

Holger Flechsig

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9567698/publications.pdf>

Version: 2024-02-01

19
papers

389
citations

840119

11
h-index

839053

18
g-index

23
all docs

23
docs citations

23
times ranked

355
citing authors

#	ARTICLE	IF	CITATIONS
1	BioAFMviewer: An interactive interface for simulated AFM scanning of biomolecular structures and dynamics. <i>PLoS Computational Biology</i> , 2020, 16, e1008444.	1.5	54
2	Design of Elastic Networks with Evolutionary Optimized Long-Range Communication as Mechanical Models of Allosteric Proteins. <i>Biophysical Journal</i> , 2017, 113, 558-571.	0.2	49
3	Tracing entire operation cycles of molecular motor hepatitis C virus helicase in structurally resolved dynamical simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20875-20880.	3.3	45
4	Simple mechanics of protein machines. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190244.	1.5	32
5	Allosteric communication in molecular machines via information exchange: what can be learned from dynamical modeling. <i>Biophysical Reviews</i> , 2020, 12, 443-452.	1.5	31
6	Coarse-Grained Protein Dynamics Studies Using Elastic Network Models. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3899.	1.8	30
7	Simulation atomic force microscopy for atomic reconstruction of biomolecular structures from resolution-limited experimental images. <i>PLoS Computational Biology</i> , 2022, 18, e1009970.	1.5	25
8	An ultra-wide scanner for large-area high-speed atomic force microscopy with megapixel resolution. <i>Scientific Reports</i> , 2021, 11, 13003.	1.6	22
9	In Silico Investigation of Conformational Motions in Superfamily 2 Helicase Proteins. <i>PLoS ONE</i> , 2011, 6, e21809.	1.1	19
10	Designed Elastic Networks: Models of Complex Protein Machinery. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3152.	1.8	15
11	Novel DNA Aptamer for CYP24A1 Inhibition with Enhanced Antiproliferative Activity in Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18064-18078.	4.0	12
12	TALEs from a Spring – Superelasticity of Tal Effector Protein Structures. <i>PLoS ONE</i> , 2014, 9, e109919.	1.1	11
13	Nucleotide-Induced Conformational Dynamics in ABC Transporters from Structure-Based Coarse Grained Modeling. <i>Frontiers in Physics</i> , 2016, 4, .	1.0	9
14	Non-RVD mutations that enhance the dynamics of the TAL repeat array along the superhelical axis improve TALEN genome editing efficacy. <i>Scientific Reports</i> , 2016, 6, 37887.	1.6	9
15	Towards synthetic molecular motors: a model elastic-network study. <i>New Journal of Physics</i> , 2016, 18, 043006.	1.2	8
16	Deciphering Intrinsic Inter-subunit Couplings that Lead to Sequential Hydrolysis of F ₁ -ATPase Ring. <i>Biophysical Journal</i> , 2017, 113, 1440-1453.	0.2	7
17	Analyzing Fluctuation Properties in Protein Elastic Networks with Sequence-Specific and Distance-Dependent Interactions. <i>Biomolecules</i> , 2019, 9, 549.	1.8	4
18	Computational biology approach to uncover hepatitis C virus helicase operation. <i>World Journal of Gastroenterology</i> , 2014, 20, 3401.	1.4	4

#	ARTICLE	IF	CITATIONS
19	3P025 Conformational motions in protein machines: elastic-network computational studies(01B.) Tj ETQq1 1 0.784314 rgBT /Overlook	0.0	0