1. Record Nr. UNISA996199395203316

Autore	DiNardo N. John
Titolo	Nanoscale characterization of surfaces and interfaces / / N. John DiNardo
Pubbl/distr/stampa	Weinheim, [Germany] : , : VCH, , 1994 ©1994
ISBN	1-281-84293-1 9786611842932 3-527-61595-4 3-527-61594-6
Descrizione fisica	1 online resource (176 p.)
Disciplina	530.427 620.44
Soggetti	Surfaces (Physics) Scanning tunneling microscopy Nanotechnology
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.
Nota di contenuto	Nanoscale Characterization of Surfaces and Interfaces; Nanoscale Characterization of Surfaces and Interfaces; List of Symbols and Abbreviations; 1 Introduction; 2 Scanning Tunneling Microscopy (STM); 2.1 Historical Perspective; 2.2 Theory; 2.2.1 Electron Tunneling and STM Imaging; 2.2.2 Scanning Tunneling Spectroscopy (STS); 2.2.3 Inelastic Tunneling Spectroscopy; 2.2.4 Ballistic Electron Emission Microscopy (BEEM); 2.3 Instrumentation; 2.3.1 Microscope Design: STM Heads; 2.3.2 Tips; 2.3.3 Vibration and Shock Isolation; 2.3.4 Electronics; 2.3.5 Microcomputer Control 2.6.2 Surface Diffusion2.6.3 Stepped Surfaces; 2.6.4 Adsorbate-Induced Reconstructions of Metal Surfaces; 2.6.5 Growth of Metallic Adlayers; 2.6.6 Resistivity in Polycrystalline Metals - Scanning Tunneling Potentiometry; 2.7 Insulators; 2.8 Layered Compounds .; 2.9 Charge Density Wave Systems; 2.10 Superconductors; 2.11 Molecular Films, Adsorbates, and Surface Chemistry; 2.11.1 Molecular Imaging; 2.11.2 Adsorption and Surface Chemistry; 2.12 Electrochemistry at

Liquid-Solid Interfaces; 2.1 3 Biological Systems; 2.14 Metrological Applications; 3 Atomic Force Microscopy
3.1 Atomic Force Imaging3.1.1 Graphite; 3.1.2 Insulators; 3.1.3 Metals; 3.1.4 Films; 3.1.5 Polymer Surfaces and Metal Films on Polymer Substrates; 3.1.6 Biological Molecules; 3.1.7 Adsorption Dynamics of Biological Molecules in Real Time; 3.2 Nanoscale Surface Forces; 3.3 Nanotribology; 3.4 Non-Contact Imaging; 3.4.1 Van der Waals Forces; 3.4.2 Electrostatic Forces; 3.4.3 Magnetic Forces; 4 Manipulation of Atoms and Atom Clusters on the Nanoscale; 4.1 Transfer of Atoms and Atom Clusters Between Tip and Sample; 4.2 Tip-Induced Lateral Motion of Atoms on Surfaces
4.3 Nanoscale Modification by Tip-Induced Local Electron-Stimulated Desorption4.4 Nanoscale Chemical Modification; 4.5 High-Temperature Nanofabrication; 4.6 Nanoscale Surface Modification Using the AFM; 4.7 Towards Nanoscale Devices; 5 Spin-offs of STM - Non-Contact Nanoscale Probes; 5.1 Scanning Near-Field Optical Microscope (SNOM); 5.2 Photon Scanning Tunneling Microscope (PSTM); 5.3 Scanning Thermal Profiler (STP); 5.4 Scanning Chemical Potential Microscope (SCPM); 5.5 Optical Absorption Microscope (OAM); 5.6 Scanning Ion Conductance Microscope (SICM); 6 Acknowledgements; 7 References

