

Alessandra Corazza

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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.

85 papers	2,117 citations	25 h-index	43 g-index
86 ext. papers	2,349 ext. citations	4.6 avg, IF	4.1 L-index

#	Paper	IF	Citations
85	Interaction of copper with cysteine: stability of cuprous complexes and catalytic role of cupric ions in anaerobic thiol oxidation. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1495-501	4.2	148
84	The solution structure of human beta2-microglobulin reveals the prodromes of its amyloid transition. <i>Protein Science</i> , 2002 , 11, 487-99	6.3	132
83	Collagen plays an active role in the aggregation of beta2-microglobulin under physiopathological conditions of dialysis-related amyloidosis. <i>Journal of Biological Chemistry</i> , 2006 , 281, 16521-9	5.4	122
82	¹ H, ¹³ C-NMR and X-ray absorption studies of copper(I) glutathione complexes. <i>FEBS Journal</i> , 1996 , 236, 697-705		104
81	Effect of tetracyclines on the dynamics of formation and destructure of beta2-microglobulin amyloid fibrils. <i>Journal of Biological Chemistry</i> , 2011 , 286, 2121-31	5.4	77
80	The controlling roles of Trp60 and Trp95 in beta2-microglobulin function, folding and amyloid aggregation properties. <i>Journal of Molecular Biology</i> , 2008 , 378, 887-97	6.5	76
79	Probing the influence of citrate-capped gold nanoparticles on an amyloidogenic protein. <i>ACS Nano</i> , 2015 , 9, 2600-13	16.7	68
78	Structure, folding dynamics, and amyloidogenesis of D76N β -microglobulin: roles of shear flow, hydrophobic surfaces, and β -crystallin. <i>Journal of Biological Chemistry</i> , 2013 , 288, 30917-30	5.4	63
77	Carnosine inhibits A β (42) aggregation by perturbing the H-bond network in and around the central hydrophobic cluster. <i>ChemBioChem</i> , 2013 , 14, 583-92	3.8	61
76	Properties of some variants of human beta2-microglobulin and amyloidogenesis. <i>Journal of Biological Chemistry</i> , 2004 , 279, 9176-89	5.4	59
75	Platination of a GG site on single-stranded and double-stranded forms of a 14-base oligonucleotide with diaqua cisplatin followed by NMR and HPLC -- influence of the platinum ligands and base sequence on 5VG versus 3VG platination selectivity. <i>FEBS Journal</i> , 1997 , 249, 370-82		55
74	Blues server: electrostatic properties of wild-type and mutated protein structures. <i>Bioinformatics</i> , 2012 , 28, 2189-90	7.2	54
73	Native-unlike long-lived intermediates along the folding pathway of the amyloidogenic protein beta2-microglobulin revealed by real-time two-dimensional NMR. <i>Journal of Biological Chemistry</i> , 2010 , 285, 5827-35	5.4	53
72	Beta2-microglobulin isoforms display an heterogeneous affinity for type I collagen. <i>Protein Science</i> , 2005 , 14, 696-702	6.3	49
71	Blues: a program for the analysis of the electrostatic properties of proteins based on generalized Born radii. <i>BMC Bioinformatics</i> , 2012 , 13 Suppl 4, S18	3.6	43
70	Plasminogen activation triggers transthyretin amyloidogenesis. <i>Journal of Biological Chemistry</i> , 2018 , 293, 14192-14199	5.4	42
69	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

