

Holger Flechsig

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

389
citations

840776

11
h-index

839539

18
g-index

23
all docs

23
docs citations

23
times ranked

355
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Simulation atomic force microscopy for atomic reconstruction of biomolecular structures from resolution-limited experimental images. PLoS Computational Biology, 2022, 18, e1009970. | 3.2 | 25 |
| 2 | Novel DNA Aptamer for CYP24A1 Inhibition with Enhanced Antiproliferative Activity in Cancer Cells. ACS Applied Materials & Interfaces, 2022, 14, 18064-18078. | 8.0 | 12 |
| 3 | An ultra-wide scanner for large-area high-speed atomic force microscopy with megapixel resolution. Scientific Reports, 2021, 11, 13003. | 3.3 | 22 |
| 4 | Allosteric communication in molecular machines via information exchange: what can be learned from dynamical modeling. Biophysical Reviews, 2020, 12, 443-452. | 3.2 | 31 |
| 5 | BioAFMviewer: An interactive interface for simulated AFM scanning of biomolecular structures and dynamics. PLoS Computational Biology, 2020, 16, e1008444. | 3.2 | 54 |
| 6 | Analyzing Fluctuation Properties in Protein Elastic Networks with Sequence-Specific and Distance-Dependent Interactions. Biomolecules, 2019, 9, 549. | 4.0 | 4 |
| 7 | Simple mechanics of protein machines. Journal of the Royal Society Interface, 2019, 16, 20190244. | 3.4 | 32 |
| 8 | Coarse-Grained Protein Dynamics Studies Using Elastic Network Models. International Journal of Molecular Sciences, 2018, 19, 3899. | 4.1 | 30 |
| 9 | Designed Elastic Networks: Models of Complex Protein Machinery. International Journal of Molecular Sciences, 2018, 19, 3152. | 4.1 | 15 |
| 10 | Deciphering Intrinsic Inter-subunit Couplings that Lead to Sequential Hydrolysis of F ₁ -ATPase Ring. Biophysical Journal, 2017, 113, 1440-1453. | 0.5 | 7 |
| 11 | Design of Elastic Networks with Evolutionary Optimized Long-Range Communication as Mechanical Models of Allosteric Proteins. Biophysical Journal, 2017, 113, 558-571. | 0.5 | 49 |
| 12 | Nucleotide-Induced Conformational Dynamics in ABC Transporters from Structure-Based Coarse Grained Modeling. Frontiers in Physics, 2016, 4, . | 2.1 | 9 |
| 13 | Non-RVD mutations that enhance the dynamics of the TAL repeat array along the superhelical axis improve TALEN genome editing efficacy. Scientific Reports, 2016, 6, 37887. | 3.3 | 9 |
| 14 | Towards synthetic molecular motors: a model elastic-network study. New Journal of Physics, 2016, 18, 043006. | 2.9 | 8 |
| 15 | 3P025 Conformational motions in protein machines: elastic-network computational studies(O1B.) Tj ETQq1 1 0.784314 rgBT /Overload | 0.1 | 0 |
| 16 | TALs from a Spring – Superelasticity of Tal Effector Protein Structures. PLoS ONE, 2014, 9, e109919. | 2.5 | 11 |
| 17 | Computational biology approach to uncover hepatitis C virus helicase operation. World Journal of Gastroenterology, 2014, 20, 3401. | 3.3 | 4 |
| 18 | In Silico Investigation of Conformational Motions in Superfamily 2 Helicase Proteins. PLoS ONE, 2011, 6, e21809. | 2.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Tracing entire operation cycles of molecular motor hepatitis C virus helicase in structurally resolved dynamical simulations. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20875-20880. | 7.1 | 45 |