

Carlo Camilloni

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109 papers	6,378 citations	37 h-index	79 g-index
134 ext. papers	8,075 ext. citations	6.3 avg, IF	6.44 L-index

#	Paper	IF	Citations
109	I- to d-Amino Acid Substitution in the Immunodominant LCMV-Derived Epitope gp33 Highlights the Sensitivity of the TCR Recognition Mechanism for the MHC/Peptide Structure and Dynamics.. <i>ACS Omega</i> , 2022 , 7, 9622-9635	3.9	
108	Disordered Regions Flanking the Binding Interface Modulate Affinity between CBP and NCOA. <i>Journal of Molecular Biology</i> , 2022 , 434, 167643	6.5	1
107	Refinement of β -Synuclein Ensembles Against SAXS Data: Comparison of Force Fields and Methods. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 654333	5.6	14
106	How to Determine Accurate Conformational Ensembles by Metadynamics Metainference: A Chignolin Study Case. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 694130	5.6	1
105	Converging experimental and computational views of the knotting mechanism of a small knotted protein. <i>Biophysical Journal</i> , 2021 , 120, 2276-2286	2.9	2
104	The co-existence of cold activity and thermal stability in an Antarctic GH42 β -galactosidase relies on its hexameric quaternary arrangement. <i>FEBS Journal</i> , 2021 , 288, 546-565	5.7	14
103	A kinetic ensemble of the Alzheimer's A β peptide. <i>Nature Computational Science</i> , 2021 , 1, 71-78		13
102	High Conformational Flexibility of the E2F1/DP1/DNA Complex. <i>Journal of Molecular Biology</i> , 2021 , 433, 167119	6.5	1
101	Structural Basis of Inhibition of the Pioneer Transcription Factor NF-Y by Suramin. <i>Cells</i> , 2020 , 9,	7.9	2
100	Small-molecule sequestration of amyloid- β as a drug discovery strategy for Alzheimer's disease. <i>Science Advances</i> , 2020 , 6,	14.3	28
99	Structural Insight into IAPP-Derived Amyloid Inhibitors and Their Mechanism of Action. <i>Angewandte Chemie</i> , 2020 , 132, 5820-5830	3.6	1
98	Determination of Protein Structural Ensembles by Hybrid-Resolution SAXS Restrained Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 2825-2834	6.4	20
97	Mapping the transition state for a binding reaction between ancient intrinsically disordered proteins. <i>Journal of Biological Chemistry</i> , 2020 , 295, 17698-17712	5.4	7
96	Structural Insight into IAPP-Derived Amyloid Inhibitors and Their Mechanism of Action. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5771-5781	16.4	8
95	The dynamics of linear polyubiquitin. <i>Science Advances</i> , 2020 , 6,	14.3	17
94	Conformational Stability and Dynamics in Crystals Recapitulate Protein Behavior in Solution. <i>Biophysical Journal</i> , 2020 , 119, 978-988	2.9	1
93	Biochemical and biophysical comparison of human and mouse beta-2 microglobulin reveals the molecular determinants of low amyloid propensity. <i>FEBS Journal</i> , 2020 , 287, 546-560	5.7	6

