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Titolo	Modern MoÌssbauer spectroscopy : new challenges based on cutting-edge techniques / / Yutaka Yoshida, Guido Langouche, editors
Pubbl/distr/stampa	Singapore : , : Springer, , [2021] Â©2021
ISBN	981-15-9422-8
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XV, 523 p. 319 illus., 253 illus. in color.)
Collana	Topics in Applied Physics, , 0303-4216 ; ; 137
Disciplina	621.381
Soggetti	Electronics - Materials Spectrum analysis - Statistical methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Historical Developments and Future Perspectives in Nuclear Resonance Scattering -- Synchrotron-Radiation-Based Mössbauer Spectroscopy and Nuclear Resonant Quasi- and Inelastic-Scattering -- Quantum Optical Phenomena in Nuclear Resonant Scattering -- From Small Molecules to Complex Systems: A Survey of Chemical and Biological Applications of the Mössbauer Effect -- Mössbauer Spectroscopy with High Spatial Resolution -- Molecular Magnetism of Metal Complexes and Light-Induced Phase Transitions -- Applications of Mössbauer Spectroscopy for Li-Ion and Na-Ion Batteries -- Mössbauer Spectroscopy in External Magnetic Fields -- Mössbauer Spectroscopic Microscope Studies on Diffusion in Solids.
Sommario/riassunto	This book presents an overview of the latest Mössbauer spectroscopy research. It sheds light on various cutting-edge research subjects: (i) nuclear resonance scattering experiments implemented at synchrotron radiation facilities, e.g., ESRF, DESY and Spring-8; (ii) multidisciplinary materials research related to chemistry, biology, geoscience, molecular magnetism of metal complexes, batteries, and magnetism; (iii) novel imaging techniques based on probing diffusion in solids using Mössbauer spectroscopy. The first three chapters introduce recent research on modern Mössbauer spectroscopy, including nuclear resonant scattering experiments and development of related techniques at synchrotron accelerator facilities. Chapters 4 and 5 then

	demonstrate the applications of such pioneering techniques to chemistry, biology and geoscience. Chapters 6 and 7 describe the applications to new functional materials, i.e., metal complexes and Li- and Na-ion batteries, while the final two chapters are devoted to two important measuring techniques: Mössbauer spectroscopy under external magnetic fields, and microscopic Mössbauer techniques on diffusion in solids, which are expected to play an essential role in the investigation and characterization of magnetic structures and microstructures in materials. The cutting-edge content provides readers with quick updates on the latest research topics in the field, while the tutorial-style descriptions allow readers unfamiliar with Mössbauer spectroscopy to learn and implement the techniques. As such, the book is especially useful for advanced undergraduate and early graduate students who have recently been assigned to a laboratory.

2. Record Nr. UNINA9910143530703321

Titolo	EMC Neurologie
Pubbl/distr/stampa	[Paris], : [Editions scientifique et medicales Elsevier SAS], 2004-2005
ISSN	1778-6959
Descrizione fisica	1 online resource
Soggetti	Neurology Nervous system - Diseases Nervous system - Surgery Maladie neurologique Neurologie Periodicals. Periodique electronique (Descripteur de forme) Ressource Internet (Descripteur de forme)
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed Title from journal homepage (ScienceDirect, viewed July 6, 2004).

	"An 'Encyclopedie Medico-Chirurgicale' publication"--Publisher information page.
Sommario/riassunto	"The journal covers all clinical aspects of neurology and neurosurgery and the related neurosciences such as neuropathology, neuroradiology, neur-ophthalmology and neurophysiology"--Publisher information page (Elsevier, viewed July 6, 2004).