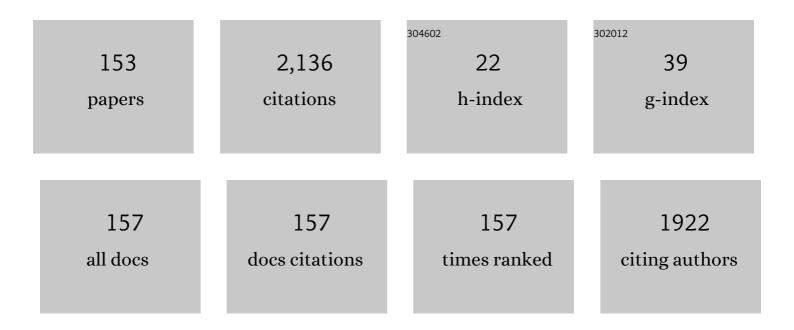
List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Small molecule generation via disentangled representation learning. Bioinformatics, 2022, 38, 3200-3208.   | 1.8 | 3         |
| 2  | Data Size and Quality Matter: Generating Physically-Realistic Distance Maps of Protein Tertiary<br>Structures. Biomolecules, 2022, 12, 908.                    | 1.8 | 5         |
| 3  | Generative deep learning for macromolecular structure and dynamics. Current Opinion in Structural Biology, 2021, 67, 170-177.                                  | 2.6 | 26        |
| 4  | Unsupervised multi-instance learning for protein structure determination. Journal of Bioinformatics and Computational Biology, 2021, 19, 2140002.              | 0.3 | 5         |
| 5  | Generative Adversarial Learning of Protein Tertiary Structures. Molecules, 2021, 26, 1209.   | 1.7 | 10        |
| 6  | Editorial overview: Theory and simulation and their new friends. Current Opinion in Structural Biology, 2021, 67, iii-v.                                       | 2.6 | 0         |
| 7  | Computing the Structural Dynamics of RVFV L Protein Domain in Aqueous Glycerol Solutions.<br>Biomolecules, 2021, 11, 1427.                                     | 1.8 | 1         |
| 8  | Improved Protein Decoy Selection via Non-Negative Matrix Factorization. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, PP, 1-1.      | 1.9 | 1         |
| 9  | Generating tertiary protein structures via interpretable graph variational autoencoders.<br>Bioinformatics Advances, 2021, 1, .                                | 0.9 | 12        |
| 10 | Antigen Binding Reshapes Antibody Energy Landscape and Conformation Dynamics. , 2021, , .  |     | 1         |
| 11 | Generating Physically-Realistic Tertiary Protein Structures with Deep Latent Variable Models Learning<br>Over Experimentally-available Structures. , 2021, , . |     | 1         |
| 12 | Decoy selection for protein structure prediction via extreme gradient boosting and ranking. BMC Bioinformatics, 2020, 21, 189.                                 | 1.2 | 5         |
| 13 | Reducing Ensembles of Protein Tertiary Structures Generated De Novo via Clustering. Molecules, 2020, 25, 2228.   | 1.7 | 6         |
| 14 | Anomaly Detection-Based Recognition of Near-Native Protein Structures. IEEE Transactions on Nanobioscience, 2020, 19, 562-570.                                 | 2.2 | 1         |
| 15 | Evaluating Autoencoder-Based Featurization and Supervised Learning for Protein Decoy Selection.<br>Molecules, 2020, 25, 1146.                                  | 1.7 | 9         |
| 16 | A Multi-channel BiLSTM-CNN Model for Multilabel Emotion Classification of Informal Text. , 2020, , .   |     | 20        |
| 17 | Deep Ranking in Template-free Protein Structure Prediction. , 2020, , .  |     | 5         |
|    |  |     |           |

