser
and Materials

Fundamentals of Laser-Material
Interaction and Application to
Multiscale Surface Modification

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Matthew S. Brown and Craig B.

Arnold Abstract Lasers provide the ability to accurately deliver large amounts of energy into confined regions of a material in order to achieve a desired response.

Chapter 4 Fundamentals of Laser-

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This additive process uses a silica precursor gas coupled with a CO₂ laser beam to deposit material on

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the damaged surface with nanoscale precision. The precursor gas flows through a nozzle onto the optic surface along with the laser beam. The beam then decomposes the gas and deposits solid SiO_2 on the damaged optic surface.

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the laser – material interaction, is very sensitive to the laser pulse shape, so we compared the effects produced by a Table 1. Parameters used for simulation of the

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alexandrite laser beam interaction with the P7295-2 carbon fiber.

Pulse duration 20 ms Pulse repetition 1 Hz Energy density 36

J cm² Beam diameter 10 mm

Wavelength 755 nm

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