Annual Reports in Computational Chemistry, Vol 7

Description:
Annual Reports in Computational Chemistry provides timely and critical reviews of important topics in computational chemistry as applied to all chemical disciplines. Topics covered include quantum chemistry, molecular mechanics, force fields, chemical education, and applications in academic and industrial settings. Focusing on the most recent literature and advances in the field, each article covers a specific topic of importance to computational chemists.

Broad coverage of computational chemistry and up-to-date information
Each chapter reviews the most recent literature on a specific topic of interest to computational chemists

Contents:
Contributors

Section 1: Bioinformatics
Preface
Potential Landscape and Flux Framework of Nonequilibrium Biological Networks

1. Introduction
2. Biochemical Oscillation
3. Stem-Cell Differentiation and Development: Arrows of Time
Acknowledgments

Section 2: Simulation Methodologies
Predicting Structural and Functional Properties of Membrane Proteins from Protein Sequence

1. Topologies and 3D Structures of Integral Membrane Proteins
2. Predicting TM Helices from Sequence
3. Predicting Structural Features of Helical TM Proteins
4. Predicting the Exposure Status of TM Residues
5. Topology and Exposure Status Prediction of TMB
6. Functional Classification of GPCRs and Membrane Transporters
7. Outlook

A Review of Coarse-Grained Molecular Dynamics Techniques to Access Extended Spatial and Temporal Scales in Biomolecular Simulations

1. Introduction
2. Energy-Based Approach to Coarse-Graining
4. Mixed Resolution Dynamics
1. Introduction
2. Productivity for Electronic Structure Science and Engineering
3. Productivity for Method Developers
4. Outlook
Acknowledgments

Section 5: Chemical Education

Electronically Excited States in Interstellar Chemistry
1. Introduction
2. Theoretical Details of Coupled Cluster Excited States
3. Excited States in the ISM: Radicals, Cations, and Anions, Oh My!
4. Conclusions
Acknowledgments

Computational Chemistry of Vision in Vertebrates and Invertebrates
1. Introduction
2. Retinal Proteins
3. Theoretical Framework
4. Spectral Tuning
5. Conclusion
Acknowledgments

A Class Project Combining Organic Chemistry, Quantum Chemistry, and Statistics
1. Background
2. Results and Discussion
3. Conclusions
Notes and Acknowledgment

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Annual Reports in Computational Chemistry, Vol 7
Web Address: http://www.researchandmarkets.com/reports/1772307/
Office Code: SCBRBGXT

Product Format
Please select the product format and quantity you require:

| Quantity   | Hard Copy (Paper back): USD 237 + USD 29 Shipping/Handling |

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: Mr □ Mrs □ Dr □ Miss □ Ms □ Prof □
First Name: ___________________________ Last Name: ___________________________
Email Address: * ___________________________
Job Title: ___________________________
Organisation: ___________________________
Address: ___________________________
City: ___________________________
Postal / Zip Code: ___________________________
Country: ___________________________
Phone Number: ___________________________
Fax Number: ___________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: __________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World