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The simplest application of laser ablation is to remove material from a solid surface in a controlled fashion. Laser machining and particularly laser drilling are examples; pulsed lasers can drill extremely small, deep holes through very hard materials.

In this perspective, laser interaction with materials and its applications in precision engineering are mainly introduced for the manufacturing, as well as maintenance, re-

pair, and overhaul (MRO ...

Laser ablation is a green and simple method for fabricating the metal nanoparticles without surfactant or chemical addition. Advantages of laser ablation technique are simplicity, the high purity of the nanoparticles, the ability to prepare variety metals and ceramics, and the in-situ dispersion of the nanoparticles in a variety of liquids [1].

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Laser ablation describes the interaction of intense optical fields with matter, in which atoms are selectively driven off by thermal

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Laser Ablation and its Applications emphasizes the wide range of these topics rather than - as is so often the case in advanced science - focusing on one specialty or discipline. The book is divided into four sections: theory and modeling, ultrafast interactions, material processing and laser-matter interaction in novel regimes.

Laser ablation provides a simple and widely employed tool for preparing nanoparticles not only of metals, but refractory materials as well. An advantage of this technique is that the chemical composition of the resulting nanoparticles reflects the composition of the target material.

Laser ablation occurs when a laser beam removes material from a localized area. Used in various industrial applications, this process can create permanent marks (laser marking), remove contaminants and coatings from surfaces (laser cleaning), modify a part's roughness (laser texturing), cut through a surface (laser cutting) and much more.

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Laser ablation - Wikipedia

This is the first book that combines the most recent results in this rapidly advancing field with authoritative treatment of laser ablation and its applications, including the physics of high-power laser-matter interaction. Many practical applications exist, ranging from inertial confinement fusion to propulsion of aerostats for pollution monitoring to laser ignition of hypersonic engines to laser cleaning nanoscale contaminants in high-volume computer hard drive manufacture to direct ...

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Given the fact that laser ablation can remove layers off a surface of a material while causing minimal damage to the surrounding area, it is widely used by dentists. One of the most common applications in this industry is for removing tooth enamel. Cleaning surfaces. Remember that we mentioned that ablation is very similar to laser cleaning?

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Pulsed laser ablation (PLA) is a widely used

technology, for surface structuring and tile decoration in the ceramic industry.

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These studies paved the ways toward the development of numerous laser applications, ranging from laser micro- and nanomachining to material analysis, nanoparticle and nanostructure formation, thin-film deposition, etc. Recently, more and more promising novel fields of laser applications have appeared, including biomedicine, catalysis, photovoltaic cells, etc.

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