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ULTRAFAST LASER PROCESSING

From Micro- to Nanoscale



Ultrafast Laser Processing From Micro To Nanoscale

Paolo M. Ossi



Ultrafast Laser Processing From Micro To Nanoscale:

Ultrafast Laser Processing Koji Sugioka, Ya Cheng, 2013-06-24 Over the past few decades the rapid development of ultrafast lasers such as femtosecond lasers and picosecond lasers has opened up new avenues for material processing due to their unique features such as ultrashort pulse width and extremely high peak intensity These techniques have become a common tool for micro and nanoprocessing of a variety of materials

Micro and Nanoscale Laser Processing of Hard Brittle Materials Jiwang Yan, Nozomi Takayama, 2019-11-12 Micro and Nanoscale Laser Processing of Hard Brittle Materials examines general laser material interactions within this type of material focusing on the nanoprocessing technologies that these phenomena have given rise to Sections cover laser machining healing recovery sintering surface modification texturing and microstructuring These technologies all benefit from the characteristics of laser processing its highly localized heating ability and its well defined optical properties The book also describes frontier applications of the developed technologies thus further emphasizing the possibility of processing hard brittle materials into complex structures with functional surfaces at both the micro and nanoscale Provides readers with a solid understanding of laser material interactions Helps readers choose suitable laser parameters for processing hard brittle materials Demonstrates how micro and nanoscale laser processing can be used to machine brittle materials without fracture

Ultrafast Laser Nanostructuring Razvan Stoian, Jörn Bonse, 2023-04-06 Bringing together contributions from leading experts in the field this book reviews laser processing concepts that allow the structuring of material beyond optical limits and methods that facilitate direct observation of the underlying mechanisms by exploring direct structuring and self organization phenomena The capacity to nanostructure material using ultrafast lasers lays the groundwork for the next generation of flexible and precise material processing tools Rapid access to scales of 100 nm and below in two and three dimensions becomes a factor of paramount importance to engineer materials and to design innovative functions To reflect the dynamic nature of the field at all levels from basic science to applications the book is divided into three parts Fundamental Processes Concepts of Extreme Nanostructuring and Applications each of which is comprehensively covered This book will be a useful resource for graduate students and researchers in laser processing materials engineering and nanoscience

Advances in Ultrafast Optics Fei He, Derong Li, Wei Quan, Shufeng Wang, Zhiyi Wei, Heping Zeng, 2018-09-10 No detailed description available for Advances in Ultrafast Optics

Pulsed Laser Ablation Ion N. Mihailescu, Anna Paola Caricato, 2018-01-09 Pulsed laser based techniques for depositing and processing materials are an important area of modern experimental and theoretical scientific research and development with promising challenging opportunities in the fields of nanofabrication and nanostructuring Understanding the interplay between deposition processing conditions laser parameters as well as material properties and dimensionality is demanding for improved fundamental knowledge and novel applications This book introduces and discusses the basic principles of pulsed laser matter interaction with a focus on its peculiarities and perspectives compared to other conventional

techniques and state of the art applications The book starts with an overview of the growth topics followed by a discussion of laser matter interaction depending on laser pulse duration background conditions materials and combination of materials and structures The information outlines the foundation to introduce examples of laser nanostructuring processing of materials pointing out the importance of pulsed laser based technologies in modern nano science With respect to similar texts and monographs the book offers a comprehensive review including bottom up and top down laser induced processes for nanoparticles and nanomicrostructure generation Theoretical models are discussed by correlation with advanced experimental protocols in order to account for the fundamentals and underline physical mechanisms of laser matter interaction Reputed internationally recognized experts in the field have contributed to this book In particular this book is suitable for a reader graduate students as well as postgraduates and more generally researchers new to the subject of pulsed laser ablation in order to gain physical insight into and advanced knowledge of mechanisms and processes involved in any deposition processing experiment based on pulsed laser matter interaction Since knowledge in the field is given step by step comprehensively this book serves as a valid introduction to the field as well as a foundation for further specific readings