18 Interpretable Molecule Generation via Disentanglement Learning. , 2020, , .

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Interpretable Deep Graph Generation with Node-edge Co-disentanglement. , 2020, , .   |     | 11        |
| 20 | Reconstruction and Decomposition of High-Dimensional Landscapes via Unsupervised Learning. , 2020, , .   |     | 2         |
| 21 | Variational Autoencoders for Protein Structure Prediction. , 2020, , .   |     | 6         |
| 22 | From Interatomic Distances to Protein Tertiary Structures with a Deep Convolutional Neural Network. , 2020, , .  |     | 0         |
| 23 | Guest Editorial for the ACM International Conference on Bioinformatics, Computational Biology, and<br>Health Informatics. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16,<br>1409-1409. | 1.9 | 0         |
| 24 | Using subpopulation EAs to map molecular structure landscapes. , 2019, , .   |     | 4         |
| 25 | Guest Editorial on the Special Issue on Informatics on Biomedical Data Learning, Reasoning, and<br>Representation. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 81-82.                               | 3.9 | 0         |
| 26 | Attenuating dependence on structural data in computing protein energy landscapes. BMC<br>Bioinformatics, 2019, 20, 280.  | 1.2 | 0         |
| 27 | Modeling the Tertiary Structure of the Rift Valley Fever Virus L Protein. Molecules, 2019, 24, 1768.   | 1.7 | 5         |
| 28 | Balancing multiple objectives in conformation sampling to control decoy diversity in template-free protein structure prediction. BMC Bioinformatics, 2019, 20, 211.  | 1.2 | 20        |
| 29 | Unsupervised Learning for Decoy Selection in Protein Structure Prediction. Biophysical Journal, 2019, 116, 192a.   | 0.2 | 0         |
| 30 | Graph-Based Community Detection for Decoy Selection in Template-Free Protein Structure Prediction.<br>Molecules, 2019, 24, 854.  | 1.7 | 9         |
| 31 | Learning Organizations of Protein Energy Landscapes: An Application on Decoy Selection in<br>Template-Free Protein Structure Prediction. Methods in Molecular Biology, 2019, 1958, 147-171.                          | 0.4 | 2         |
| 32 | Computational Structural Biology: Successes, Future Directions, and Challenges. Molecules, 2019, 24, 637.  | 1.7 | 16        |
| 33 | A Multi-Objective Stochastic Optimization Approach for Decoy Generation in Template-Free Protein<br>Structure Prediction. Biophysical Journal, 2019, 116, 59a.   | 0.2 | 0         |
| 34 | Non-Negative Matrix Factorization for Selection of Near-Native Protein Tertiary Structures. , 2019, , .  |     | 6         |
| 35 | Identifying Near-Native Protein Structures via Anomaly Detection. , 2019, , .  |     | 1         |
| 36 | Building maps of protein structure spaces in template-free protein structure prediction. Journal of<br>Bioinformatics and Computational Biology, 2019, 17, 1940013.  | 0.3 | 3         |

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|----|---|-----|-----------|
| 37 | From molecular energy landscapes to equilibrium dynamics via landscape analysis and markov state<br>models. Journal of Bioinformatics and Computational Biology, 2019, 17, 1940014. | 0.3 | 6         |
| 38 | Unsupervised and Supervised Learning over the Energy Landscape for Protein Decoy Selection.<br>Biomolecules, 2019, 9, 607.  | 1.8 | 6         |
| 39 | Decoy Ensemble Reduction in Template-free Protein Structure Prediction. , 2019, , .   |     | 2         |
| 40 | Learning Reduced Latent Representations of Protein Structure Data. , 2019, , .  |     | 8         |
| 41 | Investigation of a dilated cardiomyopathy–associated variant in BAG3 using genome-edited<br>iPSC-derived cardiomyocytes. JCI Insight, 2019, 4, .                                    | 2.3 | 35        |
| 42 | EML: A Scalable, Transparent Meta-Learning Paradigm for Big Data Applications. Intelligent Systems<br>Reference Library, 2019, , 35-59.   | 1.0 | 1         |
| 43 | Using Sequence-Predicted Contacts to Guide Template-free Protein Structure Prediction. , 2019, , .  |     | 2         |
