

1. Record Nr.	UNINA9910141367803321
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Titolo	Atmospheric pressure plasma for surface modification [[electronic resource] /] / Rory A. Wolf
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, 2013
ISBN	1-118-54755-1 1-118-54751-9 1-283-83524-X 1-118-54769-1
Descrizione fisica	1 online resource (260 p.)
Classificazione	TEC009060
Disciplina	621.044
Soggetti	Low temperature plasmas - Industrial applications Surfaces (Technology)
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	Machine generated contents note: Preface xi 1. Plasma - The Fourth State of Matter 1 1.1 Fundamentals of Plasmas 1 1.2 Thermal vs. Nonthermal Plasmas 6 1.3 Mechanisms for Surfaces Reactions 22 2. Plasmas for Surface Modification 27 2.1 Low-Pressure Plasmas 28 2.2 Microwave Systems 31 2.3 Physical Vapor Deposition Systems 33 2.4 Atmospheric Plasma Systems 42 2.5 Atmospheric Plasma Precursor Deposition Systems 51 3. Atmospheric Plasma Surface Modification Effects 55 3.1 Surface Cleaning 56 3.2 Surface Etching 63 3.3 Surface Functionalization 66 3.4 Grafting and Surface Polymerization Effects 75 4. Characterization Methods of Atmospheric Plasma Surface Modifications 81 4.1 Surface Characterization Techniques 81 4.2 X-Ray Photoelectron Spectroscopy (XPS) 82 4.3 Static Secondary Ion Mass Spectrometry by Time-of-Flight (TOF-SIMS) 86 4.4 Atomic Force Microscopy 89 4.5 Scanning Electron Microscopy (TEM) 97 4.7 Visual Methodologies 98 5. Atmospheric Plasma Modification of Roll-to-Roll Polymeric Surfaces 109 5.1 Material Classifications and Applications 110 5.2 Atmospheric Plasma Processing Surface Effects 116 5.3 Assessments of Surface Modification Effects 117 6. Atmospheric Plasma Modification of Three-Dimensional Polymeric Surfaces 121 6.1 Material

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Sommario/riassunto

"This Book's focus and intent is to impart an understanding of the practical application of atmospheric plasma for the advancement of a wide range of current and emerging technologies. The primary key feature of this book is the introduction of over thirteen years of practical experimental evidence of successful surface modifications by atmospheric plasma methods. It offers a handbook-based approach for leveraging and optimizing atmospheric plasma technologies which are currently in commercial use. It also offers a complete treatment of both basic plasma physics and industrial plasma processing with the intention of becoming a primary reference for students and professionals. The reader will learn the mechanisms which control and operate atmospheric plasma technologies and how these technologies can be leveraged to develop in-line continuous processing of a wide variety of substrates. Readers will gain an understanding of specific surface modification effects by atmospheric plasmas, and how to best characterize those modifications to optimize surface cleaning and functionalization for adhesion promotion. The book also features a series of chapters written to address practical surface modification effects of atmospheric plasmas within specific application markets, and a commercially-focused assessment of those effects"--

2. Record Nr.	UNIORUON00070196
Autore	LANGE, Claudio
Titolo	Moderne arabische Literatur / Claudio Lange, Hans Schiler
Pubbl/distr/stampa	Berlin, : Das Arabische Buch, 1988
ISBN	39-234-4640-3
Descrizione fisica	277 p. : ill. ; 23 cm
Altri autori (Persone)	SCHILER, Hans
Disciplina	892.709006
Soggetti	Letteratura araba - Critica
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia