

Stefano Ricagno

List of Publications by Year in descending order

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66
papers

2,364
citations

218677

26
h-index

223800

46
g-index

75
all docs

75
docs citations

75
times ranked

2991
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Proton-Detected NMR Assignment for Proteins with Fast Magic Angle Spinning. <i>Journal of the American Chemical Society</i> , 2014, 136, 12489-12497.	13.7	254
2	Hereditary Systemic Amyloidosis Due to Asp76Asn Variant β_2 -Microglobulin. <i>New England Journal of Medicine</i> , 2012, 366, 2276-2283.	27.0	172
3	Crystal structure and mechanistic determinants of SARS coronavirus nonstructural protein 15 define an endoribonuclease family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11892-11897.	7.1	161
4	The enzymes of oxalate metabolism: unexpected structures and mechanisms. <i>Archives of Biochemistry and Biophysics</i> , 2005, 433, 176-192.	3.0	141
5	Cryo-EM structure of cardiac amyloid fibrils from an immunoglobulin light chain AL amyloidosis patient. <i>Nature Communications</i> , 2019, 10, 1269.	12.8	113
6	The Controlling Roles of Trp60 and Trp95 in β_2 -Microglobulin Function, Folding and Amyloid Aggregation Properties. <i>Journal of Molecular Biology</i> , 2008, 378, 887-897.	4.2	82
7	Recognition of RNA Cap in the Wesselsbron Virus NS5 Methyltransferase Domain: Implications for RNA-Capping Mechanisms in Flavivirus. <i>Journal of Molecular Biology</i> , 2009, 385, 140-152.	4.2	78
8	Crystal structure of thiamindiphosphate-dependent indolepyruvate decarboxylase from <i>Enterobacter cloacae</i> , an enzyme involved in the biosynthesis of the plant hormone indole-3-acetic acid. <i>FEBS Journal</i> , 2003, 270, 2312-2321.	0.2	65
9	Crystal Structure of the Receptor-Binding Protein Head Domain from <i>Lactococcus lactis</i> Phage bIL170. <i>Journal of Virology</i> , 2006, 80, 9331-9335.	3.4	62
10	De Novo Initiation of RNA Synthesis by the Arterivirus RNA-Dependent RNA Polymerase. <i>Journal of Virology</i> , 2007, 81, 8384-8395.	3.4	60
11	DcE2F, a Functional Plant E2F-like Transcriptional Activator from <i>Daucus carota</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 19258-19267.	3.4	58
12	Conformational dynamics in crystals reveal the molecular bases for D76N beta-2 microglobulin aggregation propensity. <i>Nature Communications</i> , 2018, 9, 1658.	12.8	53
13	Crystal Structure of the Productive Ternary Complex of Dihydropyrimidine Dehydrogenase with NADPH and 5-Iodouracil. <i>Journal of Biological Chemistry</i> , 2002, 277, 13155-13166.	3.4	51
14	Kinetic and Mechanistic Characterization of the Formyl-CoA Transferase from <i>Oxalobacter formigenes</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 36003-36012.	3.4	51
15	Concurrent structural and biophysical traits link with immunoglobulin light chains amyloid propensity. <i>Scientific Reports</i> , 2017, 7, 16809.	3.3	50
16	β_2 -microglobulin triggers NLRP3 inflammasome activation in tumor-associated macrophages to promote multiple myeloma progression. <i>Immunity</i> , 2021, 54, 1772-1787.e9.	14.3	49
17	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.	3.3	47
18	Formyl-CoA transferase encloses the CoA binding site at the interface of an interlocked dimer. <i>EMBO Journal</i> , 2003, 22, 3210-3219.	7.8	45