| 44 | Deep learning improves antimicrobial peptide recognition. Bioinformatics, 2018, 34, 2740-2747.  | 1.8 | 282       |
| 45 | From Optimization to Mapping: An Evolutionary Algorithm for Protein Energy Landscapes. IEEE/ACM<br>Transactions on Computational Biology and Bioinformatics, 2018, 15, 719-731.     | 1.9 | 11        |
| 46 | Structure-Guided Protein Transition Modeling with a Probabilistic Roadmap Algorithm. IEEE/ACM<br>Transactions on Computational Biology and Bioinformatics, 2018, 15, 1783-1796.     | 1.9 | 15        |
| 47 | Sample-Based Models of Protein Energy Landscapes and Slow Structural Rearrangements. Journal of Computational Biology, 2018, 25, 33-50.   | 0.8 | 9         |
| 48 | Reconstructing and Decomposing Protein Energy Landscapes to Organize Structure Spaces and Reveal<br>Biologically-active States. , 2018, , .   |     | 1         |
| 49 | Community Detection for Decoy Selection in Template-free Protein Structure Prediction. , 2018, , .  |     | 2         |
| 50 | Guiding Exploration of Antimicrobial Peptide Space with a Deep Neural Network. , 2018, , .  |     | 0         |
| 51 | An Energy Landscape Treatment of Decoy Selection in Template-Free Protein Structure Prediction.<br>Computation, 2018, 6, 39.  | 1.0 | 13        |
| 52 | Improved Decoy Selection via Machine Learning and Ranking. , 2018, , .  |     | 2         |
| 53 | From mutations to mechanisms and dysfunction via computation and mining of protein energy landscapes. BMC Genomics, 2018, 19, 671.  | 1.2 | 6         |
| 54 | From Extraction of Local Structures of Protein Energy Landscapes to Improved Decoy Selection in Template-Free Protein Structure Prediction. Molecules, 2018, 23, 216.               | 1.7 | 29        |

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| 55 | Advances in the Application and Development of Non-Linear Global Optimization Techniques in<br>Computational Structural Biology. IEEE/ACM Transactions on Computational Biology and<br>Bioinformatics, 2018, 15, 688-689. | 1.9 | Ο         |
| 56 | Statistical Analysis of Computed Energy Landscapes to Understand Dysfunction in Pathogenic Protein Variants. , 2017, , .  |     | 1         |
| 57 | Evolving Conformation Paths to Model Protein Structural Transitions. , 2017, , .  |     | Ο         |
| 58 | Reconstructing and mining protein energy landscape to understand disease. , 2017, , .   |     | 1         |
| 59 | Evolutionary search for paths on protein energy landscapes. , 2017, , .   |     | Ο         |
| 60 | Guest Editorial for Special Section on BIBM 2014. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 252-253.   | 1.9 | 0         |
| 61 | Modeling protein structural transitions as a multiobjective optimization problem. , 2017, , .   |     | Ο         |
| 62 | Out of one, many: Exploiting intrinsic motions to explore protein structure spaces. , 2017, , .   |     | 0         |
| 63 | Foreword on special issue on robotics methods for structural and dynamic modeling of molecular systems. Robotica, 2016, 34, 1677-1678.  | 1.3 | 0         |
| 64 | A stochastic roadmap method to model protein structural transitions. Robotica, 2016, 34, 1705-1733.   | 1.3 | 11        |
| 65 | A Survey of Computational Methods for Protein Function Prediction. , 2016, , 225-298.   |     | 42        |
| 66 | A Novel EA-based Memetic Approach for Efficiently Mapping Complex Fitness Landscapes. , 2016, , .   |     | 6         |
| 67 | Path-based Guidance of an Evolutionary Algorithm in Mapping a Fitness Landscape and its Connectivity.<br>, 2016, , .  |     | 0         |
| 68 | Sample-based Models of Protein Structural Transitions. , 2016, , .  |     | 5         |
| 69 | Computing energy landscape maps and structural excursions of proteins. BMC Genomics, 2016, 17, 546.   | 1.2 | 20        |
| 70 | A General, Adaptive, Roadmap-Based Algorithm for Protein Motion Computation. IEEE Transactions on<br>Nanobioscience, 2016, 15, 158-165.   | 2.2 | 14        |
| 71 | Principles and Overview of Sampling Methods for Modeling Macromolecular Structure and Dynamics.<br>PLoS Computational Biology, 2016, 12, e1004619.  | 1.5 | 188       |
