

# Adam Hospital Gasch

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

2,608  
citations

331259

21  
h-index

315357

38  
g-index

40  
all docs

40  
docs citations

40  
times ranked

3582  
citing authors

#	ARTICLE	IF	CITATIONS
1	Parmbsc1: a refined force field for DNA simulations. <i>Nature Methods</i> , 2016, 13, 55-58.	9.0	790
2	Molecular dynamics simulations: advances and applications. <i>Advances and Applications in Bioinformatics and Chemistry</i> , 2015, 8, 37.	1.6	409
3	A consensus view of protein dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 796-801.	3.3	223
4	MDWeb and MDMoby: an integrated web-based platform for molecular dynamics simulations. <i>Bioinformatics</i> , 2012, 28, 1278-1279.	1.8	153
5	MoDEL (Molecular Dynamics Extended Library): A Database of Atomistic Molecular Dynamics Trajectories. <i>Structure</i> , 2010, 18, 1399-1409.	1.6	123
6	How accurate are accurate force-fields for B-DNA?. <i>Nucleic Acids Research</i> , 2017, 45, gkw1355.	6.5	107
7	Long-timescale dynamics of the Drew–Dickerson dodecamer. <i>Nucleic Acids Research</i> , 2016, 44, 4052-4066.	6.5	86
8	FlexServ: an integrated tool for the analysis of protein flexibility. <i>Bioinformatics</i> , 2009, 25, 1709-1710.	1.8	72
9	BIGNASim: a NoSQL database structure and analysis portal for nucleic acids simulation data. <i>Nucleic Acids Research</i> , 2016, 44, D272-D278.	6.5	57
10	Oncogenic mutations at the EGFR ectodomain structurally converge to remove a steric hindrance on a kinase-coupled cryptic epitope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10009-10018.	3.3	46
11	NAFlex: a web server for the study of nucleic acid flexibility. <i>Nucleic Acids Research</i> , 2013, 41, W47-W55.	6.5	45
12	The static and dynamic structural heterogeneities of B-DNA: extending Calladine–Dickerson rules. <i>Nucleic Acids Research</i> , 2019, 47, 11090-11102.	6.5	45
13	BioExcel Building Blocks, a software library for interoperable biomolecular simulation workflows. <i>Scientific Data</i> , 2019, 6, 169.	2.4	35
14	How B-DNA Dynamics Decipher Sequence-Selective Protein Recognition. <i>Journal of Molecular Biology</i> , 2019, 431, 3845-3859.	2.0	34
15	Coarse-grained Representation of Protein Flexibility. <i>Foundations, Successes, and Shortcomings. Advances in Protein Chemistry and Structural Biology</i> , 2011, 85, 183-215.	1.0	33
16	Modulation of the helical properties of DNA: next-to-nearest neighbour effects and beyond. <i>Nucleic Acids Research</i> , 2019, 47, 4418-4430.	6.5	32
17	Finding Conformational Transition Pathways from Discrete Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4707-4718.	2.3	29
18	A multi-modal coarse grained model of DNA flexibility mappable to the atomistic level. <i>Nucleic Acids Research</i> , 2020, 48, e29-e29.	6.5	27

#	ARTICLE	IF	CITATIONS
19	Exploration of conformational transition pathways from coarse-grained simulations. <i>Bioinformatics</i> , 2013, 29, 1980-1986.	1.8	26
20	Mechanism of Structural Tuning of the Hepatitis C Virus Human Cellular Receptor CD81 Large Extracellular Loop. <i>Structure</i> , 2017, 25, 53-65.	1.6	25
21	Small Details Matter: The 2'-Hydroxyl as a Conformational Switch in RNA. <i>Journal of the American Chemical Society</i> , 2016, 138, 16355-16363.	6.6	23
22	DNA structure directs positioning of the mitochondrial genome packaging protein Abf2p. <i>Nucleic Acids Research</i> , 2017, 45, 951-967.	6.5	23
23	The Role of Unconventional Hydrogen Bonds in Determining BII Propensities in B-DNA. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 21-28.	2.1	18
24	The Multiple Roles of Waters in Protein Solvation. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3636-3643.	1.2	17
25	Exploring the Conformational Landscape of Bioactive Small Molecules. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6575-6585.	2.3	17
26	Surviving the deluge of biosimulation data. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2020, 10, e1449.	6.2	16
27	Predicting the Limit of Intramolecular Hydrogen Bonding with Classical Molecular Dynamics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3759-3763.	7.2	15
28	Sequence-dependent structural properties of B-DNA: what have we learned in 40 years?. <i>Biophysical Reviews</i> , 2021, 13, 995-1005.	1.5	13
29	Nucleosome Dynamics: a new tool for the dynamic analysis of nucleosome positioning. <i>Nucleic Acids Research</i> , 2019, 47, 9511-9523.	6.5	12
30	Bioactive Conformational Ensemble Server and Database. A Public Framework to Speed Up <i>In Silico</i> Drug Discovery. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6586-6597.	2.3	10
31	Molecular Dynamics Study of Naturally Existing Cavity Couplings in Proteins. <i>PLoS ONE</i> , 2015, 10, e0119978.	1.1	10
32	BioExcel Building Blocks Workflows (BioBB-Wfs), an integrated web-based platform for biomolecular simulations. <i>Nucleic Acids Research</i> , 2022, 50, W99-W107.	6.5	7
33	High-throughput molecular dynamics simulations: toward a dynamic view of macromolecular structure. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2013, 3, 364-377.	6.2	6
34	3dRS, a Web-Based Tool to Share Interactive Representations of 3D Biomolecular Structures and Molecular Dynamics Trajectories. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 726232.	1.6	6
35	Preexascale HPC approaches for molecular dynamics simulations. Covid-19 research: A use case. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2023, 13, .	6.2	6
36	DFFR: A New Method for High-Throughput Recalibration of Automatic Force-Fields for Drugs. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6598-6608.	2.3	5

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37	Predicting the Limit of Intramolecular Hydrogen Bonding with Classical Molecular Dynamics. <i>Angewandte Chemie</i> , 2019, 131, 3799-3803.	1.6	4
38	A fast method for the determination of fractional contributions to solvation in proteins. <i>Protein Science</i> , 2006, 15, 2525-2533.	3.1	3