1. Record Nr. UNINA9910555154803321

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Titolo	Biomolecular and bioanalytical techniques : theory, methodology and applications / / edited by Vasudevan Ramesh, School of Chemistry, University of Manchester, Manchester,U.K
Pubbl/distr/stampa	Hoboken, NJ : , : Wiley, , 2019
ISBN	1-119-48401-4 1-119-48397-2 1-119-48398-0
Edizione	[1st edition]
Descrizione fisica	1 online resource (579 pages)
Disciplina	572.8/38
Soggetti	Molecular biology - Technique
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Principles of health and safety and good laboratory practice -- Applications of chemoinformatics in drug discovery -- Bioinformatics and its applications in genomics -- Gene cloning for the analysis of gene expression -- Proteomic techniques and their applications -- Overproduction,separation and purification of affinity-tagged proteins from escherichia coli -- Chromatography: separation techniques in biology -- Synthetic methodology in chemical biology -- Reaction chemical kinetics in biology -- Mass spectrometry and its applications -- Applications and complementarity of analytical ultracentrifugation and light-scattering techniques -- Application of isothermal titration calorimetry (ITC) to biomolecular interactions -- An introduction to infrared and raman spectroscopies for pharmaceutical and biomedical studies -- Fluorescence spectroscopy and its applications in analyzing biomolecular processes -- Circular dichroism and related spectroscopic techniques -- Principles and practice in macromolecular X-ray crystallography -- Biomolecular NMR spectroscopy and structure determination of DNA -- Cryo-TEM and biological structure determination -- Computer modelling and molecular dynamics simulation of biomolecules.
Sommario/riassunto	An essential guide to biomolecular and bioanalytical techniques and

their applications Biomolecular and Bioanalytical Techniques offers an introduction to, and a basic understanding of, a wide range of biophysical techniques. The text takes an interdisciplinary approach with contributions from a panel of distinguished experts. With a focus on research, the text comprehensively covers a broad selection of topics drawn from contemporary research in the fields of chemistry and biology. Each of the internationally reputed authors has contributed a single chapter on a specific technique. The chapters cover the specific technique’s background, theory, principles, technique, methodology, protocol and applications. The text explores the use of a variety of analytical tools to characterise biological samples. The contributors explain how to identify and quantify biochemically important molecules, including small molecules as well as biological macromolecules such as enzymes, antibodies, proteins, peptides and nucleic acids. This book is filled with essential knowledge and explores the skills needed to carry out the research and development roles in academic and industrial laboratories. A technique-focused book that bridges the gap between an introductory text and a book on advanced research methods Provides the necessary background and skills needed to advance the research methods Features a structured approach within each chapter Demonstrates an interdisciplinary approach that serves to develop independent thinking Written for students in chemistry, biological, medical, pharmaceutical, forensic and biophysical sciences, Biomolecular and Bioanalytical Techniques is an in-depth review of the most current biomolecular and bioanalytical techniques in the field.

2. Record Nr. UNINA9910254845703321

Titolo	Smart Grid Inspired Future Technologies : First International Conference, SmartGIFT 2016, Liverpool, UK, May 19-20, 2016, Revised Selected Papers / / edited by Jia Hu, Victor C. M. Leung, Kun Yang, Yan Zhang, Jianliang Gao, Shusen Yang
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-47729-3
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XV, 234 p. 89 illus.)
Collana	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, , 1867-822X ; ; 175
Disciplina	610
Soggetti	Computer networks Computers, Special purpose Application software Data protection Electric power production Computer Communication Networks Special Purpose and Application-Based Systems Computer and Information Systems Applications Data and Information Security Electrical Power Engineering Mechanical Power Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Mobility Incorporated Vehicle-to-Grid (V2G) Optimization for Uniform Utilization in Smart Grid based Power Distribution Network -- A Cost Function based Prioritization Method for Smart Grid Communication Network -- Clustering Power Consumption Data in Smart Grid -- Using a Cost Function to Choose the Best Communication Technology for fulfilling the Smart Meters Communication Requirements -- Assessing Loss Event Frequencies of Smart Grid Cyber Threats: Encoding Flexibility into FAIR Using Bayesian Network Approach -- Replay attack impact on Advanced Metering Infrastructure (AMI) -- D2Sketch:

Supporting Efficient Identification of Heavy Hitters over Sliding Windows -- Short Term Load Forecasting for Residential Buildings -- Short-Term Electrical Load Forecasting based on Fuzzy Logic Control and Improved Back Propagation Algorithm -- On the Study of Secrecy Capacity with Outdated CSI -- The Role of Analog Beamwidth in Spectral Efficiency of Millimeter Wave Ad Hoc Networks -- An ANN-based Energy Forecasting Framework for the District Level Smart Grids -- Future demand response services for blocks of buildings -- Use Cases and Business Models of Multi-Agent System (MAS) ICT Solutions for LV Flexibility Management -- Combination of Standards to Support Flexibility Management in the Smart Grid, Challenges and Opportunities -- A Load Balanced Charging Strategy for Electric Vehicle in Smart Grid -- Optimized Energy-aware Window Control -- Smart Home System Network Architecture -- Threat navigator: grouping and ranking malicious external threats to current and future urban smart grids. .

Sommario/riassunto

This book constitutes the post-conference proceedings of the First International Conference on Smart Grid Inspired Future Technologies, SmartGIFT 2016, held in May 2016 in Liverpool, UK. Smart grid is the next generation electric grid that enables efficient, intelligent, and economical power generation, transmission, and distribution. The 25 revised full papers presented were reviewed and selected from 36 submissions. The papers cover technical topics such as high-level ideology and methodology, concrete smart grid inspired data sensing, processing, and networking technologies, smart grid system architecture, Quality of Service (QoS), energy efficiency, security in smart grid systems, management of smart grid systems, service engineering and algorithm design, and real-world deployment experiences.