Handbook of Laser Micro- and Nano-Engineering Koji Sugioka, 2021-11-13 This handbook provides a comprehensive review of the entire field of laser micro and nano processing including not only a detailed introduction to individual laser processing techniques but also the fundamentals of laser matter interaction and lasers optics equipment diagnostics as well as monitoring and measurement techniques for laser processing Consisting of 11 sections each composed of 4 to 6 chapters written by leading experts in the relevant field Each main part of the handbook is supervised by its own part editor s so that high quality content as well as completeness are assured The book provides essential scientific and technical information to researchers and engineers already working in the field as well as students and young scientists planning to work in the area in the future Lasers found application in materials processing practically since their invention in 1960 and are currently used widely in manufacturing The main driving force behind this fact is that the lasers can provide unique solutions in material processing with high quality high efficiency high flexibility high resolution versatility and low environmental load Macro processing based on thermal process using infrared lasers such as CO₂ lasers has been the mainstream in the early stages while research and development of micro and nano processing are becoming increasingly more active as short wavelength and or short pulse width lasers have been developed In particular recent advances in ultrafast lasers have opened up a new avenue to laser material processing due to the capabilities of ultrahigh precision micro and nanofabrication of diverse materials This handbook is the first book covering the basics the state of the art and important applications of the dynamic and rapidly expanding discipline of laser micro and nanoengineering This comprehensive source makes readers familiar with a broad spectrum of approaches to solve all relevant problems in science and technology This handbook is the ultimate desk reference for all people working in the field Lasers in Materials Science Marta Castillejo, Paolo M. Ossi, Leonid

Zhigilei,2014-01-08 This book covers various aspects of lasers in materials science including a comprehensive overview on basic principles of laser materials interactions and applications enabled by pulsed laser systems The material is organized in a coherent way providing the reader with a harmonic architecture While systematically covering the major current and emerging areas of lasers processing applications the Volume provides examples of targeted modification of material properties achieved through careful control of the processing conditions and laser irradiation parameters Special emphasis is placed on specific strategies aimed at nanoscale control of material structure and properties to match the stringent requirements of modern applications Laser fabrication of novel nanomaterials which expands to the domains of photonics photovoltaics sensing and biomedical applications is also discussed in the Volume This book assembles chapters based on lectures delivered at the Venice International School on Lasers in Materials Science which was held in Isola di San Servolo Venice Italy in July 2012 **Pulsed Laser Processing of Electronic Materials in Micro/nanoscale** David Jen

Hwang,2005 **Engineering Design Applications II** Andreas Öchsner,Holm Altenbach,2019-06-27 This book offers an update on recent developments in modern engineering design Different engineering disciplines such as mechanical materials computer and process engineering provide the foundation for the design and development of improved structures materials and processes The modern design cycle is characterized by the interaction between various disciplines and a strong shift to computer based approaches where only a few experiments are conducted for verification purposes A major driver for this development is the increased demand for cost reduction which is also linked to environmental demands In the transportation industry e g automotive or aerospace the demand for higher fuel efficiency is related to reduced operational costs and less environmental damage One way to fulfil such requirements is lighter structures and or improved processes for energy conversion Another emerging area is the interaction of classical engineering with the health and medical sector Advances in the Application of Lasers in Materials Science Paolo M. Ossi,2018-10-01 The book covers recent advances and progress in understanding both the fundamental science of lasers interactions in materials science as well as a special emphasis on emerging applications enabled by the irradiation of materials by pulsed laser systems The different chapters illustrate how by careful control of the processing conditions laser irradiation can result in efficient material synthesis characterization and fabrication at various length scales from atomically thin 2D materials to microstructured periodic surface structures This book serves as an excellent resource for all who employ lasers in materials science spanning such different disciplines as photonics photovoltaics and sensing to biomedical applications

Enjoying the Song of Phrase: An Psychological Symphony within **Ultrafast Laser Processing From Micro To Nanoscale**

In some sort of used by displays and the ceaseless chatter of instantaneous conversation, the melodic elegance and mental symphony created by the written word usually fade into the backdrop, eclipsed by the relentless noise and disturbances that permeate our lives. However, nestled within the pages of **Ultrafast Laser Processing From Micro To Nanoscale** an enchanting literary value full of natural emotions, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, that charming masterpiece conducts viewers on an emotional journey, skillfully unraveling the concealed songs and profound impact resonating within each carefully crafted phrase. Within the depths of the moving analysis, we will examine the book is main harmonies, analyze its enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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