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Title: Antireflective coatings with adjustable transmittance and high laser-induced damage threshold prepared by deposition of magnesium fluoride nanoparticles

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Highlights

Antireflective coatings were prepared by depositing MgF₂ nanoparticles.

The coatings show adjustable transmittance and high laser-induced damage thresholds.

The relationship between microstructures and optical properties are investigated.

The band gap theory explains the high Laser-induced damage thresholds of coatings.

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