

1. Record Nr.	UNINA9910787575703321
Titolo	Advanced nanomaterials for aerospace applications / / edited by Carlos R. Cabrera, Felix A. Miranda
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press : , : Pan Stanford Publishing, , [2015] ©2015
ISBN	0-429-17174-9 981-4463-18-3
Descrizione fisica	1 online resource (389 p.)
Disciplina	617.60028
Soggetti	Nanostructured materials - Industrial applications Nanotechnology - Research
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 at the end of each chapters.
Nota di contenuto	Front Cover; Contents; Preface; Chapter 1 - Advanced Sensor Nanomaterials for Aerospace Applications; Chapter 2 - Challenges and Possibilities in Nanosensor Technology; Chapter 3 - Nanoporous Materials in Atmosphere Revitalization; Chapter 4 - Nanotechnology in Advanced Life Support: Water Recycling; Chapter 5 - Nanomaterials for Advanced Lithium-Ion Battery Anodes; Chapter 6 - Advances in Designing High-Energy Cathode Materials for Li-Ion Rechargeable Batteries; Chapter 7 - Nanomaterials in Regenerative Fuel Cells; Chapter 8 - Nanotechnology for Nanoelectronic Devices Chapter 9 - Brief Introduction to Nanocomposites for Electromagnetic Shielding Chapter 10 - Epoxy Nanocomposite Based on Carbon Nanotubes for Electromagnetic Interface Shielding; Chapter 11 - Bringing NASA-Relevant Nanotechnology Research into the Classroom; Chapter 12 - Future Directions in Nanotechnology R&D at NASA; Back Cover
Sommario/riassunto	Advanced Nanomaterials for Aerospace Applications has been developed for a community interested in space science and nanotechnology. Scientists and engineers from several NASA field centers and the Jet Propulsion Laboratory, University of Puerto Rico, The Pennsylvania State University, and INFN-Laboratori Nazionali di

Frascati, Italy, have joined efforts to discuss the applications of nanomaterials in sensors, atmosphere revitalization in habitable space platforms, life support systems, regenerative fuel cells, lithium-ion batteries, robust lightweight materials, nanoelectronics, and electroma
