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Nota di contenuto	Plasma Processes and Polymers; Contents; Preface; List of Contributors; Part I Plasma Deposition of Thin Films; 1 Polymer Surface Modification with Monofunctional Groups of Different Type and Density; 1.1 Introduction; 1.2 Experimental; 1.3 Results; 1.3.1 Kinetics of the Deposition of Copolymers; 1.3.2 Variation of the Density of Functional Groups; 1.3.3 Structure and Stability of Copolymers; 1.3.4 Relation between Functional Groups of Copolymers and Surface Energy; 1.3.5 Relation between Functional Groups of Copolymers and Adhesion; 1.4 Discussion 2RF-Plasma Deposition of SiO(x) and a-C:H as Barrier Coatings on Polymers2.1 Introduction; 2.2 Experimental; 2.3 Results and Discussion; 2.4 Conclusions; 3 Upscaling of Plasma Processes for Carboxyl Functionalization; 3.1 Introduction; 3.2 Experimental; 3.2.1 Materials; 3.2.2 Plasma-Deposition Apparatus; 3.2.3 Characterization Techniques; 3.3 Results and Discussion; 3.4 Conclusions; 4 Deposition of Fluorocarbon Films on Al and SiO(2) Surfaces in High-Density Fluorocarbon Plasmas: Selectivity and Surface Wettability; 4.1

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Sommario/riassunto

This volume compiles essential contributions to the most innovative fields of Plasma Processes and Polymers. High-quality contributions cover the fields of plasma deposition, plasma treatment of polymers and other organic compounds, plasma processes under partial vacuum and at atmospheric pressure, biomedical, textile, automotive, and optical applications as well as surface treatment of bulk materials, clusters, particles and powders. This unique collection of refereed papers is based on the best contributions presented at the 16th International Symposium on Plasma Chemistry in Taormina, I