92	Cryo-EM Structures of Azospirillum brasilense Glutamate Synthase in Its Oligomeric Assemblies. <i>Journal of Molecular Biology</i> , 2019 , 431, 4523-4526	6.5	2
91	A structurally heterogeneous transition state underlies coupled binding and folding of disordered proteins. <i>Journal of Biological Chemistry</i> , 2019 , 294, 1230-1239	5.4	29
90	Cryo-EM structure of cardiac amyloid fibrils from an immunoglobulin light chain AL amyloidosis patient. <i>Nature Communications</i> , 2019 , 10, 1269	17.4	68
89	A superposition free method for protein conformational ensemble analyses and local clustering based on a differential geometry representation of backbone. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019 , 87, 302-312	4.2	5
88	Promoting transparency and reproducibility in enhanced molecular simulations. <i>Nature Methods</i> , 2019 , 16, 670-673	21.6	271
87	Martini bead form factors for nucleic acids and their application in the refinement of protein-nucleic acid complexes against SAXS data. <i>Journal of Applied Crystallography</i> , 2019 , 52, 394-402	3.8	14
86	A Practical Guide to the Simultaneous Determination of Protein Structure and Dynamics Using MetaInference. <i>Methods in Molecular Biology</i> , 2019 , 2022, 313-340	1.4	3
85	Conformational dynamics in crystals reveal the molecular bases for D76N beta-2 microglobulin aggregation propensity. <i>Nature Communications</i> , 2018 , 9, 1658	17.4	35
84	Determination of the conformational states of strychnine in solution using NMR residual dipolar couplings in a tensor-free approach. <i>Methods</i> , 2018 , 148, 4-8	4.6	7
83	Folding Mechanism of the SH3 Domain from Grb2. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 11166-11173	3.4	6
82	MobiDB 3.0: more annotations for intrinsic disorder, conformational diversity and interactions in proteins. <i>Nucleic Acids Research</i> , 2018 , 46, D471-D476	20.1	143
81	Molecular dynamics ensemble refinement of the heterogeneous native state of NCBD using chemical shifts and NOEs. <i>PeerJ</i> , 2018 , 6, e5125	3.1	16
80	The Antibody Light-Chain Linker Regulates Domain Orientation and Amyloidogenicity. <i>Journal of Molecular Biology</i> , 2018 , 430, 4925-4940	6.5	15
79	Advanced simulation techniques for the thermodynamic and kinetic characterization of biological systems. <i>Advances in Physics: X</i> , 2018 , 3, 1477531	5.1	20
78	Systematic mapping of free energy landscapes of a growing filamin domain during biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9744-9749	11.5	26
77	An implementation of the maximum-caliber principle by replica-averaged time-resolved restrained simulations. <i>Journal of Chemical Physics</i> , 2018 , 148, 184114	3.9	10
76	A method for partitioning the information contained in a protein sequence between its structure and function. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86, 956-964	4.2	2
75	Structural basis for terminal loop recognition and stimulation of pri-miRNA-18a processing by hnRNP A1. <i>Nature Communications</i> , 2018 , 9, 2479	17.4	41

74	Principles of protein structural ensemble determination. <i>Current Opinion in Structural Biology</i> , 2017 , 42, 106-116	8.1	196
73	Networks of Dynamic Allostery Regulate Enzyme Function. <i>Structure</i> , 2017 , 25, 276-286	5.2	45
72	Structural Characterization of the Early Events in the Nucleation-Condensation Mechanism in a Protein Folding Process. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6899-6910	16.4	15
71	Metadynamic metainference: Convergence towards force field independent structural ensembles of a disordered peptide. <i>Journal of Chemical Physics</i> , 2017 , 146, 165102	3.9	35
70	Simultaneous quantification of protein order and disorder. <i>Nature Chemical Biology</i> , 2017 , 13, 339-342	11.7	83
69	Simultaneous NMR characterisation of multiple minima in the free energy landscape of an RNA UUCG tetraloop. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2797-2804	3.6	13
68	Emergence and evolution of an interaction between intrinsically disordered proteins. <i>ELife</i> , 2017 , 6,	8.9	28
67	Integrative structural and dynamical biology with PLUMED-ISDB. <i>Bioinformatics</i> , 2017 , 33, 3999-4000	7.2	41
66	Sequence Specificity in the Entropy-Driven Binding of a Small Molecule and a Disordered Peptide. <i>Journal of Molecular Biology</i> , 2017 , 429, 2772-2779	6.5	38
65	The PHR Family: The Role of Extracellular Transglycosylases in Shaping <i>Candida albicans</i> Cells. <i>Journal of Fungi (Basel, Switzerland)</i> , 2017 , 3,	5.6	13
64	Stabilization and structural analysis of a membrane-associated hIAPP aggregation intermediate. <i>ELife</i> , 2017 , 6,	8.9	47
63	Molecular Recognition by Templated Folding of an Intrinsically Disordered Protein. <i>Scientific Reports</i> , 2016 , 6, 21994	4.9	77
62	Metadynamic metainference: Enhanced sampling of the metainference ensemble using metadynamics. <i>Scientific Reports</i> , 2016 , 6, 31232	4.9	52
61	Structure of a low-population binding intermediate in protein-RNA recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7171-6	11.5	46
60	Metainference: A Bayesian inference method for heterogeneous systems. <i>Science Advances</i> , 2016 , 2, e1501177	14.3	110
59	A structural ensemble of a ribosome-nascent chain complex during cotranslational protein folding. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 278-285	17.6	96
58	Structural Insights into the Calcium-Mediated Allosteric Transition in the C-Terminal Domain of Calmodulin from Nuclear Magnetic Resonance Measurements. <i>Biochemistry</i> , 2016 , 55, 19-28	3.2	6
57	Rational design of mutations that change the aggregation rate of a protein while maintaining its native structure and stability. <i>Scientific Reports</i> , 2016 , 6, 25559	4.9	41

