Tina Izard

List of Publications by Year
in descending order

64 papers	4,765 citations	147801 31 h-index	114465 63 g-index
68 all docs	68 docs citations	68 times ranked	7911 citing authors

#	Article	IF	Citations
1	SARS-CoV-2 spike-protein D614G mutation increases virion spike density and infectivity. Nature Communications, 2020, 11, 6013.	12.8	828
2	Frequent in-frame somatic deletions activate gp130 in inflammatory hepatocellular tumours. Nature, 2009, 457, 200-204.	27.8	437
3	Cell adhesion in cancer: Beyond the migration of single cells. Journal of Biological Chemistry, 2020, 295, 2495-2505.	3.4	346
4	Vinculin activation by talin through helical bundle conversion. Nature, 2004, 427, 171-175.	27.8	219
5	Somatic mutations activating STAT3 in human inflammatory hepatocellular adenomas. Journal of Experimental Medicine, 2011, 208, 1359-1366.	8.5	218
6	Mapping the interaction surface of linker histone H10 with the nucleosome of native chromatin in vivo. Nature Structural and Molecular Biology, 2006, 13, 250-255.	8.2	172
7	Crystal Structure of Human Vinculin. Structure, 2004, 12, 1189-1197.	3.3	146
8	The three-dimensional structure of N -acetylneuraminate lyase from Escherichia coli. Structure, 1994, 2, 361-369.	3.3	123
9	The Vinculin Binding Sites of Talin and Î±-Actinin Are Sufficient to Activate Vinculin. Journal of Biological Chemistry, 2006, 281, 7228-7236.	3.4	118
10	Dimer asymmetry defines Î±-catenin interactions. Nature Structural and Molecular Biology, 2013, 20, 188-193.	8.2	100
11	Structural and Molecular Mechanisms of Cytokine-Mediated Endocrine Resistance in Human Breast Cancer Cells. Molecular Cell, 2017, 65, 1122-1135.e5.	9.7	99
12	Structural Basis for Amplifying Vinculin Activation by Talin. Journal of Biological Chemistry, 2004, 279, 27667-27678.	3.4	88
13	The Cytoskeletal Protein Î±-Catenin Unfurls upon Binding to Vinculin. Journal of Biological Chemistry, 2012, 287, 18492-18499.	3.4	84
14	Structural Dynamics of Î±-Actinin-Vinculin Interactions. Molecular and Cellular Biology, 2005, 25, 6112-6122.	2.3	83
15	Shigella applies molecular mimicry to subvert vinculin and invade host cells. Journal of Cell Biology, 2006, 175, 465-475.	5.2	78
16	The interaction of talin with the cell membrane is essential for integrin activation and focal adhesion formation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10339-10344.	7.1	75
17	The crystal structures of phosphopantetheine adenylyltransferase with bound substrates reveal the enzymeâ€™s catalytic mechanism 1 1Edited by K. Nagai. Journal of Molecular Biology, 2002, 315, 487-495.	4.2	74
18	The Xenobiotic Transporter Mdr1 Enforces T Cell Homeostasis in the Presence of Intestinal Bile Acids. Immunity, 2017, 47, 1182-1196.e10.	14.3	73

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19	Vinculin binding in its closed conformation by a helix addition mechanism. EMBO Journal, 2007, 26, 4588-4596.	7.8	50
20	Lipid binding promotes oligomerization and focal adhesion activity of vinculin. Journal of Cell Biology, 2014, 207, 643-656.	5.2	50
21	Crystal structures of the metal-dependent 2-dehydro-3-deoxy-galactarate aldolase suggest a novel reaction mechanism. EMBO Journal, 2000, 19, 3849-3856.	7.8	48
22	Mechanisms and Functions of Vinculin Interactions with Phospholipids at Cell Adhesion Sites. Journal of Biological Chemistry, 2016, 291, 2548-2555.	3.4	48
23	A Novel Adenylate Binding Site Confers Phosphopantetheine Adenylyltransferase Interactions with Coenzyme A. Journal of Bacteriology, 2003, 185, 4074-4080.	2.2	45
24	Capping of actin filaments by vinculin activated by theShigellaIpaA carboxyl-terminal domain. FEBS Letters, 2007, 581, 853-857.	2.8	45
25	The Rickettsia Surface Cell Antigen 4 Applies Mimicry to Bind to and Activate Vinculin. Journal of Biological Chemistry, 2011, 286, 35096-35103.	3.4	44
26	Lipid binding promotes the open conformation and tumor-suppressive activity of neurofibromin 2. Nature Communications, 2018, 9, 1338.	12.8	42
27	Raver1 Interactions with Vinculin and RNA Suggest a Feed-Forward Pathway in Directing mRNA to Focal Adhesions. Structure, 2009, 17, 833-842.	3.3	40
28	Biochemical and functional analyses of gp130 mutants unveil JAK1 as a novel therapeutic target in human inflammatory hepatocellular adenoma. OncoImmunology, 2013, 2, e27090.	4.6	39
29	Novel Vinculin Binding Site of the IpaA Invasin of Shigella. Journal of Biological Chemistry, 2011, 286, 23214-23221.	3.4	37
30	Induced Fit Movements and Metal Cofactor Selectivity of Class II Aldolases. Journal of Biological Chemistry, 2004, 279, 11825-11833.	3.4	34
31	Systems Structural Biology Analysis of Ligand Effects on ERÎ± Predicts Cellular Response to Environmental Estrogens and Anti-hormone Therapies. Cell Chemical Biology, 2017, 24, 35-45.	5.2	34
32	Mechanism of Aldolase Control of Sorting Nexin 9 Function in Endocytosis. Journal of Biological Chemistry, 2010, 285, 11983-11990.	3.4	32
33	Roles of Membrane Domains in Integrin-Mediated Cell Adhesion. International Journal of Molecular Sciences, 2020, 21, 5531.	4.1	31
34	A Helix Replacement Mechanism Directs Metavinculin Functions. PLoS ONE, 2010, 5, e10679.	2.5	30
35	Nucleosome Interaction Surface of Linker Histone H1c Is Distinct from That of H10. Journal of Biological Chemistry, 2010, 285, 20891-20896.	3.4	30
36	Substrate-induced asymmetry and channel closure revealed by the apoenzyme structure ofMycobacterium tuberculosisphosphopantetheine adenylyltransferase. Protein Science, 2004, 13, 2547-2552.	7.6	29

