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| Titolo                  | X-ray and related techniques : selected, peer reviewed papers of the International Conference on X-ray and Related Techniques in Research and Industry (IXCRI 2010) held at Langkawi Island, Malaysia from 9th to 10th of June 2010 // edited by Zainal Arifin Ahmad [and six others]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Pubbl/distr/stampa      | Stafa-Zurich, Switzerland : , : Trans Tech Publications, , [2011]<br>©2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Descrizione fisica      | 1 online resource (215 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Collana                 | Advanced materials research, , 1662-8985 ; ; 173                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Altri autori (Persone)  | Zainal Arifin Ahmad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Disciplina              | 620.11272                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Soggetti                | X-rays<br>X-rays - Diffraction<br>Electronic books.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Note generali           | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nota di bibliografia    | Includes bibliographical references.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Nota di contenuto       | X-ray and Related Techniques; Preface; Committees; Table of Contents; Evaluation of Static Performance of Optoelectronic Semiconductor Devices under X-Rays Irradiation; Analysis of Mineralogical Component of Palm Oil Fuel Ash with or without Unburned Carbon; The Effect of Sintering Temperature on Crystal Structure and Microstructure of Pr <sub>0.67</sub> Ba <sub>0.33</sub> MnO <sub>3</sub> Ceramic; Effect of Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> Hybrid on the Fracture Toughness and Flexural Properties of PMMA Denture Base; Effect of Fractional Precipitation on Quality of Nanostructured Alumina Produced from Black Aluminium Dross Waste<br>Effect of Particle Sizes of Magnesium Oxide on Zirconia Toughened Alumina Vickers Hardness Development of a Simultaneous Elemental Analysis for Clay Minerals Using EDXRF; Structural Properties Studies of GaN on 6H-SiC by Means of X-Ray Diffraction Technique; Effects of Different Gloss Firing Temperature on the Crystallization of Zinc-Based Crystal Glaze; Hydrogenolysis of Glycerol to Propanediols over Nano-Ru/C Catalyst with Ionic Liquid Addition; Characterization of Porous Anodic Aluminium Oxide Film on Aluminium Templates Formed in Anodizing Process |

Effects of Calcination Temperature on the Phase Formation and Microstructure of Barium Zinc Tantalate; Phase Analysis of Mechanically Alloyed In Situ Copper-Tungsten Carbide Composite; Application of Small-Angle X-Ray Scattering to Predict Microfibril Angle in Acacia mangium Wood; X-Ray Powder Diffraction Study on the MgB<sub>2</sub> Superconductor Reacted with Nano-SiC: The Effects of Sintering Temperature; Heating Rate Effects on Properties of Powder Metallurgy Fe-Cr-Al<sub>2</sub>O<sub>3</sub> Composites; Growth of Cu-Zn<sub>5</sub> and Cu<sub>5</sub>Zn<sub>8</sub> Intermetallic Compounds in the Sn-9Zn/Cu Joint during Liquid State Aging Effect of La<sub>2</sub>O<sub>3</sub> Additions on Microstructure, Morphology and Pressure Sensing Behaviour of PZT Based Ceramics Sintered in Al<sub>2</sub>O<sub>3</sub> Environment; The Effect of Water Content on the Formation of TiO<sub>2</sub> Nanotubes in Ethylene Glycol; Characterization of Co-Cr-Mo (F-75) Alloy Produced by Solid State Sintering; Formation of Titanium Carbide Reinforced Copper Matrix Composite by In Situ Processing; Formation of TiC-Reinforced Iron Based Composite through Carbothermal Reduction of Hematite and Anatase; Stabilization of Magnetite Nano Iron Oxide with a Series of Novel Surfactants Characterization of Fluoro-Doped Tin Oxide Films Prepared by Newly Approached Inkjet Printing Methods Effect of Ruthenium Metal Precursors Supported on Bentonite in Hydrogenolysis Glycerol; New Silica Supported HClO<sub>4</sub> as Efficient Catalysts for Estolide Synthesis from Oleic Acid; Synthetic Hydrotalcite Prepared from Modified Combustion Method Using Glucose as Fuel; Effects of the Polyvinyl Alcohol (PVA) on the Synthesis of Alumina Fibers through Electrospinning Technique; Selective Oxidation of Glycerol over Titania Supported AuPd Bimetallic Catalysts Crystallite Size of Chitosan Capped Zinc Sulfide Nanoparticles Synthesized via Wet Chemical Route

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## Sommario/riassunto

The 36 peer-reviewed papers cover mainly topics on X-ray and related research. Review from Book News Inc.: Selected and peer-reviewed from a June 2010 international conference on Langkawi Island, Malaysia, 36 papers survey how x-ray and similar imaging technologies are being used in research and industry. The topics include analyzing the mineralogical component of palm oil fuel ash with or without unburned carbon, the effect of different gloss firing temperature on the crystallization of zinc-based crystal glaze, forming a titanium carbide reinforced copper matrix composite by an process, syn

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