56	Towards a structural biology of the hydrophobic effect in protein folding. <i>Scientific Reports</i> , 2016 , 6, 28285	4.9	62
55	Properties of low-dimensional collective variables in the molecular dynamics of biopolymers. <i>Physical Review E</i> , 2016 , 94, 052406	2.4	2
54	Structural characterization of the interaction of β -synuclein nascent chains with the ribosomal surface and trigger factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5012-7	11.5	40
53	Identification and Structural Characterization of an Intermediate in the Folding of the Measles Virus X Domain. <i>Journal of Biological Chemistry</i> , 2016 , 291, 10886-92	5.4	15
52	Reply to Comment on A Tensor-Free Method for the Structural and Dynamic Refinement of Proteins using Residual Dipolar Couplings <i>Journal of Physical Chemistry B</i> , 2015 , 119, 8225-8226	3.4	5
51	Structure and dynamics of the integrin LFA-1 I-domain in the inactive state underlie its inside-out/outside-in signaling and allosteric mechanisms. <i>Structure</i> , 2015 , 23, 745-53	5.2	15
50	Structure and Dynamics of GeoCyp: A Thermophilic Cyclophilin with a Novel Substrate Binding Mechanism That Functions Efficiently at Low Temperatures. <i>Biochemistry</i> , 2015 , 54, 3207-17	3.2	13
49	The s2D method: simultaneous sequence-based prediction of the statistical populations of ordered and disordered regions in proteins. <i>Journal of Molecular Biology</i> , 2015 , 427, 982-996	6.5	60
48	The inverted free energy landscape of an intrinsically disordered peptide by simulations and experiments. <i>Scientific Reports</i> , 2015 , 5, 15449	4.9	84
47	Mapping the Protein Fold Universe Using the CamTube Force Field in Molecular Dynamics Simulations. <i>PLoS Computational Biology</i> , 2015 , 11, e1004435	5	14
46	Dynamic binding mode of a Synaptotagmin-1-SNARE complex in solution. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 555-64	17.6	99
45	Using Pseudocontact Shifts and Residual Dipolar Couplings as Exact NMR Restraints for the Determination of Protein Structural Ensembles. <i>Biochemistry</i> , 2015 , 54, 7470-6	3.2	16
44	A tensor-free method for the structural and dynamical refinement of proteins using residual dipolar couplings. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 653-61	3.4	43
43	The H50Q mutation induces a 10-fold decrease in the solubility of β -synuclein. <i>Journal of Biological Chemistry</i> , 2015 , 290, 2395-404	5.4	51
42	New opportunities for tensor-free calculations of residual dipolar couplings for the study of protein dynamics. <i>Journal of Biomolecular NMR</i> , 2014 , 58, 233-8	3	6
41	Conformational recognition of an intrinsically disordered protein. <i>Biophysical Journal</i> , 2014 , 106, 1771-9	2.9	40
40	ALMOST: an all atom molecular simulation toolkit for protein structure determination. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1101-5	3.5	28
39	PLUMED 2: New feathers for an old bird. <i>Computer Physics Communications</i> , 2014 , 185, 604-613	4.2	1470

