

1. Record Nr.	UNINA9910169205903321
Autore	Dongfang Yang
Titolo	Applications of Laser Ablation : Thin Film Deposition, Nanomaterial Synthesis and Surface Modification / / edited by Dongfang Yang
Pubbl/distr/stampa	IntechOpen, 2016 Rijeka, Croatia : , : IntechOpen, , 2016
ISBN	953-51-4129-5 953-51-2812-4
Descrizione fisica	1 online resource (428 pages) : illustrations
Disciplina	621.3
Soggetti	Laser ablation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	Laser ablation refers to the phenomenon in which a low wavelength and short pulse (ns-fs) duration of laser beam irradiates the surface of a target to induce instant local vaporization of the target material generating a plasma plume consisting of photons, electrons, ions, atoms, molecules, clusters, and liquid or solid particles. This book covers various aspects of using laser ablation phenomenon for material processing including laser ablation applied for the deposition of thin films, for the synthesis of nanomaterials, and for the chemical compositional analysis and surface modification of materials. Through the 18 chapters written by experts from international scientific community, the reader will have access to the most recent research and development findings on laser ablation through original research studies and literature reviews.