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| 1. Record Nr.           | UNINA9910453332603321  |
| Titolo                  | Silk, protective clothing and eco-textiles : selected, peer reviewed papers from the 8th China International Silk Conference (ISC 2013), the 4th Asian Protective Clothing Conference (APCC 2013) and Eco-Friendly Textile Dyeing and Finishing Conference, September 8-10, 2013, Suzhou, China / / edited by Lun Bai and Guo-Qiang Chen   |
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| Descrizione fisica      | 1 online resource (667 p.)   |
| Collana                 | Advanced materials research ; ; 796  |
| Altri autori (Persone)  | BaiLun<br>ChenGuo-Qiang  |
| Disciplina              | 620.197  |
| Soggetti                | Silk<br>Textile fabrics - Environmental aspects<br>Electronic books.   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Description based upon print version of record.  |
| Nota di bibliografia    | Includes bibliographical references and index.   |
| Nota di contenuto       | Silk, Protective Clothing and Eco-Textiles; Preface; Table of Contents; Chapter 1: Mulberry and Silkworm; Chain Conformational Study on Underwater Silk Proteins from Caddisfly, <i>Stenopsyche marmorata</i> - Implication of a Fiber-Forming Mechanism; Preparation and Characterization of Biomimetic Mesoporous Bioactive Glass-Silk Fibroin Composite Scaffold for Bone Tissue Engineering; Generation of Polyclonal Antibody for <i>Bombyx mori</i> Pheromone-Binding Protein 1 (BmPBP1); Cultivation of Eri-Silkworm <i>Cordyceps militaris</i> and Determination of its Amino Acid Composition<br>Prediction of Genes Regulated by JAK-STAT Signal Pathway<br>The Succinate Dehydrogenase Genes of the Silkworm, <i>Bombyx mori</i> ; The Transcription Express Characteristics of Several Genes in the Process of <i>Bombyx mori</i> Ovarian Carcinoma; Growth of Hydroxyapatite Crystals on <i>Bombyx mori</i> ( <i>B. mori</i> ) Silk Fibroin; Cloning and Sequence Analysis of Hippo Pathway Related Major Genes of Silkworm ( <i>Bombyx mori</i> ); Analysis of Cocoon and Silk Quality of Trimolter Silkworms Induced by |

Anti-Juvenile Hormone; Analysis of Differential Expression Proteins from Different Parts of Pistillate Flower in Mulberry (*Morus alba*)  
Differential Expression of Stage-Specific Fat Body Proteins during Larval-Pupal Period in Silkworm (*Bombyx mori*)  
Expression, Purification and Preparation of Polyclonal Antibody of *Bombyx mori* Serpin-6;  
Chapter 2: Textile and Silk Materials Science, Properties; Observations of Skin Tissue Regenerations in Biomaterial Scaffolds with Different Biodegradability; Recombinant Cloning of Gene Sequence Encoding Silk Fibroin Heavy Chain; Fabrication and Characterization of Alginate Fibers by Wet-Spinning  
Preparation and Application of Low Molecular Weight Chitosan Nanoparticle as a Textile Finishing Agent  
Research on Anti-UV and Anti-Bacterial Properties of Multi-Functional Finishing on Silk Fabric with Nano-MgO; Synthesis of Monodisperse Rod-Like Nano- $\text{AlOOH}$  and Anti-Ultraviolet Finishing on Silk-Cotton Fabrics; Conformational Transition of Regenerated Spider Silk in Water; Study on Silk Fibroin D-Mannose Blend Films; Study on *Antheraea Pernyi* Silk Fibroin Microspheres Carried Drug; Preparation of Silk Fibroin/Pearl Powder Blend Films  
Effect of Glycerol on Structure and Properties of Silk Fibroin/Pearl Powder Blend Films  
Preparation and Characterization of pH-Responsive Poly(Vinyl-Alcohol)/Sodium Carboxymethylcellulose Nanofibers; Platelet Adhesion on the Silk Fibroin Material Surface; Research on the Magnetic Washing-Durability in the Surface of Fabric; The Influence of the Magnetic Fiber Content on Fabric Wearability; Research of Antibacterial Properties about Liquid Detergent on the Surface of the Silk Fabric; Study on Quality and Property of Fine-Denier Raw Silk; Study on Light Fastness of Natural Yellow Silk Fabric  
Research on the Dynamic-Elegance Property of Fabric

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### Sommario/riassunto

Silk has a long history and profound cultures. The modern science and technology has injected new vitality into the traditional silk. Meanwhile, the economic globalization has promoted the academic communication and collaborative development of the international textiles and silk industry. The book focus on sericulture bioengineering, fiber materials and textile products, process technology & system engineering of textile and clothing, eco-textile & dyeing and finishing technology, clothing science and technology & fashion, trade & culture of textile and clothing, protective clothing, history

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