Sommario/riassunto

Derived from the highly acclaimed series Materials Science and Technology, this book provides in-depth coverage of STM, AFM, and related non-contact nanoscale probes along with detailed applications, such as the manipulation of atoms and clusters on a nanometer scale. The methods are described in terms of the physics and the technology of the methods and many high-quality images demonstrate the power of these techniques in the investigation of surfaces and the processes which occur on them.Topics include:Semiconductor Surfaces and Interfaces * Insulators * Layered Compounds * Charg

2. Record Nr. UNINA9910699931703321

Titolo	Health hazard evaluation of Deepwater Horizon response workers . Interim report #5 [[electronic resource]] : HETA 2010-0129
Pubbl/distr/stampa	[Atlanta, Ga.] : , : Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, , [2010]
Descrizione fisica	1 online resource (9 unnumbered pages)
Soggetti	Wildlife rehabilitators - Health - Gulf Coast (U.S.) - Evaluation Wildlife rehabilitation - Health - Gulf Coast (U.S.) - Evaluation BP Deepwater Horizon Explosion and Oil Spill, 2010 - Health aspects Oil spills - Health aspects - Mexico, Gulf of Oil spills - Health aspects - Gulf Coast (U.S.) Oil spills - Cleanup - Mexico, Gulf of
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from PDF title screen (viewed Oct. 3, 2012). "26 August 2010"--letter of transmittal. Includes letter of transmittal.

3. Record Nr. UNINA9910853995703321

Autore	Anouzla Abdelkader
Titolo	Technical Landfills and Waste Management : Volume 1: Landfill Impacts, Characterization and Valorisation / / edited by Abdelkader Anouzla, Salah Souabi
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-52633-3
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (274 pages)
Collana	Springer Water, , 2364-8198
Altri autori (Persone)	SouabiSalah
Disciplina	363.728 628.4
Soggetti	Refuse and refuse disposal Pollution Environmental management Environmental sciences - Social aspects Environmental health Waste Management/Waste Technology Environmental Management Environmental Social Sciences Environmental Health
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Electrical and electromagnetic prospecting for the characterization of municipal waste landfills: A review -- Chapter 2: Characteristics and impacts of municipal solid waste (MSW) -- Chapter 3: Characteristics and Impact Assessment of Municipal Solid Waste (MSW) -- Chapter 4: Characteristics and Impacts of Municipal Solid Waste (MSW): A Review -- Chapter 5: An Overview on Municipal Solid Waste Characteristics and Its Impacts on Environment and Human Health -- Chapter 6: Landfills in Developing Economies: Drivers, Challenges, and Sustainable Solutions -- Chapter 7: The Environmental Pressure by Open dumpsites and Way Forward -- Chapter 8: Assessing two sanitary landfills in the West Bank of Palestine: Current situation and future obstacles -- Chapter 9: Industrial solid wastes and

environment: an overview on global generation, implications, and available management options -- Chapter 10: Micro/Nanoplastics Pollution from Landfill Sites:A Comprehensive Review on the Formation, Distribution, Effects and Potential Mitigation.

Sommario/riassunto

A "zero waste" society and the "circular economy" trend are urgently needed. Even if achieving 100% trash recycling and a fully circular economy may not always be attainable, aiming toward this goal might result in a sustainable future. Municipal solid wastes pose a hazard to the environment because of open burning, landfills, reckless disposal, and many other factors. Waste is being thrown away in more significant quantities and is made up of several different materials. Municipal solid waste (MSW) characteristics must be carefully considered when developing, implementing, or modifying solid waste management systems. Local waste variables that vary with cultural, climatic, socioeconomic, and institutional capacities are crucial for developing efficient waste management techniques. This book provides a comprehensive overview of landfills' situation, their categories, and the types of garbage they receive. The final section of the study provides an overview of prospective waste management techniques, their restrictions, and the potential areas for further research on landfill sites. This book has the advantage that world-class experts in their respective fields have written each chapter. As a result, this book presents a balanced picture across the whole spectrum of chapters on municipal solid wastes.