



## Nanoparticles by Continuous-wave Laser Ablation in Liquid:

By Sohaib Zia Khan

LAP Lambert Acad. Publ. Aug 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x14 mm. This item is printed on demand - Print on Demand Neuware - Laser ablation in liquid is becoming an important technique for the generation of nanoparticles (NPs). Until now only pulsed lasers have been used; this is a pioneer work, using high-power, high-brightness continuous-wave (CW) fibre laser ablation in liquid, for the generation of NPs. A mechanism is proposed based on experimental observations, including high-speed imaging and emission spectroscopic analysis of the ablated plume. Three different target materials (Titanium, Nickel and Alpha-aluminium-oxide), submerged in either water or sodium dodecyl sulphate (SDS) solution at various concentrations were used. The characterisation of the generated metal-oxide NPs, in terms of size, size-distribution, shape, chemical composition and phase structure was carried out by UV-Vis photo-spectroscopy, transmission electron microscopy (TEM), high-resolution TEM with energy-dispersive X-rays spectroscopy and X-ray diffraction. This study paves a route towards a new application of CW fibre lasers. The book is useful to engineering students, professional engineers, researchers, academicians and scientists in materials, NPs characterisation, mechanical, laser processing and related disciplines. 240 pp. Englisch.



**READ ONLINE**  
[ 3.92 MB ]

### Reviews

*A top quality publication along with the font used was intriguing to read. I really could comprehend everything using this written e book. Its been designed in an remarkably straightforward way and it is only after i finished reading through this publication by which basically altered me, modify the way i believe.*

-- **Cathrine Larkin Sr.**

*Very useful to all of group of people. I actually have read through and so i am certain that i will planning to study yet again once again down the road. I am just very easily can get a satisfaction of looking at a created book.*

-- **Mark Bernier**

## See Also



### **The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds**

Anness Publishing. Paperback. Book Condition: new. BRAND NEW, The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds, Nicola Baxter, Geoff Ball, This is a super-size first reading book for 3-5 year olds, with an engaging story, colourful pictures...



### **What Should I Do with the Rest of My Life?: True Stories of Finding Success, Passion, and New Meaning in the Second Half of Life**

Book Condition: New. BRAND NEW BOOK! A+ CUSTOMER SERVICE! 100% MONEY BACK GUARANTEE! FAST, SAME BUSINESS DAY SHIPPING!.



### **Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...



### **Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: ( Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)**

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Getting Your FREE Bonus Download this book, read it to the end and see BONUS: Your FREE Gift chapter after...



### **Most cordial hand household cloth (comes with original large papier-mache and DVD high-definition disc) (Beginners Korea(Chinese Edition)**

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: Unknown in Publisher: Henan Science and Technology Press Information Original Price: 78.00 yuan Author: Publisher: Henan Science and...



### **Growing Up: From Baby to Adult High Beginning Book with Online Access**

Cambridge University Press, 2014. UNK. Book Condition: New. New Book. Shipped from US within 10 to 14 business days. Established seller since 2000.