

# Charles H Robert

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7342036/publications.pdf>

Version: 2024-02-01

44  
papers

1,467  
citations

361413  
20  
h-index

315739  
38  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1651  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional structure of extended chromatin fibers as revealed by tapping-mode scanning force microscopy.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 11621-11625.	7.1	226
2	Community-Wide Assessment of Protein-Interface Modeling Suggests Improvements to Design Methodology. Journal of Molecular Biology, 2011, 414, 289-302.	4.2	131
3	Pore formation kinetics in membranes, determined from the release of marker molecules out of liposomes or cells. Biophysical Journal, 1990, 58, 577-583.	0.5	84
4	Oxygen binding constants for human hemoglobin tetramers. Biochemistry, 1987, 26, 3995-4002.	2.5	78
5	Nesting: hierarchies of allosteric interactions.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 1891-1895.	7.1	71
6	Allosteric interpretation of the oxygen-binding reaction of human hemoglobin tetramers. Biochemistry, 1987, 26, 4003-4008.	2.5	60
7	Normal mode analysis as a prerequisite for drug design: Application to matrix metalloproteinases inhibitors. FEBS Letters, 2006, 580, 5130-5136.	2.8	58
8	Kinetics of pore-mediated release of marker molecules from liposomes or cells. Biophysical Chemistry, 1992, 42, 291-296.	2.8	56
9	New Insights into the Allosteric Mechanism of Human Hemoglobin from Molecular Dynamics Simulations. Biophysical Journal, 2002, 82, 3224-3245.	0.5	50
10	Odorant Binding and Conformational Dynamics in the Odorant-binding Protein. Journal of Biological Chemistry, 2006, 281, 29929-29937.	3.4	46
11	How does heparin prevent the pH inactivation of cathepsin B? Allosteric mechanism elucidated by docking and molecular dynamics. BMC Genomics, 2010, 11, S5.	2.8	44
12	A combined study of aggregation, membrane affinity and pore activity of natural and modified melittin. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1069, 77-86.	2.6	43
13	A soft, mean-field potential derived from crystal contacts for predicting protein-protein interactions. Journal of Molecular Biology, 1998, 283, 1037-1047.	4.2	40
14	Nested allosteric interaction in tarantula hemocyanin revealed through the binding of oxygen and carbon monoxide. Biochemistry, 1988, 27, 6901-6908.	2.5	38
15	Quantitative analysis of linkage in macromolecules when one ligand is present in limited total quantity. Biochemistry, 1988, 27, 6829-6835.	2.5	34
16	Free Energy Profiles along Consensus Normal Modes Provide Insight into HIV-1 Protease Flap Opening. Journal of Chemical Theory and Computation, 2011, 7, 2348-2352.	5.3	32
17	Consensus modes, a robust description of protein collective motions from multiple-minima normal mode analysisâ€™ application to the HIV-1 protease. Physical Chemistry Chemical Physics, 2010, 12, 2850.	2.8	31
18	Reassessing buried surface areas in proteinâ€™protein complexes. Protein Science, 2013, 22, 1453-1457.	7.6	27

#	ARTICLE	IF	CITATIONS
19	Finding and visualizing nucleic acid base stacking. <i>Journal of Molecular Graphics</i> , 1996, 14, 6-11.	1.1	26
20	Allosteric formulation of thermal transitions in macromolecules, including effects of ligand binding and oligomerization. <i>Biopolymers</i> , 1989, 28, 1705-1729.	2.4	24
21	Changes in protein structure at the interface accompanying complex formation. <i>IUCr</i> , 2015, 2, 643-652.	2.2	21
22	Carbon dioxide and oxygen linkage in human hemoglobin tetramers. <i>Journal of Molecular Biology</i> , 1987, 196, 927-934.	4.2	20
23	Significance of bound water to local chain conformations in protein crystals.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 7600-7604.	7.1	20
24	A hierarchical "nesting" approach to describe the stability of alpha helices with side-chain interactions. <i>Biopolymers</i> , 1990, 30, 335-347.	2.4	19
25	Binding of oxygen and carbon monoxide to the hemocyanin from the spiny lobster. <i>Journal of Molecular Biology</i> , 1989, 207, 829-832.	4.2	17
26	Linkage of organic phosphates to oxygen binding in human hemoglobin at high concentrations. <i>Biochemistry</i> , 1988, 27, 6835-6843.	2.5	16
27	Analysis and parameter resolution in highly cooperative systems. <i>Biophysical Chemistry</i> , 1988, 30, 133-141.	2.8	15
28	Side-chain rotamer transitions at protein-protein interfaces. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 3219-3225.	2.6	15
29	Mobility and Core-Protein Binding Patterns of Disordered C-Terminal Tails in $\beta$ -Tubulin Isoforms. <i>Biochemistry</i> , 2017, 56, 1746-1756.	2.5	15
30	Conformational ensembles and sampled energy landscapes: Analysis and comparison. <i>Journal of Computational Chemistry</i> , 2015, 36, 1213-1231.	3.3	14
31	An Integrative Approach to the Study of Filamentous Oligomeric Assemblies, with Application to RecA. <i>PLoS ONE</i> , 2015, 10, e0116414.	2.5	14
32	Disulfide Bond Substitution by Directed Evolution in an Engineered Binding Protein. <i>ChemBioChem</i> , 2009, 10, 1349-1359.	2.6	13
33	Hybridizing rapidly exploring random trees and basin hopping yields an improved exploration of energy landscapes. <i>Journal of Computational Chemistry</i> , 2016, 37, 739-752.	3.3	12
34	New twists on an old story: hemoglobin. <i>Trends in Biochemical Sciences</i> , 1988, 13, 465-467.	7.5	11
35	Estimating friction coefficients of mixed globular/chain molecules, such as protein/DNA complexes. <i>Biophysical Journal</i> , 1995, 69, 840-848.	0.5	8
36	Integrating Three Views of Arf1 Activation Dynamics. <i>Journal of Molecular Biology</i> , 2004, 337, 969-983.	4.2	8

#	ARTICLE	IF	CITATIONS
37	Role of Nucleic Acid Binding in Sir3p-Dependent Interactions with Chromatin Fibers. <i>Biochemistry</i> , 2009, 48, 276-288.	2.5	8
38	Investigating the Structural Variability and Binding Modes of the Glioma Targeting NFL-TBS.40â€“63 Peptide on Tubulin. <i>Biochemistry</i> , 2015, 54, 3660-3669.	2.5	8
39	Analysis of zeros of binding polynomials for tetrameric hemoglobins. <i>Biophysical Chemistry</i> , 1986, 24, 295-309.	2.8	6
40	A Computational Study of a Recreated G Protein-GEF Reaction Intermediate Competent for Nucleotide Exchange: Fate of the Mg Ion. <i>PLoS ONE</i> , 2010, 5, e9142.	2.5	3
41	Building Biological Relevance Into Integrative Modelling of Macromolecular Assemblies. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 826136.	3.5	2
42	Gasâ€“solution microcalorimeter for determining heat binding curves. <i>Review of Scientific Instruments</i> , 1987, 58, 632-638.	1.3	1
43	Differential Core Histone Binding Behavior. <i>Cell Biochemistry and Biophysics</i> , 2002, 37, 01-14.	1.8	1
44	Modeling Perturbations in Protein Filaments at the Micro and Meso Scale using NAMD and PTools/Heligeom. <i>Bio-protocol</i> , 2021, 11, e4097.	0.4	1