68	Molecular dynamics simulation suggests possible interaction patterns at early steps of beta2-microglobulin aggregation. <i>Biophysical Journal</i> , 2007 , 92, 1673-81	2.9	38
67	Structure, conformational stability, and enzymatic properties of acylphosphatase from the hyperthermophile <i>Sulfolobus solfataricus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 62, 64-79 ²	4.2	37
66	beta2-microglobulin H31Y variant 3D structure highlights the protein natural propensity towards intermolecular aggregation. <i>Journal of Molecular Biology</i> , 2004 , 335, 1051-64	6.5	35
65	Folding and fibrillogenesis: clues from beta2-microglobulin. <i>Journal of Molecular Biology</i> , 2010 , 401, 286-93	6.3	33
64	Monitoring the interaction between β -microglobulin and the molecular chaperone B-crystallin by NMR and mass spectrometry: B-crystallin dissociates β -microglobulin oligomers. <i>Journal of Biological Chemistry</i> , 2013 , 288, 17844-58	5.4	29
63	Molecular dynamics simulation of β -microglobulin in denaturing and stabilizing conditions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011 , 79, 986-1001	4.2	29
62	Oligomeric states along the folding pathways of β -microglobulin: kinetics, thermodynamics, and structure. <i>Journal of Molecular Biology</i> , 2013 , 425, 2722-36	6.5	27
61	Inhibition of the mechano-enzymatic amyloidogenesis of transthyretin: role of ligand affinity, binding cooperativity and occupancy of the inner channel. <i>Scientific Reports</i> , 2017 , 7, 182	4.9	25
60	Citrate stabilized gold nanoparticles interfere with amyloid fibril formation: D76N and N6 β -microglobulin variants. <i>Nanoscale</i> , 2018 , 10, 4793-4806	7.7	25
59	Rapid oligomer formation of human muscle acylphosphatase induced by heparan sulfate. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 547-54, S1-2	17.6	25
58	The solution structure of EMILIN1 globular C1q domain reveals a disordered insertion necessary for interaction with the α 4 β 1 integrin. <i>Journal of Biological Chemistry</i> , 2008 , 283, 18947-56	5.4	25
57	Electrostatic compared with hydrophobic interactions between bovine serum amine oxidase and its substrates. <i>Biochemical Journal</i> , 2003 , 371, 549-56	3.8	25
56	Distance-Based Configurational Entropy of Proteins from Molecular Dynamics Simulations. <i>PLoS ONE</i> , 2015 , 10, e0132356	3.7	24
55	Citrate-stabilized gold nanoparticles hinder fibrillogenesis of a pathological variant of β -microglobulin. <i>Nanoscale</i> , 2017 , 9, 3941-3951	7.7	22
54	Solution structure of beta(2)-microglobulin and insights into fibrillogenesis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005 , 1753, 76-84	4	22
53	Structural and dynamics characteristics of acylphosphatase from <i>Sulfolobus solfataricus</i> in the monomeric state and in the initial native-like aggregates. <i>Journal of Biological Chemistry</i> , 2010 , 285, 14689-700 ²⁰	5.4	20
52	Scoring predictive models using a reduced representation of proteins: model and energy definition. <i>BMC Structural Biology</i> , 2007 , 7, 15	2.7	20
51	Variants of beta-microglobulin cleaved at lysine-58 retain the main conformational features of the native protein but are more conformationally heterogeneous and unstable at physiological temperature. <i>FEBS Journal</i> , 2006 , 273, 2461-74	5.7	19