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19	DE loop mutations affect β 2 microglobulin stability, oligomerization, and the low pH unfolded form. <i>Protein Science</i> , 2010, 19, 1386-1394.	7.6	43
20	Human Neuroserpin: Structure and Time-Dependent Inhibition. <i>Journal of Molecular Biology</i> , 2009, 388, 109-121.	4.2	41
21	DE loop mutations affect β 2-microglobulin stability and amyloid aggregation. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 146-150.	2.1	36
22	Crystal structure of 1-deoxy-d-xylulose-5-phosphate reductoisomerase from <i>Zymomonas mobilis</i> at 1.9-Å... resolution. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1698, 37-44.	2.3	34
23	Fibrillar vs Crystalline Full-Length β 2-Microglobulin Studied by High-Resolution Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 5556-5557.	13.7	32
24	Mass spectrometry characterization of light chain fragmentation sites in cardiac AL amyloidosis: insights into the timing of proteolysis. <i>Journal of Biological Chemistry</i> , 2020, 295, 16572-16584.	3.4	32
25	Structure, Stability, and Aggregation of β 2-Microglobulin Mutants: Insights from a Fourier Transform Infrared Study in Solution and in the Crystalline State. <i>Biophysical Journal</i> , 2012, 102, 1676-1684.	0.5	31
26	Human beta-2 microglobulin W60V mutant structure: Implications for stability and amyloid aggregation. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 543-547.	2.1	29
27	The Tempered Polymerization of Human Neuroserpin. <i>PLoS ONE</i> , 2012, 7, e32444.	2.5	28
28	Inherent Biophysical Properties Modulate the Toxicity of Soluble Amyloidogenic Light Chains. <i>Journal of Molecular Biology</i> , 2020, 432, 845-860.	4.2	26
29	Protease-sensitive regions in amyloid light chains: what a common pattern of fragmentation across organs suggests about aggregation. <i>FEBS Journal</i> , 2022, 289, 494-506.	4.7	25
30	Class I Major Histocompatibility Complex, the Trojan Horse for Secretion of Amyloidogenic β 2-Microglobulin. <i>Journal of Biological Chemistry</i> , 2014, 289, 3318-3327.	3.4	22
31	Decoding the Structural Bases of D76N β 2-Microglobulin High Amyloidogenicity through Crystallography and Asn-Scan Mutagenesis. <i>PLoS ONE</i> , 2015, 10, e0144061.	2.5	22
32	CtBP1/BARS Gly172 \rightarrow Glu mutant structure: Impairing NAD(H)-binding and dimerization. <i>Biochemical and Biophysical Research Communications</i> , 2009, 381, 70-74.	2.1	21
33	On the molecular structure of human neuroserpin polymers. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 8-13.	2.6	21
34	Two Latent and Two Hyperstable Polymeric Forms of Human Neuroserpin. <i>Biophysical Journal</i> , 2010, 99, 3402-3411.	0.5	20
35	A recurrent β -strand association interface is observed in β 2 microglobulin oligomers. <i>FEBS Journal</i> , 2012, 279, 1131-1143.	4.7	18
36	The crystal structure of FdxA, a 7Fe ferredoxin from <i>Mycobacterium smegmatis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2007, 360, 97-102.	2.1	16