| 72 | A Review of Evolutionary Algorithms for Computing Functional Conformations of Protein<br>Molecules. Methods in Pharmacology and Toxicology, 2015, , 31-64.  | 0.1 | 16        |

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| 73 | Mapping the Conformation Space of Wildtype and Mutant H-Ras with a Memetic, Cellular, and<br>Multiscale Evolutionary Algorithm. PLoS Computational Biology, 2015, 11, e1004470. | 1.5 | 47        |
| 74 | Computational Methods for Exploration and Analysis of Macromolecular Structure and Dynamics.<br>PLoS Computational Biology, 2015, 11, e1004585.                                 | 1.5 | 13        |
| 75 | Computing transition paths in multiple-basin proteins with a probabilistic roadmap algorithm guided by structure data. , 2015, , .  |     | 10        |
| 76 | A Data-Driven Evolutionary Algorithm for Mapping Multibasin Protein Energy Landscapes. Journal of<br>Computational Biology, 2015, 22, 844-860.                                  | 0.8 | 31        |
| 77 | Characterizing Energy Landscapes of Peptides Using a Combination of Stochastic Algorithms. IEEE<br>Transactions on Nanobioscience, 2015, 14, 545-552.                           | 2.2 | 23        |
| 78 | The 7th Computational Structural Bioinformatics Workshop. Journal of Computational Biology, 2015, 22, 785-786.  | 0.8 | 0         |
| 79 | Evolution Strategies for Exploring Protein Energy Landscapes. , 2015, , .   |     | 5         |
| 80 | Mapping Multiple Minima in Protein Energy Landscapes with Evolutionary Algorithms. , 2015, , .  |     | 1         |
| 81 | idDock+: Integrating Machine Learning in Probabilistic Search for Protein–Protein Docking. Journal of Computational Biology, 2015, 22, 806-822.                                 | 0.8 | 5         |
| 82 | Evolutionary Algorithms for Protein Structure Modeling. , 2015, , .   |     | 1         |
| 83 | Effective Automated Feature Construction and Selection for Classification of Biological Sequences.<br>PLoS ONE, 2014, 9, e99982.  | 1.1 | 48        |
| 84 | A novel method to improve recognition of antimicrobial peptides through distal sequence-based features. , 2014, , .   |     | 3         |
| 85 | A multiscale hybrid evolutionary algorithm to obtain sample-based representations of multi-basin protein energy landscapes. , 2014, , .   |     | 14        |
| 86 | Knowledge-based search and multi-objective filters. , 2014, , .   |     | 0         |
| 87 | Sampling-based methods for a full characterization of energy landscapes of small peptides. , 2014, , .  |     | 2         |
| 88 | Evolutionary search algorithms for protein modeling. , 2014, , .  |     | 1         |
| 89 | Exploring representations of protein structure for automated remote homology detection and mapping of protein structure space. BMC Bioinformatics, 2014, 15, S4.                | 1.2 | 8         |
| 90 | Computer scientist in profile. ACM SIGBioinformatics Record, 2014, 4, 5-7.  | 0.3 | 0         |

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| 91  | Binary Response Models for Recognition of Antimicrobial Peptides. , 2013, , .  |     | 11        |
| 92  | Probabilistic Search and Energy Guidance for Biased Decoy Sampling in Ab Initio Protein Structure<br>Prediction. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 1162-1175. | 1.9 | 36        |
| 93  | The 6th Computational Structural Bioinformatics Workshop. BMC Structural Biology, 2013, 13, 11.  | 2.3 | 1         |
| 94  | A population-based evolutionary search approach to the multiple minima problem in de novo protein structure prediction. BMC Structural Biology, 2013, 13, S4.  | 2.3 | 18        |
| 95  | Elucidating the ensemble of functionally-relevant transitions in protein systems with a robotics-inspired method. BMC Structural Biology, 2013, 13, S8.  | 2.3 | 25        |
| 96  | HopDock: a probabilistic search algorithm for decoy sampling in protein-protein docking. Proteome<br>Science, 2013, 11, S6.  | 0.7 | 10        |
