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| 1. Record Nr.          | UNINA9911100292903321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Autore                 | Chamon Marcos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Titolo                 | Economic Transformation, Population Growth, and the Long-Run World<br>Income Distribution / / Marcos Chamon, Michael Kremer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pubbl/distr/stampa     | Washington, D.C. : , : International Monetary Fund, , 2006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ISBN                   | 9786613824684<br>9781462356881<br>1462356885<br>9781452723921<br>1452723923<br>9781283512237<br>1283512238<br>9781451908176<br>1451908172                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Edizione               | [1st ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Descrizione fisica     | 1 online resource (21 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Collana                | IMF Working Papers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Altri autori (Persone) | KremerMichael                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Soggetti               | Economic geography - Econometric models<br>Demographic change<br>Demographic Economics: General<br>Demographic transition<br>Demographic Trends, Macroeconomic Effects, and Forecasts<br>Demography<br>Economic Growth of Open Economies<br>Emigration and Immigration<br>Emigration and immigration<br>Income<br>International Migration<br>Macroeconomics<br>Migration<br>Migration, immigration & emigration<br>National accounts<br>One, Two, and Multisector Growth Models<br>Personal income<br>Personal Income, Wealth, and Their Distributions<br>Population & demography<br>Population & migration geography<br>Population and demographics<br>Population growth |

Population  
Developing countries Commerce Econometric models  
China, People's Republic of

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| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Note generali           | "January 2006."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nota di bibliografia    | Includes bibliographical references.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Nota di contenuto       | ""Contents""; ""I. INTRODUCTION""; ""II. THE MODEL""; ""A. Evolution of the World Population""; ""B. Differences Across Countries""; ""III. A SIMPLE CALIBRATION""; ""IV. CONCLUSION""                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sommario/riassunto      | <p>This paper considers the long-run evolution of the world economy in a model where countries' opportunities to develop depend on their trade with advanced economies. As developing countries become advanced, they further improve trade opportunities for the remaining developing countries. Whether or not the world economy converges to widespread prosperity depends on the population growth differential between developing and advanced economies, the rate at which countries develop, and potentially on initial conditions. A calibration using historical data suggests that the long-run prospects for lagging developing regions, such as Africa, likely hinge on the sufficiently rapid development of China and India.</p> |

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| 2. Record Nr.           | UNINA9911154397603321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Titolo                  | X-ray photoelectron spectroscopy // Johanna M. Wagner, editor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| ISBN                    | 1-61728-240-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Edizione                | [1st ed.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Descrizione fisica      | 1 online resource (290 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Collana                 | Chemical engineering methods and technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Altri autori (Persone)  | WagnerJohanna M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Disciplina              | 543/.62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Soggetti                | X-ray photoelectron spectroscopy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| 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       | <p>""X-RAY PHOTOELECTRON SPECTROSCOPY""; ""X-RAY PHOTOELECTRON SPECTROSCOPY""; ""LIBRARY OF CONGRESS CATALOGING-IN-PUBLICATION DATA""; ""CONTENTS ""; ""PREFACE ""; ""Chapter 1: X-RAY PHOTOELECTRON SPECTROSCOPY: STUDIES FROM INDUSTRIAL &amp; BIOACTIVE GLASS TO BIOMATERIALS""; ""ABSTRACT ""; ""1. X-RAY PHOTOELECTRON SPECTROSCOPY: CONCEPT AND PRINCIPLES""; ""2. RELATING GLASS TO XPS ""; ""3. SILICATE GLASS CORROSION ""; ""4. APPLICATION OF XPS TO GLASS CORROSION""; ""5. XPS ROLE IN GLASS FABRICATION ""; ""6. EVOLUTION OF BIOACTIVE GLASSES ""; ""7. GLASS BASED BIOMATERIALS: GLASS IONOMER CEMENTS ""</p> <p>""REFERENCES """"Chapter 2: XPS FOR INVESTIGATING CULTURAL HERITAGE MATERIALS""; ""ABSTRACT ""; ""1. INTRODUCTION ""; ""2. PIGMENTS IDENTIFICATION AND ALTERATION IN PAINT LAYERS""; ""2.1. The Case of Copper Resinate ""; ""2.2. The Case of Smalt""; ""3. STONE ""; ""3.1. The Case of Michealgelo's David ""; ""4. GLASS ""; ""5. SURFACE MODIFICATIONS INDUCED BY CLEANING AND PROTECTIVE TREATMENTS ""; ""6. BRONZE ""; ""REFERENCES ""; ""Chapter 3: X-RAY PHOTOELECTRON SPECTROSCOPY APPLIED TO ATOMIC STRUCTURE ANALYSIS OF SILICATE GLASSES THIN LAYERS ""; ""ABSTRACT ""; ""INTRODUCTION""</p> <p>""EXPERIMENTAL """"SILICA STRUCTURE ""; ""STRUCTURE OF SILICA FILMS PRODUCED BY CATHODE SPRAY DEPOSITION OF SILICON IN OXYGEN MEDIUM""; ""STRUCTURE OF SOL-GEL SILICA FILMS""; ""STRUCTURE OF LEAD-SILICATE GLASSES ""; ""THE SECONDARY-ELECTRON EMISSION COEFFICIENTS OF LEAD SILICATE GLASSES ""; ""CONCLUSION "";</p> |

