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Autore	Pitie, Jean
Titolo	GEOGRAPHIE DE LA POPULATION MONDIALE
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2. Record Nr.	UNINA9910458396403321
Autore	Landes Richard
Titolo	The Apocalyptic Year 1000 [[electronic resource]] : Religious Expectaton and Social Change, 950-1050
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Altri autori (Persone)	GowAndrew MeterDavid Van
Disciplina	940.146
Soggetti	Christianity and culture History of doctrines One thousand, A.D Second Advent Second Advent - History of doctrines - Middle Ages, 600-1500 - Congresses Second Advent - History of doctrines - Middle Ages, 600-1500 - Europe Religion Philosophy & Religion Christianity Electronic books.

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Nota di contenuto	Contents; Abbreviations; Introduction: The Terribles espoirs of 1000 and the Tacit Fears of 2000; 1. Awaiting the End of Time around the Turn of the Year 1000; I. The Apocalyptic Year 1000 in Medieval Thought; II. The Apocalyptic Year 1000 in Medieval Art and Literature; III. Historiography of the Apocalyptic Year 1000; IV. Tools and Sources; Index
Sommario/riassunto	The essays in this volume challenge prevailing views on the way in which apocalyptic concerns contributed to larger processes of social change at the first millennium. They should provoke new interest in and debate on the nature and causes of social change in early medieval Europe.

3. Record Nr.	UNINA9910820509303321
Autore	Calvo-Flores Francisco G.
Titolo	Lignin and lignans as renewable raw materials : chemistry, technology and applications // Francisco G. Calvo-Flores, Jose A. Dobado, Joaquin I. Garcia and Francisco J. Martin-Martinez
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Descrizione fisica	1 online resource (521 p.)
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Cover; Title Page; Copyright; Dedication; Contents; Series Preface; Preface; List of Acronyms; List of Symbols; Part I Introduction; Chapter 1 Background and Overview; 1.1 Introduction; 1.2 Lignin: Economical Aspects and Sustainability; 1.3 Structure of the Book; References; Part II What is Lignin?; Chapter 2 Structure and Physicochemical Properties; 2.1 Introduction; 2.2 Monolignols, The Basis of a Complex Architecture; 2.3 Chemical Classification of Lignins; 2.4 Lignin Linkages; 2.5 Structural Models of Native Lignin; 2.5.1 Softwood Models; 2.5.2 Hardwood Models; 2.5.3 Herbaceous Plant Models; 2.6 Lignin-Carbohydrate Complex; 2.7 Physical and Chemical Properties of Lignins; 2.7.1 Molecular Weight; 2.7.2 Dispersity Index (); 2.7.3 Thermal Properties; 2.7.4 Solubility Properties; References; Chapter 3 Detection and Determination; 3.1 Introduction; 3.2 The Detection of Lignin (Color-Forming Reactions); 3.2.1 Reagents for Detecting Lignins; 3.3 Determination of Lignin; 3.4 Direct Methods for the Determination of Lignin; 3.4.1 Methods for Lignin as a Residue; 3.4.2 Lignin in Solution Methods; 3.5 Indirect Methods for the Determination of Lignin; 3.5.1 Chemical Methods; 3.5.2 Spectrophotometric Methods; 3.5.3 Methods Based on Oxidant Consumption; 3.6 Comparison of the Different Determination Methods; References; Chapter 4 Biosynthesis of Lignin; 4.1 Introduction; 4.2 The Biological Function of Lignins; 4.3 The Shikimic Acid Pathway; 4.4 The Common Phenylpropanoid Pathway; 4.5 The Biosynthesis of Lignin Precursors (the Monolignol-Specific Pathway); 4.5.1 The Biosynthesis of Other Monolignols; 4.5.2 The Transport of Monolignols; 4.6 The Dehydrogenation of the Precursors; 4.7 Peroxidases and Laccases; 4.8 The Radical Polymerization; 4.8.1 Dimerization; 4.8.2 Quinone Methides; 4.8.3 Lignification; 4.8.4 Interunit Linkage Types; 4.8.5 Dehydrogenation Polymer (DHP); 4.9 The Lignin-Carbohydrate Connectivity; 4.10 Location of Lignins (Cell Wall Lignification); 4.11 Differences Between Angiosperm and Gymnosperm Lignins; References; Part III Sources and Characterization of Lignin; Chapter 5 Isolation of Lignins; 5.1 Introduction; 5.2 Methods for Lignin Isolation from Wood and Grass for Laboratory Purposes; 5.2.1 Lignin as Residue; 5.2.2 Lignin by Dissolution; 5.3 Commercial Lignins; 5.3.1 Kraft Lignin; 5.3.2 Sulfite Lignin (Lignosulfonate Process); 5.3.3 Soda Lignin (Alkali Lignin); 5.3.4 Organosolv Pulping; 5.3.5 Other Methods of Separation of Lignin from Biomass; References; Chapter 6 Functional and Spectroscopic Characterization of Lignins; 6.1 Introduction; 6.2 Elemental Analysis and Empirical Formula; 6.3 Determination of Molecular Weight; 6.3.1 Gel-Permeation Chromatography (GPC); 6.3.2 Light Scattering; 6.3.3 Vapor-Pressure Osmometry (VPO); 6.3.4 Ultrafiltration (UF); 6.4 Functional Group Analyses; 6.4.1 Methoxyl Group (MeO); 6.4.2 Phenolic Hydroxyl Group (OH ph); 6.4.3 Total and Aliphatic Hydroxyl Groups (R-OH)

As naturally occurring and abundant sources of non-fossil carbon, lignin and lignans offer exciting possibilities as a source of commercially valuable products, moving away from petrochemical-based feedstocks in favour of renewable raw materials. Lignin can be used directly in fields such as agriculture, livestock, soil rehabilitation, bioremediation and the polymer industry, or it can be chemically modified for the fabrication of specialty and high-value chemicals such as resins, adhesives, fuels and greases. Lignin and Lignans as Renewable Raw Materials presents a multidisciplinary overview