1. Record Nr. UNINA9910502658203321

Autore	Sun Nianrong
Titolo	Applications of Nanomaterials in Proteomics / / by Nianrong Sun, Chunhui Deng, Xizhong Shen
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021
ISBN	981-16-5816-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (431 pages)
Collana	Nanostructure Science and Technology, , 2197-7976
Disciplina	620.115
Soggetti	Proteins Biomaterials Nanotechnology Nanochemistry Analytical chemistry Materials Chemistry Biomaterials-Proteins Nanoengineering Analytical Chemistry Materials Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	An overview of proteomics and related nanomaterials -- Synthesis and characterization of nanomaterials -- Application of nanomaterials to separation of low-abundance proteins -- Application of nanomaterials to separation of phosphorylated proteins -- Application of nanomaterials to separation of glycosylated proteins -- Simultaneous application of nanomaterials to separation of phospho- and glyco-proteins -- Application of nanomaterials to separation of endogenous peptides.
Sommario/riassunto	This book provides a comprehensive and systematic overview of the latest advances in nanomaterials for proteomics, both theoretical and practical. Consisting of seven chapters, it first covers the synthesis methods, characterization, principles, and performance of functional

nanomaterials in various branches of proteomics in detail. This is followed by the applications of nanomaterials for the separation and analysis of various proteins and peptides. Given its scope, the book appeals to a broad readership, including those active in proteomics and materials science; it can also serve as a reference book for students majoring in proteomics analysis. .