50	Structural and folding dynamic properties of the T70N variant of human lysozyme. <i>Journal of Biological Chemistry</i> , 2003 , 278, 25910-8	5.4	19
49	Free Energy, Enthalpy and Entropy from Implicit Solvent End-Point Simulations. <i>Frontiers in Molecular Biosciences</i> , 2018 , 5, 11	5.6	18
48	Equilibrium unfolding thermodynamics of beta2-microglobulin analyzed through native-state H/D exchange. <i>Biophysical Journal</i> , 2009 , 96, 169-79	2.9	18
47	The solution structure of DNA-free Pax-8 paired box domain accounts for redox regulation of transcriptional activity in the pax protein family. <i>Journal of Biological Chemistry</i> , 2008 , 283, 33321-8	5.4	18
46	Binding of Monovalent and Bivalent Ligands by Transthyretin Causes Different Short- and Long-Distance Conformational Changes. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 8274-8283	8.3	17
45	Absolute Quantification of Choline-Related Biomarkers in Breast Cancer Biopsies by Liquid Chromatography Electrospray Ionization Mass Spectrometry. <i>Analytical Cellular Pathology</i> , 2013 , 36, 71-83	3.4	16
44	Accurate Estimation of the Entropy of Rotation-Translation Probability Distributions. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 1-8	6.4	14
43	Molecular models for intrastrand DNA G-quadruplexes. <i>BMC Structural Biology</i> , 2009 , 9, 64	2.7	14
42	Structural transitions of a GG-platinated DNA duplex induced by pH, temperature and box A of high-mobility-group protein 1. <i>FEBS Journal</i> , 1997 , 243, 782-91		14
41	NMR solution structure of the acylphosphatase from Escherichia coli. <i>Journal of Biomolecular NMR</i> , 2006 , 36, 199-204	3	13
40	Computational design of cyclic peptides for the customized oriented immobilization of globular proteins. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2740-2748	3.6	12
39	A specific nanobody prevents amyloidogenesis of D76N β -microglobulin in vitro and modifies its tissue distribution in vivo. <i>Scientific Reports</i> , 2017 , 7, 46711	4.9	12
38	PDB2ENTROPY and PDB2TRENT: Conformational and Translational-Rotational Entropy from Molecular Ensembles. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 1319-1324	6.1	12
37	Studying interactions by molecular dynamics simulations at high concentration. <i>Journal of Biomedicine and Biotechnology</i> , 2012 , 2012, 303190		12
36	Absolute quantification of choline-related biomarkers in breast cancer biopsies by liquid chromatography electrospray ionization mass spectrometry. <i>Analytical Cellular Pathology</i> , 2013 , 36, 71-83	3.4	12
35	Interference of citrate-stabilized gold nanoparticles with β -microglobulin oligomeric association. <i>Chemical Communications</i> , 2018 , 54, 5422-5425	5.8	11
34	Effect of phosphate ion on the activity of bovine plasma amine oxidase. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 189, 722-7	3.4	11
33	Binding of cations of group IA and IIA to bovine serum amine oxidase: effect on the activity. <i>Biophysical Journal</i> , 2002 , 83, 2231-9	2.9	10

32	Determining the energy landscape of proteins by a fast isotope exchange NMR approach. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4457-60	16.4	9
31	Reduction of conformational mobility and aggregation in W60G β -microglobulin: assessment by ^{15}N NMR relaxation. <i>Magnetic Resonance in Chemistry</i> , 2013 , 51, 795-807	2.1	9
30	Conformational stability of neuroglobin helix F--possible effects on the folding pathway within the globin family. <i>FEBS Journal</i> , 2009 , 276, 5177-90	5.7	8
29	High-performance metabolic marker assessment in breast cancer tissue by mass spectrometry. <i>Clinical Chemistry and Laboratory Medicine</i> , 2011 , 49, 317-24	5.9	8
28	Comparative study of the stabilities of synthetic and natural transthyretin amyloid fibrils. <i>Journal of Biological Chemistry</i> , 2020 , 295, 11379-11387	5.4	8
27	Single-shot NMR measurement of protein unfolding landscapes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012 , 1824, 842-9	4	7
26	NMR-based homology model for the solution structure of the C-terminal globular domain of EMILIN1. <i>Journal of Biomolecular NMR</i> , 2009 , 43, 79-96	3	7
25	Helix mobility and recognition function of the rat thyroid transcription factor 1 homeodomain - hints from ^{15}N -NMR relaxation studies. <i>FEBS Journal</i> , 2008 , 275, 435-48	5.7	7
24	Enzyme mimics complexing Cu(II) ion: structure-function relationships. <i>Chemical Biology and Drug Design</i> , 1999 , 54, 491-504		7
23	Pathological self-aggregation of β -microglobulin: a challenge for protein biophysics. <i>Sub-Cellular Biochemistry</i> , 2012 , 65, 165-83	5.5	6
22	Accuracy assessment of the linear Poisson-Boltzmann equation and reparametrization of the OBC generalized Born model for nucleic acids and nucleic acid-protein complexes. <i>Journal of Computational Chemistry</i> , 2015 , 36, 585-96	3.5	5
21	Assessment of pretransplantation warm ischemia time by phosphorus-31 magnetic resonance spectroscopy in pig kidneys. <i>Transplantation Proceedings</i> , 1997 , 29, 3415-6	1.1	5
20	Effect of polyphosphates on the activity of amine oxidases. <i>BBA - Proteins and Proteomics</i> , 1995 , 1247, 246-52		5
19	Dynamics and Thermodynamics of Transthyretin Association from Molecular Dynamics Simulations. <i>BioMed Research International</i> , 2018 , 2018, 7480749	3	5
18	Molecular dynamics simulations of β -microglobulin interaction with hydrophobic surfaces. <i>Molecular BioSystems</i> , 2017 , 13, 2625-2637		4
17	Fast structure similarity searches among protein models: efficient clustering of protein fragments. <i>Algorithms for Molecular Biology</i> , 2012 , 7, 16	1.8	4
16	Generalized Born forces: surface integral formulation. <i>Journal of Chemical Physics</i> , 2013 , 138, 054112	3.9	4
15	Sequence-specific backbone NMR assignments for the C-terminal globular domain of EMILIN-1. <i>Journal of Biomolecular NMR</i> , 2004 , 29, 91-2	3	4

