1. Record Nr. UNINA9910163096503321

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| Titolo | Ultrafast dynamics at the nanoscale : biomolecules and supramolecular assemblies / / edited by Irene Burghardt, Stefan Haacke |
| Pubbl/distr/stampa | Singapore : , : Pan Stanford Publishing, , [2017]<br>©2017 |
| ISBN | 1-315-36459-X<br>981-4745-34-0<br>1-315-34092-5 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (470 pages) : illustrations |
| Disciplina | 547.139 |
| Soggetti | Biomolecules - Synthesis |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di contenuto | Section I. Experiment -- Section II. Theory. |
| Sommario/riassunto | Ultrafast Dynamics at the Nanoscale provides a combined experimental and theoretical insight into the molecular-level investigation of light-induced quantum processes in biological systems and nanostructured (bio)assemblies. Topics include DNA photostability and repair, photoactive proteins, biological and artificial light-harvesting systems, plasmonic nanostructures, and organic photovoltaic materials, whose common denominator is the key importance of ultrafast quantum effects at the border between the molecular scale and the nanoscale. The functionality and control of these systems have been under intense investigation in recent years in view of developing a detailed understanding of ultrafast nanoscale energy and charge transfer, as well as fostering novel technologies based on sustainable energy resources. Both experiment and theory have made big strides toward meeting the challenge of these truly complex systems. This book, thus, introduces the reader to cutting-edge developments in ultrafast nonlinear optical spectroscopies and the quantum dynamical simulation of the observed dynamics, including direct simulations of two-dimensional optical experiments. Taken together, these techniques attempt to elucidate whether the quantum coherent nature of ultrafast |

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| | events enhances the efficiency of the relevant processes and where the quantum-classical boundary sets in, in these high-dimensional biological and material systems. The chapters contain well-illustrated accounts of the authors' research work, including didactic introductory material, and address a multidisciplinary audience from chemistry, physics, biology, and materials sciences. The book is, therefore, a must-have for graduate- and postgraduate-level researchers who wish to learn about molecular nanoscience from a combined spectroscopic and theoretical viewpoint. |

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| Record Nr. | UNINA9910973145203321 |
| Autore | Keskitalo E. C. H (Eva Carina Helena), <1974-> |
| Titolo | Negotiating the Arctic : the construction of an international region / / E. C.H. Keskitalo |
| Pubbl/distr/stampa | New York, : Routledge, 2004 |
| ISBN | 1-280-07591-0<br>0-203-50811-4<br>1-135-93844-X<br>0-415-94712-X |
| Descrizione fisica | xv, 282 p |
| Collana | Studies in international relations |
| Disciplina | 998 |
| Soggetti | Geography - Arctic regions<br>Arctic regions History<br>Arctic regions International status<br>Arctic regions Research International cooperation |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Bibliographic Level Mode of Issuance: Monograph |
| Nota di bibliografia | Includes bibliographical references (p. 229-256) and index. |
| Sommario/riassunto | This work draws upon the history of Arctic development and the view of the Arctic in different states to explain how such a discourse has manifested itself in current broader cooperation across eight statistics analysis based on organization developments from the late 1970s to the present, shows that international region discourse has largely been |

forwarded through the extensive role of North American, particularly Canadian, networks and deriving form their frontier-based conceptualization of the north.