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Titolo	Advances in MALDI and Laser-Induced Soft Ionization Mass Spectrometry / / edited by Rainer Cramer
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ISBN	3-319-04819-8
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (287 p.)
Disciplina	570
Soggetti	Proteins Mass spectrometry Industrial microbiology Biotechnology Protein Biochemistry Mass Spectrometry Industrial Microbiology
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	Employing 'second generation' matrices -- (MA)LDI MS mass spectrometry imaging at high specificity and sensitivity -- Techniques for fingerprint analysis using MALDI MS - a practical overview -- Whole/Intact Cell MALDI MS Biotyping in Mammalian Cell Analysis -- MALDI biotyping for microorganism identification in clinical microbiology -- Future applications of MALDI-TOF MS in microbiology -- MALDESI: Fundamentals, direct analysis, and MS imaging -- Microprobe MS Imaging of Live Tissues, Cells, and Bacterial Colonies using LAESI -- Efficient production of multiply charged MALDI ions -- Food Authentication by MALDI MS - MALDI-TOF MS Analysis of Fish Species -- Quantitative MALDI MS using Ionic Liquid Matrices -- Disease profiling by MALDI MS analysis of biofluids -- Ionic Liquids and other liquid matrices for sensitive MALDI MS analysis -- Coupling liquid MALDI MS to liquid chromatography.
Sommario/riassunto	This book covers the state-of-the-art of modern MALDI (matrix-assisted laser desorption/ionization) and its applications. New

applications and improvements in the MALDI field such as biotyping, clinical diagnosis, forensic imaging, and ESI-like ion production are covered in detail. Additional topics include MS imaging, biotyping/speciation; large-scale, high-speed MS sample profiling; new methods based on MALDI or MALDI-like sample preparations; and the advantages of MALDI MS analysis over ESI (electrospray ionization). This is an ideal book for graduate students and researchers in the field of bioanalytical sciences. This book also:

- Showcases new techniques and applications in MALDI MS
- Demonstrates how MALDI is preferable to ESI
- Illustrates the pros and cons associated with biomarker discovery studies in clinical proteomics and various application areas, such as cancer proteomics.