| 97  | Rapid sampling of local minima in protein energy surface and effective reduction through a multi-objective filter. Proteome Science, 2013, 11, S12.  | 0.7 | 6         |
| 98  | Multi-Objective Stochastic Search for Sampling Local Minima in the Protein Energy Surface. , 2013, , .   |     | 34        |
| 99  | A PCA-guided Search Algorithm to Probe the Conformational Space of the Ras Protein. , 2013, , .  |     | 0         |
| 100 | Exploring the Structure Space of Wildtype Ras Guided by Experimental Data. , 2013, , .   |     | 3         |
| 101 | Menthol Inhibits 5-HT <sub>3</sub> Receptor–Mediated Currents. Journal of Pharmacology and<br>Experimental Therapeutics, 2013, 347, 398-409.   | 1.3 | 40        |
| 102 | Informatics-driven Protein-protein Docking. , 2013, , .  |     | 3         |
| 103 | Higher-order representations of protein structure space. , 2013, , .   |     | 0         |
| 104 | Are nicotinic acetylcholine receptors coupled to G proteins?. BioEssays, 2013, 35, 1025-1034.  | 1.2 | 72        |
| 105 | Protein-protein Docking Using Information from Native Interaction Interfaces. , 2013, , .  |     | 0         |
| 106 | Systematic analysis of global features and model building for recognition of antimicrobial peptides. , 2013, , .   |     | 4         |
| 107 | Off-lattice protein structure prediction with homologous crossover. , 2013, , .  |     | 28        |
| 108 | Computer scientist in profile. ACM SIGBioinformatics Record, 2013, 3, 26-27.   | 0.3 | 0         |

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| 109 | Computational biologist in profile. ACM SIGBioinformatics Record, 2013, 3, 12-14.  | 0.3 | 2         |
| 110 | Menthol Binding and Inhibition of $\hat{l}\pm$ 7-Nicotinic Acetylcholine Receptors. PLoS ONE, 2013, 8, e67674.   | 1.1 | 64        |
| 111 | Modeling Structures and Motions of Loops in Protein Molecules. Entropy, 2012, 14, 252-290.   | 1.1 | 41        |
| 112 | AN EVOLUTIONARY CONSERVATION-BASED METHOD FOR REFINING AND RERANKING PROTEIN COMPLEX STRUCTURES. Journal of Bioinformatics and Computational Biology, 2012, 10, 1242002. | 0.3 | 19        |
| 113 | GUIDING PROBABILISTIC SEARCH OF THE PROTEIN CONFORMATIONAL SPACE WITH STRUCTURAL PROFILES.<br>Journal of Bioinformatics and Computational Biology, 2012, 10, 1242005.    | 0.3 | 13        |
| 114 | Biased decoy sampling to aid the selection of near-native protein conformations. , 2012, , .   |     | 3         |
| 115 | An evolutionary search framework to efficiently sample local minima in the protein conformational space. , 2012, , .   |     | Ο         |
| 116 | Jumping low, jumping high: Controlling hopping in the protein energy surface. , 2012, , .  |     | 0         |
| 117 | A population-based evolutionary algorithm for sampling minima in the protein energy surface. , 2012, , .   |     | 4         |
| 118 | A robotics-inspired method to sample conformational paths connecting known functionally-relevant structures in protein systems. , 2012, , .                              |     | 5         |
| 119 | Sampling low-energy protein-protein configurations with basin hopping. , 2012, , .   |     | 0         |
| 120 | A tree-based search to bias sampling of protein decoy conformations. , 2012, , .   |     | 0         |
| 121 | Mapping conformational pathways between known functional protein states. , 2012, , .   |     | Ο         |
| 122 | GUIDING PROTEIN DOCKING WITH GEOMETRIC AND EVOLUTIONARY INFORMATION. Journal of Bioinformatics and Computational Biology, 2012, 10, 1242008.                             | 0.3 | 11        |
| 123 | A basin hopping algorithm for protein-protein docking. , 2012, , .   |     | 5         |
| 124 | Efficient basin hopping in the protein energy surface. , 2012, , .   |     | 12        |
| 125 | Physico-chemical features for recognition of antimicrobial peptides. , 2012, , .   |     | 0         |
| 126 | An evolutionary framework to sample near-native protein conformations. , 2012, , .   |     | 0         |

An evolutionary framework to sample near-native protein conformations. , 2012, , . 126