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37	Unfurling of the band 4.1, ezrin, radixin, moesin (FERM) domain of the merlin tumor suppressor. Protein Science, 2011, 20, 2113-2120.	7.6	27
38	A Hydrophobic Pocket in the Active Site of Glycolytic Aldolase Mediates Interactions with Wiskott-Aldrich Syndrome Protein. Journal of Biological Chemistry, 2007, 282, 14309-14315.	3.4	26
39	Cryo-EM structure of human GPR158 receptor coupled to the RGS7-GÎ²5 signaling complex. Science, 2022, 375, 86-91.	12.6	24
40	Differential lipid binding of vinculin isoforms promotes quasi-equivalent dimerization. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9539-9544.	7.1	18
41	Structural organization of a major neuronal G protein regulator, the RGS7-GÎ²5-R7BP complex. ELife, 2018, 7, .	6.0	18
42	Shigella IpaA Binding to Talin Stimulates Filopodial Capture and Cell Adhesion. Cell Reports, 2019, 26, 921-932.e6.	6.4	17
43	Structural basis for chloramphenicol tolerance in <i>Streptomyces venezuelae</i> by chloramphenicol phosphotransferase activity. Protein Science, 2001, 10, 1508-1513.	7.6	16
44	Dual-mechanism estrogen receptor inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
45	Lipid-Directed Vinculin Dimerization. Biochemistry, 2015, 54, 2758-2768.	2.5	15
46	Crystal structure of vinculin in complex with vinculin binding site 50 (VBS50), the integrin binding site 2 (IBS2) of talin. Protein Science, 2012, 21, 583-588.	7.6	11
47	Chemical systems biology reveals mechanisms of glucocorticoid receptor signaling. Nature Chemical Biology, 2021, 17, 307-316.	8.0	11
48	A distinct talin2 structure directs isoform specificity in cell adhesion. Journal of Biological Chemistry, 2020, 295, 12885-12899.	3.4	10
49	Conformational flexibility determines the Nf2/merlin tumor suppressor functions. Matrix Biology Plus, 2021, 12, 100074.	3.5	10
50	Improvement of diffraction quality upon rehydration of dehydrated icosahedral enterococcus faecalis pyruvate dehydrogenase core crystals. Protein Science, 1997, 6, 913-915.	7.6	9
51	Trigonal crystals of porcine mitochondrial aspartate aminotransferase. Journal of Molecular Biology, 1990, 215, 341-344.	4.2	8
52	Cubic crystals of phosphopantetheine adenylyltransferase from Escherichia coli. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1226-1228.	2.5	8
53	The Metavinculin Tail Domain Directs Constitutive Interactions with Raver1 and vinculin RNA. Journal of Molecular Biology, 2012, 422, 697-704.	4.2	7
54	Vinculin-cell membrane interactions. Oncotarget, 2015, 6, 34043-34044.	1.8	7

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55	Rhombohedral crystals ofMycobacterium tuberculosisphosphopantetheine adenylyltransferase. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 195-196.	2.5	6
56	Cubic crystals of chloramphenicol phosphotransferase fromStreptomyces venezuelaein complex with chloramphenicol. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1086-1088.	2.5	5
57	Crystal structure of the <i>N</i>â€terminal domains of the surface cell antigen 4 of <i>Rickettsia</i>. Protein Science, 2013, 22, 1425-1431.	7.6	5
58	Rhombohedral crystals of 2-dehydro-3-deoxygalactarate aldolase from Escherichia coli. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1368-1369.	2.5	4
59	Design of Novel Phosphopantetheine Adenylyltransferase Inhibitors: A Potential New Approach to Tackle Mycobacterium tuberculosis. Current Topics in Medicinal Chemistry, 2021, 21, 1186-1197.	2.1	4
60	Apo raver1 structure reveals distinct RRM domain orientations. Protein Science, 2011, 20, 1464-1470.	7.6	3
61	The Cryogenic Electron Microscopy Structure of the Cell Adhesion Regulator Metavinculin Reveals an Isoform-Specific Kinked Helix in Its Cytoskeleton Binding Domain. International Journal of Molecular Sciences, 2021, 22, 645.	4.1	2
62	Cryo-EM structure of human GPR158 receptor coupled to the RGS7-GÎ²5 signaling complex. Science, 2021, , eabl4732.	12.6	2
63	Crystallization of HLA-DR4 fused to an immunodominant collagen II peptide implicated in rheumatoid arthritis. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1749-1751.	2.5	1
64	Rhombohedral crystals of the human vinculin head domain in complex with a vinculin-binding site of talin. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 945-947.	2.5	1