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37	The two tryptophans of β 2-microglobulin have distinct roles in function and folding and might represent two independent responses to evolutionary pressure. <i>BMC Evolutionary Biology</i> , 2011, 11, 159.	3.2	16
38	Neuroserpin: structure, function, physiology and pathology. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 6409-6430.	5.4	16
39	Wild Type Beta-2 Microglobulin and DE Loop Mutants Display a Common Fibrillar Architecture. <i>PLoS ONE</i> , 2015, 10, e0122449.	2.5	14
40	D α -strand perturbation and amyloid propensity in beta α 2 microglobulin. <i>FEBS Journal</i> , 2011, 278, 2349-2358.	4.7	13
41	Characterization of β 2 α -microglobulin conformational intermediates associated to different fibrillation conditions. <i>Journal of Mass Spectrometry</i> , 2011, 46, 734-741.	1.6	13
42	Edge strand engineering prevents native α -like aggregation in <i>Sulfolobus solfataricus</i> acylphosphatase. <i>FEBS Journal</i> , 2014, 281, 4072-4084.	4.7	13
43	A covalent homodimer probing early oligomers along amyloid aggregation. <i>Scientific Reports</i> , 2015, 5, 14651.	3.3	13
44	Functional and dysfunctional conformers of human neuroserpin characterized by optical spectroscopies and Molecular Dynamics. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 110-117.	2.3	13
45	Embelin binds to human neuroserpin and impairs its polymerisation. <i>Scientific Reports</i> , 2016, 6, 18769.	3.3	13
46	Molecular basis of a novel renal amyloidosis due to N184K gelsolin variant. <i>Scientific Reports</i> , 2016, 6, 33463.	3.3	12
47	Biochemical and biophysical comparison of human and mouse beta α 2 microglobulin reveals the molecular determinants of low amyloid propensity. <i>FEBS Journal</i> , 2020, 287, 546-560.	4.7	11
48	Glycosylation Tunes Neuroserpin Physiological and Pathological Properties. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3235.	4.1	11
49	Crystallization and preliminary X-ray diffraction analysis of Nsp15 from SARS coronavirus. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 409-411.	0.7	10
50	Tools for the rational design of bivalent microtubule-targeting drugs. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 48-53.	2.1	10
51	Embelin as Lead Compound for New Neuroserpin Polymerization Inhibitors. <i>Life</i> , 2020, 10, 111.	2.4	10
52	An N-glycosylation hotspot in immunoglobulin β light chains is associated with AL amyloidosis. <i>Leukemia</i> , 2022, 36, 2076-2085.	7.2	10
53	Molecular bases of neuroserpin function and pathology. <i>Biomolecular Concepts</i> , 2010, 1, 117-130.	2.2	9
54	The effects of an ideal β -turn on β -2 microglobulin fold stability. <i>Journal of Biochemistry</i> , 2011, 150, 39-47.	1.7	9

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55	FRET studies of various conformational states adopted by transthyretin. Cellular and Molecular Life Sciences, 2017, 74, 3577-3598.	5.4	7
56	Multi- <i>e</i> GO: An in silico lens to look into protein aggregation kinetics at atomic resolution. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	7
57	Investigating the Molecular Basis of the Aggregation Propensity of the Pathological D76N Mutant of Beta-2 Microglobulin: Role of the Denatured State. International Journal of Molecular Sciences, 2019, 20, 396.	4.1	5
58	Crystallization and preliminary crystallographic analysis of formyl-CoA tranferase fromOxalobacter formigenes. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1276-1277.	2.5	4
59	Modulating the cardiotoxic behaviour of immunoglobulin light chain dimers through point mutations. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2019, 26, 105-106.	3.0	4
60	Two novel fish paralogs provide insights into the Rid family of imine deaminases active in pre-empting enamine/imine metabolic damage. Scientific Reports, 2020, 10, 10135.	3.3	4
61	Detection and characterization of merohedral twinning in crystals of oxalyl-coenzyme A decarboxylase from Oxalobacter formigenes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 122-128.	2.3	3
62	Conformational Stability and Dynamics in Crystals Recapitulate Protein Behavior in Solution. Biophysical Journal, 2020, 119, 978-988.	0.5	3
63	An Asp to Asn mutation is a toxic trigger in beta-2 microglobulin: structure and biophysics. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2017, 24, 15-16.	3.0	2
64	The concurrency of several biophysical traits links immunoglobulin light chains with toxicity in AL amyloidosis. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2019, 26, 107-108.	3.0	2
65	Cu(II) Binding Increases the Soluble Toxicity of Amyloidogenic Light Chains. International Journal of Molecular Sciences, 2022, 23, 950.	4.1	1
66	<sc>l</sc>- to <sc>d</sc>-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. ACS Omega, 2022, 7, 9622-9635.	3.5	1