

CONTENTS

1. Physical and chemical properties of Nano-Sized metal particles	1
2. Metal-Containing polymers: Cryochemical Synthesis, Structure, and Physicochemical Properties	37
3. Controlled pyrolysis of Metal-Containing precursors as a Way for synthesis of metallopolymer nanocomposites	75
4. Nanostructured polymeric nanoreactors for metal nanoparticle formation	123
5. Metal-Polymer nanocomposite synthesis: Novel <i>ex situ</i> and <i>in situ</i> Approaches	155
6. Plamon absorption of embedded nanoparticles	183
7. Magneto-optics of granular materials and new optical methods of Magnetic nanoparticles and nanostructures imaging	201
8. Optical extinction of metal nanoparticles synthesized in polymer by ion implantation	241
9. Optically anisotropic metal-polymer nanocomposites	265
Index	287