

# 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

840776

11  
h-index

839539

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. PLoS Computational Biology, 2020, 16, e1008444.	3.2	54
2	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
3	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
4	Simple mechanics of protein machines. Journal of the Royal Society Interface, 2019, 16, 20190244.	3.4	32
5	Allosteric communication in molecular machines via information exchange: what can be learned from dynamical modeling. Biophysical Reviews, 2020, 12, 443-452.	3.2	31
6	Coarse-Grained Protein Dynamics Studies Using Elastic Network Models. International Journal of Molecular Sciences, 2018, 19, 3899.	4.1	30
7	Simulation atomic force microscopy for atomic reconstruction of biomolecular structures from resolution-limited experimental images. PLoS Computational Biology, 2022, 18, e1009970.	3.2	25
8	An ultra-wide scanner for large-area high-speed atomic force microscopy with megapixel resolution. Scientific Reports, 2021, 11, 13003.	3.3	22
9	In Silico Investigation of Conformational Motions in Superfamily 2 Helicase Proteins. PLoS ONE, 2011, 6, e21809.	2.5	19
10	Designed Elastic Networks: Models of Complex Protein Machinery. International Journal of Molecular Sciences, 2018, 19, 3152.	4.1	15
11	Novel DNA Aptamer for CYP24A1 Inhibition with Enhanced Antiproliferative Activity in Cancer Cells. ACS Applied Materials & Interfaces, 2022, 14, 18064-18078.	8.0	12
12	TALEs from a Spring – Superelasticity of Tal Effector Protein Structures. PLoS ONE, 2014, 9, e109919.	2.5	11
13	Nucleotide-Induced Conformational Dynamics in ABC Transporters from Structure-Based Coarse Grained Modeling. Frontiers in Physics, 2016, 4, .	2.1	9
14	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
15	Towards synthetic molecular motors: a model elastic-network study. New Journal of Physics, 2016, 18, 043006.	2.9	8
16	Deciphering Intrinsic Inter-subunit Couplings that Lead to Sequential Hydrolysis of F <sub>1</sub> -ATPase Ring. Biophysical Journal, 2017, 113, 1440-1453.	0.5	7
17	Analyzing Fluctuation Properties in Protein Elastic Networks with Sequence-Specific and Distance-Dependent Interactions. Biomolecules, 2019, 9, 549.	4.0	4
18	Computational biology approach to uncover hepatitis C virus helicase operation. World Journal of Gastroenterology, 2014, 20, 3401.	3.3	4

#	ARTICLE	IF	CITATIONS
19	3P025 Conformational motions in protein machines: elastic-network computational studies(01B.) Tj ETQq1 1 0.784314 rgBT /Overlook	0.1	0