Mario Milani

List of Publications by Year
in descending order

94	3,516	117625	149698
papers	citations	34	56
		h-index	g-index

99	99	99	3822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ivermectin is a potent inhibitor of flavivirus replication specifically targeting NS3 helicase activity: new prospects for an old drug. Journal of Antimicrobial Chemotherapy, 2012, 67, 1884-1894.	3.0	329
2	Structure and functionality in flavivirus NS-proteins: Perspectives for drug design. Antiviral Research, 2010, 87, 125-148.	4.1	289
3	Mycobacterium tuberculosis hemoglobin N displays a protein tunnel suited for O2 diffusion to the heme. EMBO Journal, 2001, 20, 3902-3909.	7.8	198
4	Heme-Ligand Tunneling in Group I Truncated Hemoglobins. Journal of Biological Chemistry, 2004, 279, 21520-21525.	3.4	117
5	Structural bases for heme binding and diatomic ligand recognition in truncated hemoglobins. Journal of Inorganic Biochemistry, 2005, 99, 97-109.	3.5	117
6	Crystal Structure of a Novel Conformational State of the Flavivirus NS3 Protein: Implications for Polyprotein Processing and Viral Replication. Journal of Virology, 2009, 83, 12895-12906.	3.4	115
7	A TyrCD1/TrpG8 hydrogen bond network and a TyrB10–TyrCD1 covalent link shape the heme distal site of Mycobacterium tuberculosis hemoglobin O. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5766-5771.	7.1	111
8	Ligand-induced dynamical regulation of NO conversion in Mycobacterium tuberculosis truncated hemoglobin-N. Proteins: Structure, Function and Bioinformatics, 2006, 64, 457-464.	2.6	95
9	Structure-Based Inhibition of Norovirus RNA-Dependent RNA Polymerases. Journal of Molecular Biology, 2012, 419, 198-210.	4.2	86
10	Crystal Structure and Activity of Kunjin Virus NS3 Helicase; Protease and Helicase Domain Assembly in the Full Length NS3 Protein. Journal of Molecular Biology, 2007, 372, 444-455.	4.2	78
11	Recognition of RNA Cap in the Wesselsbron Virus NS5 Methyltransferase Domain: Implications for RNA-Capping Mechanisms in Flavivirus. Journal of Molecular Biology, 2009, 385, 140-152.	4.2	78
12	FAD-Binding Site and NADP Reactivity in Human Renalase: A New Enzyme Involved in Blood Pressure Regulation. Journal of Molecular Biology, 2011, 411, 463-473.	4.2	67
13	Protein fold and structure in the truncated (2/2) globin family. Gene, 2007, 398, 2-11.	2.2	66
14	Cyanide Binding to Truncated Hemoglobins:Â A Crystallographic and Kinetic Studyâ€,â€¡. Biochemistry, 2004, 43, 5213-5221.	2.5	65
15	Targeting the BIR Domains of Inhibitor of Apoptosis (IAP) Proteins in Cancer Treatment. Computational and Structural Biotechnology Journal, 2019, 17, 142-150.	4.1	65
16	Flaviviral methyltransferase/RNA interaction: Structural basis for enzyme inhibition. Antiviral Research, 2009, 83, 28-34.	4.1	64
17	Structural Bases of Norovirus RNA Dependent RNA Polymerase Inhibition by Novel Suramin-Related Compounds. PLoS ONE, 2014, 9, e91765.	2.5	53
18	Glycine Amidinotransferase (GATM), Renal Fanconi Syndrome, and Kidney Failure. Journal of the American Society of Nephrology: JASN, 2018, 29, 1849-1858.	6.1	53

