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Titolo	Advancing Methods for Biomolecular Crystallography // edited by Randy Read, Alexandre G. Urzhumtsev, Vladimir Y. Lunin
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2013
ISBN	94-007-6232-1
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (XIII, 362 p. 131 illus.)
Collana	NATO Science for Peace and Security Series A: Chemistry and Biology, , 1874-6527
Disciplina	548
Soggetti	Spectrum analysis Proteins Crystallography Chemistry, Organic Spectroscopy Crystallography and Scattering Methods Organic Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Part I Solution Chemistry -- Simple Alkoxide Based Precursor Systems -- Carboxylate Based Precursor Systems -- Mixed Metallo-Organic Precursor Systems -- Single Source Precursor Approach -Hydrolysis Mechanisms in Organic Media -- Aqueous Precursor Systems -- Polymer-Assisted Deposition (PAD) -- Part II Analytical Methods -- Thermal Analysis -- X-ray Absorption Spectroscopy -- Infrared Spectroscopy -- Part III Deposition Techniques -- Dip Coating -- Spin Coating: Art and Science -- Aerosol Deposition -- Inkjet Printing and Other Direct Writing Methods -- Chemical Bath Deposition -- Part IV Processing and Crystallization.- Thermodynamics and Heating Processes -- Epitaxial Films -- Orientation and Microstructure Design -- Low-Temperature Processing -- Composite Film Processing -- UV and E-Beam Direct Patterning of Photosensitive CSD Films -- Template Controlled Growth -- Part V Functions and Applications -- Thin Film Multilayer Capacitors -- Base Metal Bottom Electrodes -- Polar Oxide Thin Films for MEMS Applications -- Conducting oxide thin films --

Transparent Conducting Oxides.- Superconducting Films --
Antireflective Coatings and Optical Filters -- Luminescent Thin Films:
Fundamental Aspects and Practical Applications -- Appendix –
Syntheses.

Sommario/riassunto

This work presents a snapshot of the state of the art of modern biomolecular crystallography, from crystallisation through structure determination and even interactive presentation on the web. Methods driving the latest automated structure determination pipelines are explained, as well as how to deal with problems such as crystal pathologies that still demand expert analysis. These methods are illustrated through their application to problems of great biological interest, such as the molecular machinery underlying the complement pathway, the mechanism of action of monoamine oxidase inhibitors, and the structure of the eukaryotic ribosome. Complementary approaches, such as neutron diffraction, small angle X-ray scattering, coherent diffraction and computational modelling, are also explored.

2. Record Nr.	UNINA9910134093303321
Titolo	Journal for specialists in pediatric nursing : JSPN
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ISSN	1744-6155
Disciplina	610.7362
Soggetti	Pediatric nursing Nursing Pediatrics Maternity nursing Pediatric Nursing Obstetric Nursing Maternal-Child Nursing Soins infirmiers en pediatrie Soins infirmiers Pediatrie Soins infirmiers en obstetrique Soins infirmiers mere-enfant nursing (health science) Evidence Based Nursing

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