14	Automation of peak-tracking analysis of stepwise perturbed NMR spectra. <i>Journal of Biomolecular NMR</i> , 2017 , 67, 121-134	3	3
13	Short-Chain Alkanethiol Coating for Small-Size Gold Nanoparticles Supporting Protein Stability. <i>Magnetochemistry</i> , 2017 , 3, 40	3.1	3
12	Biphasic behavior of the kinetics of ³¹ P-containing metabolites in ischemic porcine kidneys. <i>Transplantation Proceedings</i> , 2003 , 35, 3111-5	1.1	3
11	Deuterium nuclear magnetic resonance for evaluating the metabolic status of livers subjected to warm ischemia. <i>Transplantation</i> , 2001 , 71, 1515-7	1.8	3
10	Improved method for pulse width calibration in indirectly detected experiments. <i>Magnetic Resonance in Chemistry</i> , 2001 , 39, 249-250	2.1	3
9	Protein Aggregation Measurement through Electrical Impedance Spectroscopy. <i>Journal of Physics: Conference Series</i> , 2013 , 459, 012049	0.3	2
8	Estimation of 3JHN-Halpha and 3JHalpha-Hbeta coupling constants from heteronuclear TOCSY spectra. <i>Journal of Biomolecular NMR</i> , 2007 , 39, 213-22	3	2
7	Amyloid Formation by Globular Proteins: The Need to Narrow the Gap Between and Mechanisms.. <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 830006	5.6	2
6	A differential equation for the Generalized Born radii. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9783-91	3.91	1
5	Interactions between polyamines and nucleotides studied by ³¹ P and ¹ H NMR. <i>Applied Magnetic Resonance</i> , 1994 , 7, 89-94	0.8	1
4	Clinical ApoA-IV amyloid is associated with fibrillogenic signal sequence. <i>Journal of Pathology</i> , 2021 , 255, 311-318	9.4	1
3	Insights on peptide topology in the computational design of protein ligands: the example of lysozyme binding peptides. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23158-23172	3.6	0
2	H, C and N backbone resonance assignments of the β -lactamase BlaP from <i>Bacillus licheniformis</i> 749/C and two mutational variants. <i>Biomolecular NMR Assignments</i> , 2018 , 12, 69-77	0.7	
1	The Accuracy of Generalized Born Forces 2015 , 143-155		