Femtosecond interaction processes near threshold: damage and ablation

Fabrication of the refractive index gratings in optical glasses by filamentary propagation of femtosecond laser pulses

Laser damage on diffractive optics

Limits of performance: CW laser damage

Thermal imaging investigation of modified fused silica at surface damage sites for understanding the underlying mechanisms of damage growth

Revisited thermal approach to model laser-induced damage and conditioning process in KH$_2$PO$_4$ and D$_{2x}$KH$_2(1-x)$PO$_4$ crystals

Figures of merit for high-energy laser-window materials: thermal lensing and thermal stresses

Importance of free surfaces for damage crater formation

Damages to optical silica glass: processes and mechanisms

Using gold nanoparticles as artificial defects in thin films: What have we learned about laser-induced damage driven by localized absorbers?

Study of the evolution of mechanical defects on silica samples under laser irradiation at 355 nm

Numerical and experimental study of focal spot degradation induced by particles on surface optics

Influence of artificial metallic defects size on the surface cleaning process

Effects of laser-induced damage on optical windows in the presence of adhesives under simulated thermal-vacuum conditions

Impact of organic contamination on 1064-nm laser-induced damage threshold of dielectric mirrors

Laser-induced contamination of silica coatings in vacuum

The effect of laser pulse duration on laser-induced damage in KDP and SiO$_2$

Growth of laser damage on the input surface of SiO$_2$ at 351 nm

Mitigation of growth of laser initiated surface damage in fused silica using a 4.6-μm wavelength laser (best poster presentation)

MRF applications: on the road to making large-aperture ultraviolet laser resistant continuous phase plates for high-power lasers

Evaluation of cleaning methods for multilayer diffraction gratings

Investigations of sacrificial and plasma mirrors on the HELEN laser CPA beam

Surface damage growth mitigation on KDP/DKDP optics using single-crystal diamond micro-machining ball end mill contouring

Optical coatings and surfaces in space: MISSE

Laser qualification testing of space optics

Damage threshold investigations of high-power laser optics under atmospheric and vacuum conditions

Surface particulate contamination of the LIL optical components and their evolution under laser irradiation

Ophthalmic optical coatings: the real world can be more aggressive than you think
A mechanism for erosion of optics exposed to a laser-generated EUV plasma

Xtreme optics: the behavior of cavity optics for the Jefferson Lab Free-Electron Laser

Magnetron-sputtered nanolaminate and superlattice coatings

Laser-induced damage in gradual index layers and Rugate filters

Glancing angle deposited thin films and their applications in laser systems

Assessing the impact of atomic oxygen in the damage threshold and stress of Hafnia films grown by ion beam sputter deposition

The microstructure and LIDT of Nb$_2$O$_5$ and Ta$_2$O$_5$ optical coatings

Study of laser-induced damage at 2 microns on coated and uncoated ZnSe substrates

Direct measurements of residual absorption in fluoridic thin films and optical materials for DUV laser applications

Laser resistivity of selected multilayer designs for DUV/VUV applications

Morphology investigations of laser-induced damage

Improvement in laser irradiation resistance of fs-dielectric optics using silica mixtures

Multilayer dielectric gratings for ultrashort pulse compressor

Optical characterization of anti reflective sol-gel coatings fabricated using dip coating method

Optical characterization in laser damage studies (best oral presentation)

Blackbody thermoluminescence: the missing link to laser-induced damage in silica

Measuring part per million thin film absorption during deposition

Carbon-based coatings for thermal detectors: laser damage and thermal efficiency

Measurement of low-absorption optics by thermal imaging

Characterization of absorption losses in deep UV optical materials

In situ observation of UV-laser-induced deposit formation by fluorescence measurement

Characterization of thin films and bulk materials for DUV optical components

Results of sub-nanosecond laser-conditioning of KD$_2$PO$_4$ crystals

Laser conditioning of KDP crystals using excimer and Nd:YAG lasers

Impurities detection by optical techniques in KH$_2$PO$_4$ crystals

Characterization tools for KDP/DKDP crystals investigation: toward the identification of laser-damage precursors: part A: structural characteristics of rapidly grown crystals

Influence of the laser beam size on laser-induced damage in KH$_2$PO$_4$ crystals

An expedited approach to evaluate the importance of different crystal growth parameters on laser damage performance in KDP and DKDP

The effect of pulse duration on laser-induced damage by 1053-nm light in potassium dihydrogen phosphate crystals
Characterization of KDP crystals used in large aperture doublers and triplers
Laser damage investigation in RbTiOPO$_4$ crystals: a study on the anisotropy of the laser induced damage threshold
Laser-induced bulk damage in Yb:S-FAP crystals
Characterization of the mid-infrared nonlinear crystals LiInSe$_2$ and LiInS$_2$ in the IR range
The mechanism of ionization radiation-induced compaction in fused
Nanosecond laser-induced breakdown in pure and Yb$^{3+}$-doped fused silica
Photochemical adhesion of fused silica optical elements with no adhesive strain
Mitigation of laser damage on fused silica surfaces with a variable profile CO2 laser beam
Refractive microlens structures with high-damage thresholds enable flexible beam shaping of high-power lasers
Laser-induced damage thresholds of starched PMMA waveplates
A year of automated LDT testing on ion beam sputtered thin film optics and laser conditioning of IBS films
Automated laser-damage test system with real-time damage event imaging and detection
Qualification of materials for applications in high fluence lasers
Materials discovery: informatic strategies for optical materials

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