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""2.2 Impact of Radiation on Polymers""""""2.2.1 Non-ionizing Versus Ionizing Radiation""; ""2.2.2 Differences and Similarities of Photons and Particle Beams""; ""2.2.3 Implications for Shadow Masks""; ""2.3 Radiation Grafting Using Photons""; ""2.3.1 Visible Light and UV Radiation""; ""Lasers as Light Sources""; ""2.3.2 Structures Via Extreme UV Lithography""; ""EUV Interference Exposures""; ""Growth of Polymer Brushes""; ""Structure Formation""; ""2.3.3 Photons in the keV Range""; ""2.3.4 Gamma Radiation""; ""2.4 Radiation Grafting Using Electrons""
""2.4.1 Structures Via Electron Beam Lithography""""""2.4.2 Absorption Mask Techniques Using Low-Energy Electron Beams""; ""2.4.3 High-Energy Electrons""; ""2.5 Radiation Grafting Using Particle Beams""; ""2.5.1 Plasma Activation""; ""2.5.2 Accelerated Ions""; ""2.5.3 Swift Heavy Ions""; ""2.6 Conclusions""; ""References""; ""3 Initiator Immobilization Strategies for Structured Brushes""; ""3.1 General Initiator Patterning Strategies""; ""3.2 Patterning Strategies for Atom Transfer Radical Polymerization""; ""3.2.1 Initiator Immobilization and Patterning on Silicon Substrates""
""3.2.2 Polymers with Functional Groups for Initiator Immobilization""""""3.2.3 Initiator Immobilization on Inert Polymer Substrates""; ""3.3 Patterning Strategies for Reversible Addition Fragmentation Transfer Polymerization""; ""3.3.1 Site-Selective Polymerization Using a Light-Sensitive Initiator (Photoiniferter)""; ""3.3.2 Selective Polymerization Using Substrates Containing a Light-Sensitive Initiator""; ""3.4 Patterning Strategies Using Benzophenone Chemistry""; ""3.5 Conclusions""; ""References""; ""4 Functional Polymer-on-Polymer Structures""
""4.1 Grafting Functional Monomers Versus Post-Polymerization Modification""""""4.2 Responsive Structures""; ""4.2.1 Responsiveness to Changes in pH""; ""4.2.2 Responsiveness to Temperature Changes""; ""4.2.3 Magneto-responsiveness""; ""4.2.4 Responsiveness Based on Counterion Exchange""; ""4.2.5 Light Responsiveness""; ""4.3 Biofunctional Structures""; ""4.4 Conclusions""; ""References""; ""5 Characterization Challenges of Micro- and Nanografted Polymer Systems""; ""5.1 Introduction""; ""5.2 Spectroscopic Methods""; ""5.2.1 Infrared Spectroscopy""; ""5.2.2 Ultraviolet/Visual Spectroscopy""
""5.2.3 Fluorescence Spectroscopy""

Sommario/riassunto

Polymers have proven to be very suitable materials for topographic structuring, in particular in nanoreplication processes. Micro- and Nanografting strategies address the possibility for the formation of chemical patterns and structures on or in polymeric substrates using relatively simple processes. Polymer Micro- and Nanografting focuses on grafting techniques characterization and applications for the particular combination of polymer layers on polymer substrates. The authors, leaders in this area of research, provide a comprehensive survey on polymer-on-polymer grafting, covering the lates