

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"
