

1. Record Nr.	UNINA9910830810903321
Titolo	Forensic analysis on the cutting edge [[electronic resource] ] : new methods for trace evidence analysis // Robert D. Blackledge, editor
Pubbl/distr/stampa	Hoboken, NJ, : J. Wiley & Sons, c2007
ISBN	1-280-93523-5 9786610935239 0-470-16693-2 0-470-16690-8
Descrizione fisica	1 online resource (490 p.)
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Disciplina	363.256 363.2562
Soggetti	Forensic sciences Criminal investigation
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	Forensic Analysis on the Cutting Edge; Contents; Preface; Foreword; Contributors; 1. All that Glitters Is Gold!; 1.1 What Is Glitter?; 1.2 The Ideal Contact Trace; 1.2.1 Nearly Invisible; 1.2.2 High Probability of Transfer and Retention; 1.2.3 Highly Individualistic; 1.2.4 Quickly and Easily Collected, Separated, and Concentrated; 1.2.5 Easily Characterized; 1.2.6 Computerized Database Capability; 1.3 Characterization Methods; 1.3.1 Color; 1.3.2 Morphology; 1.3.3 Shape; 1.3.4 Size; 1.3.5 Specific Gravity; 1.3.6 Thickness; 1.3.7 Cross Section; 1.3.8 Infrared Spectra 1.3.9 Raman Microspectroscopy1.3.10 Scanning Electron Microscopy/Energy Dispersive Spectroscopy; 1.4 Glitter as Evidence in Criminal Cases; References; 2. Forensic Analysis of Automotive Airbag Contact-Not Just a Bag of Hot Air; 2.1 History of Airbags; 2.2 How Do Airbags Work?; 2.3 Types of Forensic Evidence to Look for; 2.4 Airbag Case Reports and Examples; 2.5 Changes that Are Occurring; 2.6 Final Discussion; References; 3. Ink Analysis Using UV Laser Desorption Mass Spectrometry; 3.1 Introduction; 3.2 The Instrumentation; 3.3 The Analyte Target Molecules

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Sommario/riassunto

This title brings forensic scientists and chemists up-to-date on the latest instrumental methods for analysing trace evidence, including mass spectrometry, image analysis, DIOS-MS, ELISA characterization, statistical validation, and others. Illustrates comparative analysis of trace evidence by both old and new methods. Explains why some newer methods are superior to older, established methods. Includes chapters on analysis of DNA, ink, dyes, glitter, gun powder traces, condom trace evidence, footwear impressions, toolmark impressions, surveillance videos, glass particles, and dirt

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