

# Contents

<b>Conducting Polymer Nanocomposites: Recent Developments and Future Prospects</b> . . . . .	1
Changyu Tang, Nanxi Chen and Xin Hu	
<b>Magnetic Nanoparticles-Based Conducting Polymer Nanocomposites</b> . . . . .	45
A. Muñoz-Bonilla, J. Sánchez-Marcos and P. Herrasti	
<b>Polypyrrole Nanotubes-Silver Nanoparticles Hybrid Nanocomposites: Dielectric, Optical, Antimicrobial and Haemolysis Activity Study</b> . . . . .	81
J. Upadhyay and A. Kumar	
<b>Conductive Polymer Composites Based on Carbon Nanomaterials</b> . . . . .	117
Santosh Kr. Tiwari, Jawahar Mishra, Goutam Hatui and G.C. Nayak	
<b>Clay-Based Conducting Polymer Nanocomposites</b> . . . . .	143
Alessandra F. Baldissera and Carlos A. Ferreira	
<b>A Review of Supercapacitor Energy Storage Using Nanohybrid Conducting Polymers and Carbon Electrode Materials</b> . . . . .	165
Punya A. Basnayaka and Manoj K. Ram	
<b>Conducting Polymer Hydrogels and Their Applications</b> . . . . .	193
Kashma Sharma, Vijay Kumar, B.S. Kaith, Susheel Kalia and Hendrik C. Swart	
<b>Conducting Polymer Nanocomposites for Sensor Applications</b> . . . . .	223
Subhash B. Kondawar and Pallavi T. Patil	
<b>Conducting Polymer Nanocomposite-Based Supercapacitors</b> . . . . .	269
Soon Yee Liew, Darren A. Walsh and George Z. Chen	
<b>Composites Based on Conducting Polymers and Carbon Nanotubes for Supercapacitors</b> . . . . .	305
Paramjit Singh	

Conducting Polymer Hybrids

Kumar, V.; Kalia, S.; Swart, H.C. (Eds.)

2017, V, 336 p. 195 illus., 135 illus. in color., Hardcover

ISBN: 978-3-319-46456-5