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19	Mycobacterial truncated hemoglobins: From genes to functions. Gene, 2007, 398, 42-51.	2.2	51
20	Designing Smac-mimetics as antagonists of XIAP, cIAP1, and cIAP2. Biochemical and Biophysical Research Communications, 2009, 378, 162-167.	2.1	50
21	Targeting flavivirus RNA dependent RNA polymerase through a pyridobenzothiazole inhibitor. Antiviral Research, 2016, 134, 226-235.	4.1	49
22	Structural determinants of ligand migration in Mycobacterium tuberculosis truncated hemoglobin O. Proteins: Structure, Function and Bioinformatics, 2008, 73, 372-379.	2.6	47
23	An Active-like Structure in the Unphosphorylated StyR Response Regulator Suggests a Phosphorylation- Dependent Allosteric Activation Mechanism. Structure, 2005, 13, 1289-1297.	3.3	46
24	Ligand Interactions in the Distal Heme Pocket of Mycobacterium tuberculosis Truncated Hemoglobin N:â€‰ Roles of TyrB10 and GlnE11 Residues. Biochemistry, 2006, 45, 8770-8781.	2.5	45
25	Very high resolution structure of a trematode hemoglobin displaying a TyrB10-TyrE7 heme distal residue pair and high oxygen affinity. Journal of Molecular Biology, 2001, 309, 1153-1164.	4.2	44
26	Retromer stabilization results in neuroprotection in a model of Amyotrophic Lateral Sclerosis. Nature Communications, 2020, 11, 3848.	12.8	44
27	The truncated hemoglobin from Mycobacterium leprae. Biochemical and Biophysical Research Communications, 2002, 294, 1064-1070.	2.1	40
28	Ferredoxin-NADP+ Reductase from Plasmodium falciparum Undergoes NADP+-dependent Dimerization and Inactivation: Functional and Crystallographic Analysis. Journal of Molecular Biology, 2007, 367, 501-513.	4.2	40
29	Targeting the X-Linked Inhibitor of Apoptosis Protein through 4-Substituted Azabicyclo[5.3.0]alkane Smac Mimetics. Structure, Activity, and Recognition Principles. Journal of Molecular Biology, 2008, 384, 673-689.	4.2	40
30	Structural Basis for Bivalent Smac-Mimetics Recognition in the IAP Protein Family. Journal of Molecular Biology, 2009, 392, 630-644.	4.2	40
31	Structural bases for substrate recognition and activity in Meaban virus nucleoside-2â€²-O-methyltransferase. Protein Science, 2007, 16, 1133-1145.	7.6	39
32	Naphthalene-sulfonate inhibitors of human norovirus RNA-dependent RNA-polymerase. Antiviral Research, 2014, 102, 23-28.	4.1	39
33	Truncated Hemoglobins and Nitric Oxide Action. IUBMB Life, 2004, 55, 623-627.	3.4	38
34	The Roles of Tyr(CD1) and Trp(G8) in Mycobacterium tuberculosis Truncated Hemoglobin O in Ligand Binding and on the Heme Distal Site Architecture,. Biochemistry, 2007, 46, 11440-11450.	2.5	38
35	Rational design, synthesis and characterization of potent, non-peptidic Smac mimics/XIAP inhibitors as proapoptotic agents for cancer therapy. Bioorganic and Medicinal Chemistry, 2009, 17, 5834-5856.	3.0	36
36	Nitric oxide scavenging by Mycobacterium leprae GlbO involves the formation of the ferric heme-bound peroxynitrite intermediate. Biochemical and Biophysical Research Communications, 2006, 339, 450-456.	2.1	33

