1. Record Nr. UNINA9910146577803321

Titolo	Solar and heliospheric origins of space weather phenomena / / Jean-Pierre Rozelot (editor)
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer, , [2006] ©2006
ISBN	1-280-62734-4 9786610627349 3-540-33759-8
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (175 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 699
Disciplina	523.58
Soggetti	Solar wind Sun Environmental aspects Congresses
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Lectures given at the 7th in a series of CNRS Solar Astrophysics Schools, held in Saint-Pierre d'Oleron, France.
Nota di contenuto	Advances in Understanding Elements of the Sun—Earth Links -- Some Basic Aspects of the Solar Wind -- The Solar Spectrum in the UV, EUV, and X Ranges: Observations, Modelling, and E.ects on the Earth Upper Atmosphere in the Frame of Space Weather -- Earth Radiation Belts -- Radio Emissions from the Sun and the Interplanetary Medium -- The Sun, The Earth, and the Space Weather.
Sommario/riassunto	This book comprises an excursion through space weather, a scientific topic in rapid growth and with growing impact and complications for technological societies. The emphasis of the present volume is on the origins of space weather: the Sun and the solar mind. Very much as the Sun`s electromagnetic radiation drives the Earth climate, our space weather is driven by the solar wind. This book addresses students and scientists working, or interested in, the field and provides a thorough introduction to the topic for those who wish to become acquainted with the basic solar physics at the origin of space weather.

2. Record Nr. UNINA9910845088603321

Autore	Namburi Eswara Prasad
Titolo	Novel Defence Functional and Engineering Materials (NDFEM) Volume 1 : Functional Materials for Defence Applications / / edited by Eswara Prasad Namburi, R. J. H. Wanhill, Dipak Kumar Setua
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819997916 9819997917
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (338 pages)
Collana	Indian Institute of Metals Series, , 2509-6419
Altri autori (Persone)	WanhillR. J. H SetuaDipak Kumar
Disciplina	620.11
Soggetti	Materials Materials - Analysis Building materials Bionics Polymers Materials Engineering Materials Characterization Technique Structural Materials Bioinspired Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Polymer Materials for Defence & Aerospace Applications -- Chapter 2: Functional Polymers for Defence Applications -- Chapter 3: 0D, 1D, 2D & 3D Nano Materials: Synthesis and Applications -- Chapter 4: A New Frontier in Functional Fluids: Nano Lubricating and Thermally Conducting Fluids -- Chapter 5: Electrically, Magnetically and Strain Field Assisted Smart / Functional Nano Fluids -- Chapter 6: Polymer Precursors for High Technology Applications -- Chapter 7: Precursor Materials for Semiconductor Thin Films -- Chapter 8: Functional Paints and Coatings -- Chapter 9: Hydrogels: A Unique Class of Soft Materials -- Chapter 10: Ionic Liquids: New Functional Fluids as Lubricants.
Sommario/riassunto	This book provides the latest developments in functional and

engineering materials for defence applications. It contains a total of 20 book chapters in 2 proposed volumes: Vol. 1. Defence Functional Materials and Vol. 2. Defence Engineering Materials. All the book chapters are authored by leading scientists from the premier institutes, such as DRDO laboratory, DMSRDE, Kanpur, India, and edited by Drs. N Eswara Prasad, RJH Wanhill, and DK Setua. Both the authors and the editors are well known internationally for their seminal works in the Functional and Engineering Materials R&D and S&T. The principal purpose of this two-volume book is to provide the salient features of materials selection, synthesis, development and qualification for many a classical applications encompassing aero, naval and ground-based defence systems. They would surely act as valuable vade mecums for both active researchers, defence experts, post-graduate students, and faculty members who like to work and contribute to defence forces through research in areas such as defence materials, products, prototypes, sub-systems and systems that need cutting edge technologies and the latest and best materials and materials solutions.