

1. Record Nr.	UNINA9910461279503321
Titolo	Polymers as natural nanocomposites [[electronic resource] /] / Shota R. Matsuda, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, c2011
ISBN	1-61942-477-0
Descrizione fisica	1 online resource (163 p.)
Collana	Nanotechnology science and technology Polymer science and technology
Altri autori (Persone)	MatsudaShota R
Disciplina	620.1/92
Soggetti	Polymeric composites Nanocomposites (Materials) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""POLYMERS AS NATURAL NANOCOMPOSITES""; ""POLYMERS AS NATURAL NANOCOMPOSITES""; ""Contents""; ""Preface""; ""The Comparative Analysis of Reinforcement Mechanisms""; ""Abstract""; ""Introduction""; ""Experimental""; ""Results and Discussion""; ""Conclusions""; ""References""; ""The Geometry of Intercomponent Interactions""; ""Abstract""; ""Introduction""; ""Experimental""; ""Results and Discussion""; ""Conclusions""; ""References""; ""The Reinforcement Structural Model""; ""Abstract""; ""Introduction""; ""Experimental""; ""Results and Discussion""; ""Conclusions""; ""References""; ""The Structural Analysis of Thermo-physical Properties""""Abstract""; ""Introduction""; ""Experimental""; ""Results and Discussion""; ""Conclusions""; ""References""; ""The Leidner-Woodhams Model Application""; ""Abstract""; ""Introduction""; ""Experimental""; ""Results and Discussion""; ""Conclusions""; ""References""; ""The Stress Concentration and Strength""; ""Abstract""; ""Introduction""; ""Experimental""; ""Results and Discussion""; ""Conclusions""; ""References""; ""The Characteristics of EPR Spectra as Indicator of a Molecular Mobility Level in Polymers""; ""Abstract""; ""Introduction""""Experimental""; ""Results and Discussion""; ""Conclusions""; ""References""; ""Elasticity Modulus and Polymer Chains Tightness""; ""Abstract""; ""Introduction""; ""Experimental""; ""Results

and Discussion""; ""Conclusions""; ""References""; ""Polymer/Silicate
Nanocomposites Based on Organomodified Clays""; ""Abstract"";
""References""; ""Carbon Nanotube-Polymer Nanocomposites:
Principles and Applications""; ""Abstract""; ""1. Introduction""; ""2. Load
Transfer and Alignment""; ""3. Mechanical Properties in Carbon
Nanotube Polymer Nanocomposites""
""4. Tribological Properties in Carbon Nanotube Polymer Composites""
5. Electrical Conductive Properties in Carbon Nanotube Polymer
Nanocomposites""; ""6. Chemical Functionalization of Carbon
Nanotubes""; ""7. Functionalized Carbon Nanotube-Polymer
Nanocomposites""; ""Conclusions""; ""Acknowledgments"";
""References""; ""Chapter Sources""; ""Index""