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| 128 | Basin Hopping as a General and Versatile Optimization Framework for the Characterization of Biological Macromolecules. Advances in Artificial Intelligence, 2012, 2012, 1-19.   | 0.9 | 58        |
| 129 | An Evolutionary Algorithm Approach for Feature Generation from Sequence Data and Its Application to DNA Splice Site Prediction. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1387-1398.        | 1.9 | 29        |
| 130 | Evolutionary-inspired probabilistic search for enhancing sampling of local minima in the protein energy surface. Proteome Science, 2012, 10, S5.  | 0.7 | 34        |
| 131 | Enhancing Sampling of the Conformational Space Near the Protein Native State. Lecture Notes of the<br>Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, ,<br>249-263.             | 0.2 | 4         |
| 132 | Refinement of docked protein complex structures using evolutionary traces. , 2011, , .  |     | 5         |
| 133 | Populating Local Minima in the Protein Conformational Space. , 2011, , .  |     | 7         |
| 134 | Protein conformational search with geometric projections. , 2011, , .   |     | 0         |
| 135 | Protein docking with information on evolutionary conserved interfaces. , 2011, , .  |     | 5         |
| 136 | An evolutionary-based approach for feature generation: Eukaryotic promoter recognition. , 2011, , .   |     | 2         |
| 137 | Mapping the Protein Conformational Landscape with Adaptive Probabilistic Search. Biophysical<br>Journal, 2011, 100, 377a.   | 0.2 | 0         |
| 138 | A TWO-STAGE EVOLUTIONARY APPROACH FOR EFFECTIVE CLASSIFICATION OF HYPERSENSITIVE DNA SEQUENCES. Journal of Bioinformatics and Computational Biology, 2011, 09, 399-413.   | 0.3 | 5         |
| 139 | IN SEARCH OF THE PROTEIN NATIVE STATE WITH A PROBABILISTIC SAMPLING APPROACH. Journal of Bioinformatics and Computational Biology, 2011, 09, 383-398.   | 0.3 | 23        |
| 140 | Assembly of low-energy protein conformations with heterogeneous fragments. , 2011, , .  |     | 0         |
| 141 | THE 5TH INTERNATIONAL CONFERENCE ON BIO-INSPIRED MODELS OF NETWORK, INFORMATION AND COMPUTING SYSTEMS (BIONETICS 2010) SPECIAL TRACK ON BIOINFORMATICS. Journal of Bioinformatics and Computational Biology, 2011, 09, v-vii. | 0.3 | 0         |
| 142 | Selecting predictive features for recognition of hypersensitive sites of regulatory genomic sequences with an evolutionary algorithm. , 2010, , .   |     | 5         |
| 143 | Guiding the Search for Native-like Protein Conformations with an Ab-initio Tree-based Exploration.<br>International Journal of Robotics Research, 2010, 29, 1106-1127.  | 5.8 | 50        |
| 144 | Using sublitioners computation to improve SVM description 2010  |     | 10        |

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| 146 | Restriction versus guidance in protein structure prediction. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15302-15307.                         | 3.3 | 34        |
| 147 | Multiscale characterization of protein conformational ensembles. Proteins: Structure, Function and Bioinformatics, 2009, 76, 837-851.   | 1.5 | 63        |
| 148 | Unfolding the fold of cyclic cysteineâ€rich peptides. Protein Science, 2008, 17, 482-493.   | 3.1 | 22        |
| 149 | On the Characterization of Protein Native State Ensembles. Biophysical Journal, 2007, 92, 1503-1511.  | 0.2 | 36        |
| 150 | Sampling Conformation Space to Model Equilibrium Fluctuations in Proteins. Algorithmica, 2007, 48, 303-327.   | 1.0 | 17        |
| 151 | Modeling protein conformational ensembles: From missing loops to equilibrium fluctuations.<br>Proteins: Structure, Function and Bioinformatics, 2006, 65, 164-179.                            | 1.5 | 71        |
| 152 | A Survey of Computational Treatments of Biomolecules by Robotics-Inspired Methods Modeling<br>Equilibrium Structure and Dynamic. Journal of Artificial Intelligence Research, 0, 57, 509-572. | 7.0 | 20        |
| 153 | Connecting Molecular Energy Landscape Analysis with Markov Model-based Analysis of Equilibrium Structural Dynamics. , 0, , .  |     | 1         |