""REFERENCES ""; ""Chapter 4: INFLUENCE OF NO<sub>2</sub> ON ATMOSPHERIC CORROSION OF ZINC EXPOSED IN A CLIMATE CHAMBER ""; ""ABSTRACT ""; ""INTRODUCTION ""; ""EXPERIMENTAL PROCEDURE ""; ""ZINC SAMPLES WITHOUT EXPOSURE ""; ""EXPOSITION AT 35A°C ""; ""EXPOSITION AT 25A°C ""

""INFLUENCE OF ION SPUTTERING ON THE S2P PHOTOELECTRON PEAK FOR ZINC-SULFUR CORROSION PRODUCTS """"CONCLUSION "";

""REFERENCES ""; ""Chapter 5: X-RAY PHOTOELECTRON SPECTROSCOPY AS A TOOL IN THE STUDY OF NANOSTRUCTURED TITANIUM AND COMMERCIAL PET SURFACES IN BIOTECHNOLOGICAL APPLICATIONS "";

""ABSTRACT ""; ""1. XPS AND BIOTECHNOLOGY ""; ""2. CASE STUDY 1 TITANIUM OXIDATION STATES ON TITANIUM THIN FILMS AND BULK SURFACES ""; ""2.1. Experimental Design ""; ""2.2. Elemental Analysis ""; ""2.3. Titanium Oxidation States ""; ""2.4. Carbon Contamination ""; ""2.5. Conclusions ""

""3. CASE STUDY 2 BACTERIAL MODIFICATION OF POLY(ETHYLENE TEREPHTHALATE) POLYMER SURFACES""""3.1. Experimental Design ""; ""3.2. Elemental Analysis ""; ""3.3. High-Resolution Spectra ""; ""3.4. Bacterial Modifications ""; ""3.5. Carbon Contamination ""; ""3.6. Conclusions ""; ""4. SUMMARY ""; ""5. REFERENCES ""; ""Chapter 6: XPS AS A POWERFUL TOOL TO INVESTIGATE THE SURFACE PROPERTIES OF SIMPLE, DOPED AND MIXED METAL OXIDES ""; ""ABSTRACT ""; ""ABBREVIATIONS AND ACRONYMS ""; ""GENERAL REMARKS ""; ""1. Metal oxides: a general overview ""; ""1.1. General remarks on metal oxides ""

""1.2 Importance of surface in metal oxides ""

## Sommario/riassunto

X-ray photoelectron spectroscopy (XPS) is a quantitative spectroscopic technique that measures the elemental composition, empirical formula, chemical state and electronic state of the elements that exist within a material. XPS spectra are obtained by irradiating a material with a beam of X-rays while simultaneously measuring the kinetic energy (KE) and number of electrons that escape from the top 1 to 10 nm of the material being analyzed. This book reviews research in the field of X-ray photoelectron spectroscopy including: XPS studies from industrial and bioactive glass to biomaterials and