

1. Record Nr.	UNINA9910442059303321
Autore	Jantsch, Erich
Titolo	The self-organizing universe : scientific and human implications of the emerging paradigm of evolution / by Erich Jantsch
Pubbl/distr/stampa	Oxford [etc.], : Pergamon press, 1980
ISBN	0080243118 0080243126
Descrizione fisica	XVII, 343 p. : ill. ; 24 cm
Collana	Systems science and world order library. Innovations in systems science
Locazione	FI1
Collocazione	F.D.i. 0698
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910254046403321
Autore	Dasari Aravind
Titolo	Polymer Nanocomposites : Towards Multi-Functionality // by Aravind Dasari, Zhong-Zhen Yu, Yiu-Wing Mai
Pubbl/distr/stampa	London : , : Springer London : , : Imprint : Springer , , 2016
ISBN	1-4471-6809-7
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XII, 305 p. 196 illus., 72 illus. in color.)
Collana	Engineering Materials and Processes, , 1619-0181
Disciplina	620.118
Soggetti	Nanotechnology Mechanics Mechanics, Applied Biotechnology Nanotechnology and Microengineering Solid Mechanics Microengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction: Towards Multi-functionality -- Nanoparticles -- Processing -- Microstructural Characterization -- Interfaces -- Mechanical Properties -- Thermal Properties -- Flame Retardancy -- Wear/Scratch Damage -- Functional Properties -- Ecological Issues with Polymeric Materials -- Applications and Outlook. .
Sommario/riassunto	This highlights ongoing research efforts on different aspects of polymer nanocomposites and explores their potentials to exhibit multi-functional properties. In this context, it addresses both fundamental and advanced concepts, while delineating the parameters and mechanisms responsible for these potentials. Aspects considered include embrittlement/toughness; wear/scratch behaviour; thermal stability and flame retardancy; barrier, electrical and thermal conductivity; and optical and magnetic properties. Further, the book was written as a coherent unit rather than a collection of chapters on different topics. As such, the results, analyses and discussions presented herein provide a guide for the development of a new class of multi-functional nanocomposites. Offering an invaluable resource for

materials researchers and postgraduate students in the polymer composites field, they will also greatly benefit materials.

---