38	A conformational ensemble derived using NMR methyl chemical shifts reveals a mechanical clamping transition that gates the binding of the HU protein to DNA. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2204-7	16.4	17
37	NMR characterization of the conformational fluctuations of the human lymphocyte function-associated antigen-1 I-domain. <i>Protein Science</i> , 2014 , 23, 1596-606	6.3	7
36	Understanding the frustration arising from the competition between function, misfolding, and aggregation in a globular protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14141-6	11.5	36
35	Sampling the Denatured State of Polypeptides in Water, Urea, and Guanidine Chloride to Strict Equilibrium Conditions with the Help of Massively Parallel Computers. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 846-54	6.4	5
34	Cyclophilin A catalyzes proline isomerization by an electrostatic handle mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10203-8	11.5	49
33	MD Simulations of Intrinsically Disordered Proteins with Replica-Averaged Chemical Shift Restraints. <i>Biophysical Journal</i> , 2014 , 106, 481a	2.9	3
32	Statistical mechanics of the denatured state of a protein using replica-averaged metadynamics. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8982-91	16.4	53
31	Archaeal MBF1 binds to 30S and 70S ribosomes via its helix-turn-helix domain. <i>Biochemical Journal</i> , 2014 , 462, 373-84	3.8	10
30	The dynamics of interleukin-8 and its interaction with human CXCR1 peptide. <i>Protein Science</i> , 2014 , 23, 464-80	6.3	16
29	Determination of the individual roles of the linker residues in the interdomain motions of calmodulin using NMR chemical shifts. <i>Journal of Molecular Biology</i> , 2014 , 426, 1826-38	6.5	21
28	Structural investigation of the folding of an immunoglobulin domain on the ribosome using NMR Spectroscopy (LB197). <i>FASEB Journal</i> , 2014 , 28, LB197	0.9	
27	A relationship between the aggregation rates of β -synuclein variants and the β -sheet populations in their monomeric forms. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10737-41	3.4	13
26	Assessment of the use of NMR chemical shifts as replica-averaged structural restraints in molecular dynamics simulations to characterize the dynamics of proteins. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1838-43	3.4	36
25	Molecular dynamics simulations with replica-averaged structural restraints generate structural ensembles according to the maximum entropy principle. <i>Journal of Chemical Physics</i> , 2013 , 138, 094112	3.9	143
24	Replica-Averaged Metadynamics. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 5610-7	6.4	57
23	Characterization of the free-energy landscapes of proteins by NMR-guided metadynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6817-22	11.5	112
22	In-cell NMR characterization of the secondary structure populations of a disordered conformation of β -synuclein within E. coli cells. <i>PLoS ONE</i> , 2013 , 8, e72286	3.7	70
21	Determination of secondary structure populations in disordered states of proteins using nuclear magnetic resonance chemical shifts. <i>Biochemistry</i> , 2012 , 51, 2224-31	3.2	258

20	Characterization of the conformational equilibrium between the two major substates of RNase A using NMR chemical shifts. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3968-71	16.4	75
19	A highly compliant protein native state with a spontaneous-like mechanical unfolding pathway. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17068-75	16.4	24
18	Energy landscape of the prion protein helix 1 probed by metadynamics and NMR. <i>Biophysical Journal</i> , 2012 , 102, 158-67	2.9	34
17	From A to B: a ride in the free energy surfaces of protein G domains suggests how new folds arise. <i>Journal of Chemical Physics</i> , 2012 , 136, 185101	3.9	8
16	Ratcheted molecular-dynamics simulations identify efficiently the transition state of protein folding. <i>Journal of Chemical Physics</i> , 2012 , 137, 235101	3.9	12
15	Hierarchy of folding and unfolding events of protein G, CI2, and ACBP from explicit-solvent simulations. <i>Journal of Chemical Physics</i> , 2011 , 134, 045105	3.9	34
14	Identification of the folding inhibitors of hen-egg lysozyme: gathering the right tools. <i>European Biophysics Journal</i> , 2010 , 39, 911-9	1.9	2
13	Lymphotactin: how a protein can adopt two folds. <i>Journal of Chemical Physics</i> , 2009 , 131, 245105	3.9	16
12	PLUMED: A portable plugin for free-energy calculations with molecular dynamics. <i>Computer Physics Communications</i> , 2009 , 180, 1961-1972	4.2	1087
11	Urea and guanidinium chloride denature protein L in different ways in molecular dynamics simulations. <i>Biophysical Journal</i> , 2008 , 94, 4654-61	2.9	129
10	Atomistic simulations of the HIV-1 protease folding inhibition. <i>Biophysical Journal</i> , 2008 , 95, 550-62	2.9	9
9	Metadynamic sampling of the free-energy landscapes of proteins coupled with a Monte Carlo algorithm. <i>Gene</i> , 2008 , 422, 37-40	3.8	3
8	Comparison of successive transition states for folding reveals alternative early folding pathways of two homologous proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19241-6	11.5	52
7	Exploring the protein G helix free-energy surface by solute tempering metadynamics. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 71, 1647-54	4.2	56
6	Early events in protein folding: Is there something more than hydrophobic burst?. <i>Protein Science</i> , 2008 , 17, 1424-33	6.3	14
5	Optical absorption of a green fluorescent protein variant: environment effects in a density functional study. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 10807-12	3.4	5
4	Structural basis for terminal loop recognition and processing of pri-miRNA-18a by hnRNP A1		1
3	A kinetic ensemble of the Alzheimer's A β peptide		2

2	Small molecule sequestration of amyloid- β as a drug discovery strategy for Alzheimer's disease	4
1	Refinement of β -synuclein ensembles against SAXS data: Comparison of force fields and methods	1