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37	Ligand Binding to Truncated Hemoglobin N from Mycobacterium tuberculosis Is Strongly Modulated by the Interplay between the Distal Heme Pocket Residues and Internal Water. Journal of Biological Chemistry, 2008, 283, 27270-27278.	3.4	29
38	Dimeric Smac mimetics/IAP inhibitors as in vivo-active pro-apoptotic agents. Part II: Structural and biological characterization. Bioorganic and Medicinal Chemistry, 2012, 20, 6709-6723.	3.0	29
39	Role and inhibition of GLI1 protein in cancer. Lung Cancer: Targets and Therapy, 2018, Volume 9, 35-43.	2.7	29
40	Delivery of Suramin as an Antiviral Agent through Liposomal Systems. ChemMedChem, 2014, 9, 933-939.	3.2	28
41	Nitric Oxide and Mycobacterium leprae Pathogenicity. IUBMB Life, 2002, 54, 95-99.	3.4	26
42	Substrate channeling: Molecular bases. Biochemistry and Molecular Biology Education, 2003, 31, 228-233.	1.2	26
43	Combined in silico and in vitro approaches identified the antipsychotic drug lurasidone and the antiviral drug elbasvir as SARS-CoV2 and HCoV-OC43 inhibitors. Antiviral Research, 2021, 189, 105055.	4.1	26
44	Is Renalase a Novel Player in Catecholaminergic Signaling? The Mystery of the Catalytic Activity of an Intriguing New Flavoenzyme. Current Pharmaceutical Design, 2013, 19, 2540-2551.	1.9	26
45	Recognition of Smacâ€mimetic compounds by the BIR domain of cIAP1. Protein Science, 2010, 19, 2418-2429.	7.6	25
46	Functionalized 2,1-benzothiazine 2,2-dioxides as new inhibitors of Dengue NS5 RNA-dependent RNA polymerase. European Journal of Medicinal Chemistry, 2018, 143, 1667-1676.	5.5	24
47	Broad spectrum anti-flavivirus pyridobenzothiazolones leading to less infective virions. Antiviral Research, 2019, 167, 6-12.	4.1	24
48	Peroxynitrite scavenging by ferrous truncated hemoglobin GlbO from Mycobacterium leprae. Biochemical and Biophysical Research Communications, 2006, 351, 528-533.	2.1	21
49	PPNDS inhibits murine Norovirus RNAâ€dependent RNAâ€polymerase mimicking two RNA stacking bases. FEBS Letters, 2014, 588, 1720-1725.	2.8	21
50	Nanobody interaction unveils structure, dynamics and proteotoxicity of the Finnish-type amyloidogenic gelsolin variant. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 648-660.	3.8	21
51	Identification of a Small Molecule That Compromises the Structural Integrity of Viroplasms and Rotavirus Double-Layered Particles. Journal of Virology, 2018, 92, .	3.4	20
52	Scattering mechanism of electrons interacting with surfaces in specular reflection geometry: Graphite. Physical Review B, 1999, 59, 13359-13364.	3.2	19
53	Single mutations at the subunit interface modulate copper reactivity in Photobacterium leiognathi Cu,Zn superoxide dismutase. Journal of Molecular Biology, 2001, 308, 555-563.	4.2	19
54	Flaviviral helicase: Insights into the mechanism of action of a motor protein. Biochemical and Biophysical Research Communications, 2012, 417, 84-87.	2.1	19

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55	Viscosity-dependent Relaxation Significantly Modulates the Kinetics of CO Recombination in the Truncated Hemoglobin TrHbN from Mycobacterium tuberculosis. Journal of Biological Chemistry, 2004, 279, 38844-38853.	3.4	18
56	CO Sniffing through Heme-based Sensor Proteins. IUBMB Life, 2004, 56, 309-315.	3.4	18
57	Mapping Hemeâ€Ligand Tunnels in Group I Truncated(2/2) Hemoglobins. Methods in Enzymology, 2008, 436, 303-315.	1.0	17
58	Gelsolin pathogenic Gly167Arg mutation promotes domain-swap dimerization of the protein. Human Molecular Genetics, 2018, 27, 53-65.	2.9	16
59	Protein structure in the truncated (2/2) hemoglobin family. IUBMB Life, 2007, 59, 535-541.	3.4	15
60	Crystal structure of a methyltransferase from a no-known-vector Flavivirus. Biochemical and Biophysical Research Communications, 2009, 382, 200-204.	2.1	14
61	Structural Insight into Inhibitor of Apoptosis Proteins Recognition by a Potent Divalent Smac-Mimetic. PLoS ONE, 2012, 7, e49527.	2.5	13
62	The 1.6â€…Ã… resolution crystal structure of a mutant plastocyanin bearing a 21â€“25 engineered disulfide bridge. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1735-1738.	2.5	12
63	The Activator of Apoptosis Smac-DIABLO Acts as a Tetramer in Solution. Biophysical Journal, 2015, 108, 714-723.	0.5	12
64	Molecular basis of a novel renal amyloidosis due to N184K gelsolin variant. Scientific Reports, 2016, 6, 33463.	3.3	12
65	Plasmodium falciparum Ferredoxin-NADP+ Reductase His286 Plays a Dual Role in NADP(H) Binding and Catalysis. Biochemistry, 2009, 48, 9525-9533.	2.5	11
66	Modulation of Guanylate Cyclase Activating Protein 1 (GCAP1) Dimeric Assembly by Ca2+ or Mg2+: Hints to Understand Protein Activity. Biomolecules, 2020, 10, 1408.	4.0	11
67	A stereospecific carboxyl esterase from Bacillus coagulans hosting nonlipase activity within a lipaseâ€like fold. FEBS Journal, 2018, 285, 903-914.	4.7	10
68	Structureâ€based design and molecular profiling of Smacâ€mimetics selective for cellular <scp>IAP</scp>s. FEBS Journal, 2018, 285, 3286-3298.	4.7	10
69	Crystal structure of YeaZ from Pseudomonas aeruginosa. Biochemical and Biophysical Research Communications, 2016, 470, 460-465.	2.1	9
70	Structural bases of the altered catalytic properties of a pathogenic variant of apoptosis inducing factor. Biochemical and Biophysical Research Communications, 2017, 490, 1011-1017.	2.1	9
71	Hemoprotein timeâ€resolved Xâ€ray crystallography. IUBMB Life, 2008, 60, 154-158.	3.4	7
72	Missense mutations affecting Ca2+-coordination in GCAP1 lead to cone-rod dystrophies by altering protein structural and functional properties. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118794.	4.1	7

