
Contents

Preface.....	vii
Editor.....	ix
Contributors	xi
Chapter 1 Introduction to Composite Materials	1
<i>Ravindra Pratap Singh and Kshitij R. B. Singh</i>	
Chapter 2 Biocomposites and Nanocomposites	29
<i>C. H. Lee, S. H. Lee, F. N. M. Padzil, Z. M. A. Ainun, M. N. F. Norraahim and K. L. Chin</i>	
Chapter 3 Properties of Composite Materials.....	61
<i>Arvind Kumar Chauhan, Amarjeet Singh, Deepak Kumar and Kuldeep Mishra</i>	
Chapter 4 Synthesis of a Hybrid Self-Cleaning Coating System for Glass.....	79
<i>A. Syafiq, B. Vengadaesvaran, Nasrudin Abd. Rahim, A. K. Pandey, A. R. Bushroa, K. Ramesh and S. Ramesh</i>	
Chapter 5 Experimental and Characterization Techniques.....	99
<i>Rahul, Rakesh K. Sonker, P. K. Shukla, Pramod K. Singh and Zishan H. Khan</i>	
Chapter 6 Electrical Characterization of Electro-Ceramics	125
<i>Sheela Devi and Shilpi Jindal</i>	
Chapter 7 Thermal Characterization of Composites	149
<i>Rajashri Priyadarshini</i>	
Chapter 8 Mechanical Characterization Techniques for Composite Materials	155
<i>Partha Pratim Das and Vijay Chaudhary</i>	
Chapter 9 Humidity Sensor Based on Alum–Fly Ash Composite.....	163
<i>Amit Sachdeva, Shri Prakash Pandey and Pramod K. Singh</i>	
Chapter 10 Applications of Graphene-Based Composite Materials.....	173
<i>Gorkem Memisoglu, Burhan Gulbahar and Canan Varlikli</i>	
Chapter 11 Low Power Ge-Si _{0.7} Ge _{0.3} nJLTFET and pJLTFET Design and Characterization in Sub-20 nm Technology Node	199
<i>Suman Lata Tripathi, Sobhit Saxena, Yogesh Kumar Verma and Manoj Singh Adhikari</i>	

Chapter 12	Influence of Moisture Uptake on the Mechanical Properties of Natural Fiber-Reinforced Polymer Composites	213
	<i>Partha Pratim Das, Aseem Acharya and Vijay Chaudhary</i>	
Chapter 13	Exploring the Potential of Nanotechnology in Agriculture: Current Research and Future Prospects	223
	<i>Mitali Mishra, Ashutosh Kumar Pandey, Kritika Pandey, Saurabh Dixit, Fatima Zohra, Aparna Seth and Sanchita Singh</i>	
Chapter 14	Nanostructuring of Materials by Severe Deformation Processes.....	243
	<i>Aman J. Shukla, Devesh K. Chouhan and Somjeet Biswas</i>	
Index		261