

M.V. Russo (Ed.)

Advances in Macromolecules

Perspectives and Applications



Springer

Contents

1 Nanostructured Macromolecules	1
Maria Vittoria Russo, Ilaria Fratoddi, and Iole Venditti	
2 Macromolecular Systems with Second Order Nonlinear Optical Properties	79
Roberto Centore and Antonio Roviello	
3 Macromolecular Systems with Nonlinear Optical Properties: Optical Characterization and Devices	119
Paolo Proposito and Fabio De Matteis	
4 Functional and Nanostructured Materials Investigated by XPS and NEXAFS Spectroscopies	165
Giovanni Polzonetti and Chiara Battocchio	
5 Hybrid Systems Biomolecule-Polymeric Nanoparticle: Synthesis, Properties and Biotechnological Applications	219
Cleofe Palocci and Laura Chronopoulou	
Appendix	
Principal Characterization Techniques of Nanostructured Macromolecules	261
Index	265