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| Titolo                  | Imaging and Manipulation of Adsorbates Using Dynamic Force Microscopy [[electronic resource] ] : Proceedings from the AtMol Conference Series, Nottingham, UK, April 16-17, 2013 // edited by Philip Moriarty, Sebastien Gauthier  |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015  |
| ISBN                    | 3-319-17401-0  |
| Edizione                | [1st ed. 2015.]  |
| Descrizione fisica      | 1 online resource (169 p.)   |
| Collana                 | Advances in Atom and Single Molecule Machines, , 2193-9691   |
| Disciplina              | 54<br>541.2<br>620.5   |
| Soggetti                | Nanochemistry<br>Nanoscale science<br>Nanoscience<br>Nanostructures<br>Nanoscale Science and Technology  |
| 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       | Pauli's Principle in Probe Microscopy -- Mechanical and Electrical Properties of Single Molecules -- Atom Manipulation Using Atomic Force Microscopy at Room Temperature -- A Considered Approach to Force Extraction from Dynamic Force Microscopy Measurements -- Theoretical Challenges of Simultaneous NC-AFM/STM Experiments -- Manipulation of Metal Nanoparticles on Insulating Surfaces -- Imaging of Defects on Ge(001):H by Non-Contact Atomic Force Microscopy -- Adsorption Structures of Amino Acids on Calcite(104) -- NC-AFM and KPFM Study of the Adsorption of a Triphenylene Derivative on KBr(001). |
| Sommario/riassunto      | Imaging and Manipulation of Adsorbates using Dynamic Force Microscopy provides an overview of the latest developments in dynamic force microscopy (DFM) of atoms, molecules, and nanoparticles adsorbed on solid surfaces. Significant advances in the capabilities of this technique have been made in the last decade and this book  |

represents a timely snapshot of the major research themes in the field, with a particular focus on the manipulation of matter at the atomic and (sub)molecular levels. This edited volume will be of keen interest to researchers active in nanoscience and its various sub-fields including, in particular, scanning probe microscopy. This book expands on the previous volumes in the series *Advances in Atom and Single Molecule Machines*.

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