Modeling and Simulation of Functional Nanomaterials for Forensic Investigation

Part of the Advances in Digital Crime, Forensics, and Cyber Terrorism Book Series

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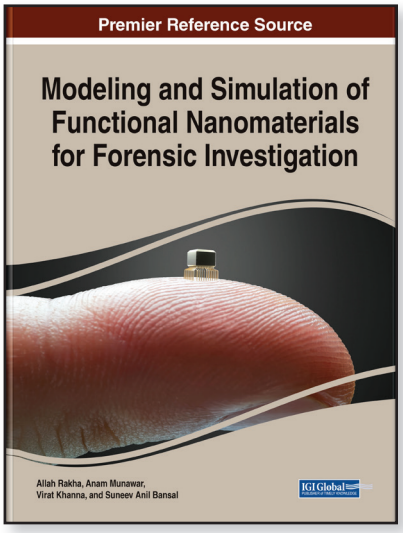

Description:

Nanotechnology continues to contribute to the progress of innovations in the area of forensic science ranging from sensing, DNA monitoring, and counterfeiting to fingerprinting. In recent years, functional nanomaterials are widely applied in nanoscience and forensic investigation. They can be used in future interdisciplinary research by scientists, engineers, and biotechnologists.

Modeling and Simulation of Functional Nanomaterials for Forensic Investigation focuses on multiple applications related to forensics and provides information linked with nanoparticles. This book provides nanotechnology results in improving the sensitivity of established forensic techniques. It further focuses on different fabrication and characterization techniques of nanomaterials and relates their characteristics with forensic applications. Covering topics such as explosive detection, nano-forensic testing, and nano-trackers, this premier reference source is a comprehensive resource for material engineers, chemical engineers, nanotechnologists, biotechnologists, forensic scientists, students and educators of higher education, researchers, and academicians.

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Topics Covered:

- Biomedical Engineering
- Conventional Techniques
- Explosive Detection
- Fluorescent Nanomaterials
- Functional Nanomaterials
- Illicit Drugs
- Nano-Forensic Testing
- Nano-Level Modeling
- Nano-Sensors
- Nano-Trackers

Subject: Security and Forensics

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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