

1. Record Nr.	UNINA9910454071803321
Titolo	Applications of reference materials in analytical chemistry [[electronic resource] /] / Peter Roper ... [et al.]
Pubbl/distr/stampa	Cambridge, : published for Laboratory of the Government Chemist by the Royal Society of Chemistry, c2001
ISBN	1-84755-938-7
Descrizione fisica	1 online resource (162 p.)
Collana	RSC biomolecular sciences
Altri autori (Persone)	RoperPeter <1947->
Disciplina	543
Soggetti	Chemistry, Analytic - Quality control Chemical laboratories - Quality control Electronic books.
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	BK0854044485-FX001; BK9780854044481-FP001; BK9780854044481-FP005; BK9780854044481-FP007; BK9780854044481-00001; BK9780854044481-00008; BK9780854044481-00015; BK9780854044481-00041; BK9780854044481-00085; BK9780854044481-00106; BK9780854044481-00131; BK9780854044481-00136; BK9780854044481-00143
Sommario/riassunto	Reference materials play an important role in analytical chemistry, where they are used by analysts for a variety of purposes, including: checking and calibrating instruments; validating methods and estimating the uncertainty of analytical measurements; checking laboratory and analyst performance; and internal quality control. This book provides guidance and information for the users of certified reference materials (CRMs), explaining how they can best be used to achieve valid analytical measurements and improve quality in the analytical laboratory. General information on CRMs and how they are

2. Record Nr.	UNINA9910557406703321
Autore	Matsakas Leonidas
Titolo	Biochemical and Thermochemical Conversion Processes of Lignocellulosic Biomass Fractionated Streams
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (244 p.)
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Moving towards a sustainable and green economy requires the use of renewable resources for the production of fuels, chemicals, and materials. In such a scenario, the use of lignocellulosic biomass and waste streams plays an important role, as it consists of abundant renewable resources. The complex nature of lignocellulosic biomass dictates the use of a pretreatment process prior to any further processing. Traditional methods of biomass pretreatment fail to recover cellulose, hemicellulose, and lignin in clean streams. It has been recognized that the efficient use of all the main fractions of lignocellulosic biomass (cellulose, hemicellulose, and lignin) is an important step towards a financially sustainable biomass biorefinery. In this context, switching from biomass pretreatment to biomass fractionation can offer a sustainable solution to recover relatively clean streams of cellulose, hemicellulose, and lignin. This Special issue aims at exploring the most advanced solutions in biomass and waste pretreatment and fractionation techniques, together with novel (thermo)chemical and biochemical processes for the conversion of fractionated cellulose, hemicellulose and lignin to bioenergy, bio-based chemicals, and biomaterials, including the application of such products (i.e., use of biochar for filtration and metallurgical processes), as well as recent developments in kinetic, thermodynamic, and numeric modeling of conversion processes. The scope of this Special Issue will</p>

also cover progress in advanced measuring methods and techniques used in the characterization of biomass, waste, and products.

3. Record Nr.	UNINA9910760498603321
Autore	Egli Dennis
Titolo	Applied Crop Physiology : Understanding the Fundamentals of Grain Crop Management // Dennis B. Egli University of Kentucky USA
Pubbl/distr/stampa	Oxford : , : CAB International, , 2021 ©2021
ISBN	9781789245967 1789245966 9781789245974 1789245974
Edizione	[1st ed.]
Descrizione fisica	1 recurs en línia (188 pàgines)
Disciplina	631.5/82
Soggetti	Conreus Fisiologia vegetal Llibres electrònics.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Half Title -- Title -- Copyright -- Contents -- Preface -- Acknowledgements -- 1 Introduction -- Crop Management - The Foundation of Production Agriculture -- Seeds Feed the World -- A Brief History of Crop Productivity -- Crop Management and Yield -- Purpose -- 2 Basic Plant Growth Processes -- Introduction -- Photosynthesis -- C3 and C4 photosynthesis -- Photosynthesis and the environment -- Solar radiation -- Carbon dioxide -- Temperature -- Respiration -- Leaf Senescence -- Seed Growth -- Growth of individual seeds -- Seed growth in crop communities -- Rate and duration of seed growth -- Physiological maturity -- Soybean -- Maize -- Other crops -- Water -- Evapotranspiration (ET) -- Reference or potential evapotranspiration (ET0) -- Measurement of evapotranspiration -- Water availability -- Precipitation -- Infiltration -- Soil water storage --

Summary -- 3 Growth of Crop Communities and the Production of Yield -- Introduction -- Growth Staging Schemes -- Growth of Crop Communities -- Murata's Stage I - vegetative growth -- Reproductive growth -- Yield components -- Murata's Stage II - seeds per unit area (sink size) -- Murata's Stage III - seed filling and seed size -- Radiation-Use Efficiency (RUE) -- Harvest Index (HI) -- Time and Crop Productivity -- Summary -- 4 Crop Management: Principles and Practices -- Introduction -- Planting-Seed Quality -- Variety Selection -- Plant Population -- Planting Date -- Row Spacing -- Summary -- 5 Crop Production in the Future - Challenges and Opportunities -- Introduction -- Climate Change -- Molecular Biology, GMOs and Variety Improvement -- Precision Agriculture/Big Data -- New Crops -- New Approaches to Agriculture -- The Search for the Silver Bullet - A Futile Quest? -- Summary -- General Summary -- Appendix -- Table A1. Conversion table.
Table A2. Scientific and common names of all plant species mentioned in the text -- References -- Index -- Cabi -- Back.

Sommario/riassunto

This book describes the fundamental processes involved in the accumulation of biomass and the production of grain yield by agronomic crops and discusses how these processes underlie and influence management decisions.