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73	Structure-based identification of a new IAP-targeting compound that induces cancer cell death inducing NF-ÎºB pathway. Computational and Structural Biotechnology Journal, 2021, 19, 6366-6374.	4.1	7
74	NF023 binding to XIAPâ€BIR1: Searching drugs for regulation of the NFâ€ºB pathway. Proteins: Structure, Function and Bioinformatics, 2015, 83, 612-620.	2.6	6
75	Structureâ€Activity Relationship of NF023 Derivatives Binding to XIAPâ€BIR1. ChemistryOpen, 2019, 8, 476-482.	1.9	6
76	Preliminary characterization of (nucleoside-2â€²-O-)-methyltransferase crystals from Meaban and Yokose flaviviruses. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 768-770.	0.7	5
77	Preliminary crystallographic characterization of an RNA helicase from Kunjin virus. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 876-879.	0.7	5
78	High-resolution crystal structure of gelsolin domain 2 in complex with the physiological calcium ion. Biochemical and Biophysical Research Communications, 2019, 518, 94-99.	2.1	5
79	The structure of N184K amyloidogenic variant of gelsolin highlights the role of the H-bond network for protein stability and aggregation properties. European Biophysics Journal, 2020, 49, 11-19.	2.2	4
80	Virucidal Activity of the Pyridobenzothiazolone Derivative HeE1-17Y against Enveloped RNA Viruses. Viruses, 2022, 14, 1157.	3.3	4
81	Structural plasticity in the eight-helix fold of a trematode haemoglobin. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 719-722.	2.5	3
82	Computational and Experimental Characterization of NF023, A Candidate Anticancer Compound Inhibiting cIAP2/TRAF2 Assembly. Journal of Chemical Information and Modeling, 2020, 60, 5036-5044.	5.4	3
83	Synthesis and Characterization of Novel Mono- and Bis-Guanyl Hydrazones as Potent and Selective ASIC1 Inhibitors Able to Reduce Brain Ischemic Insult. Journal of Medicinal Chemistry, 2021, 64, 8333-8353.	6.4	3
84	A novel hotspot of gelsolin instability triggers an alternative mechanism of amyloid aggregation. Computational and Structural Biotechnology Journal, 2021, 19, 6355-6365.	4.1	2
85	Truncated hemoglobins: trimming the classical 'three-over-three' globin fold to a minimal size. Biochemistry and Molecular Biology Education, 2001, 29, 123-125.	1.2	1
86	An alternative non-proteolytic mechanism may underlie AGel amyloidosis. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2019, 26, 150-151.	3.0	1
87	Structural and functional characterization of TgpA, a critical protein for the viability of Pseudomonas aeruginosa. Journal of Structural Biology, 2019, 205, 18-25.	2.8	1
88	Single mutations at the subunit interface modulate copper reactivity in photobacterium leiognathi Cu, Zn superoxide dismutase. Journal of Molecular Biology, 2001, 309, 1003.	4.2	0
89	Truncated hemoglobins: trimming the classical â€˜threeâ€overâ€threeâ€™ globin fold to a minimal size. Biochemistry and Molecular Biology Education, 2001, 29, 123-125.	1.2	0
90	Structure Based Inhibition of the Calicivirus RNA-Dependent RNA-Polymerase. Biophysical Journal, 2012, 102, 462a.	0.5	0

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91	Evidence for selfâ€association of the alternative sigma factor Ïƒ⁵⁴. FEBS Journal, 2013, 280, 1371-1378.	4.7	0
92	Structure and activity of Kunjin virus NS3 helicase domain. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, s290-s290.	0.3	0
93	A Crystallographerâ€™s Perspective on the 2/2Hb Family. , 2008, , 17-30.		0
94	On the scattering mechanism of the electron impact on surfaces in specular reflection geometry : Nickel (110). European Physical Journal Special Topics, 1999, 09, Pr6-149-Pr6-152.	0.2	0