Thomas A Jowitt

List of Publications by Year
in descending order

78	3,293	236912 25	155644 55
papers	citations	h-index	g-index

81	81	81	5496
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microarray screening reveals two non-conventional SUMO-binding modules linked to DNA repair by non-homologous end-joining. Nucleic Acids Research, 2022, 50, 4732-4754.	14.5	4
2	Elastic Fibre Proteins in Elastogenesis and Wound Healing. International Journal of Molecular Sciences, 2022, 23, 4087.	4.1	12
3	The feasibility of determining kinetic constants from isothermal titration calorimetry data. Biophysical Journal, 2022, , .	0.5	3
4	Structure of PLA2R reveals presentation of the dominant membranous nephropathy epitope and an immunogenic patch. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	10
5	Dual role of the active site â€˜lidâ€™ regions of protochlorophyllide oxidoreductase in photocatalysis and plant development. FEBS Journal, 2021, 288, 175-189.	4.7	15
6	Quartz Crystal Microbalance with Monitoring (QCM-D): Preparing Lipid Layers for the Study of Complex Proteinâ€“Ligand Interactions. Methods in Molecular Biology, 2021, 2263, 183-197.	0.9	1
7	Design, synthesis and evaluation of tryptophan analogues as tool compounds to study IDO1 activity. RSC Chemical Biology, 2021, 2, 1651-1660.	4.1	0
8	Interaction standards for biophysics: anti-lysozyme nanobodies. European Biophysics Journal, 2021, 50, 333-343.	2.2	4
9	Discovery of uncompetitive inhibitors of SapM that compromise intracellular survival of Mycobacterium tuberculosis. Scientific Reports, 2021, 11, 7667.	3.3	4
10	Reproducibility and accuracy of microscale thermophoresis in the NanoTemper Monolith: a multi laboratory benchmark study. European Biophysics Journal, 2021, 50, 411-427.	2.2	13
11	Development of an open-source thermally stabilized quartz crystal microbalance instrument for biomolecule-substrate binding assays on gold and graphene. Analytica Chimica Acta, 2021, 1156, 338329.	5.4	4
12	Community-building and promotion of technological excellence in molecular biophysics: the ARBREâ€“MOBIEU network. European Biophysics Journal, 2021, 50, 307-311.	2.2	1
13	Autosomal Recessive Cutis Laxa 1C Mutations Disrupt the Structure and Interactions of Latent TGFÎ² Binding Protein-4. Frontiers in Genetics, 2021, 12, 706662.	2.3	3
14	Phosphorylation-dependent BRD4 dimerization and implications for therapeutic inhibition of BET family proteins. Communications Biology, 2021, 4, 1273.	4.4	10
15	A Point-of-Care Immunosensor Based on a Quartz Crystal Microbalance with Graphene Biointerface for Antibody Assay. ACS Sensors, 2020, 5, 3520-3532.	7.8	32
16	Protein interactions and conformations on graphene-based materials mapped using a quartz-crystal microbalance with dissipation monitoring (QCM-D). Carbon, 2020, 165, 317-327.	10.3	52
17	Inter-Î±-inhibitor heavy chain-1 has an integrin-like 3D structure mediating immune regulatory activities and matrix stabilization during ovulation. Journal of Biological Chemistry, 2020, 295, 5278-5291.	3.4	18
18	Enhanced avidin binding to lipid bilayers using PDP-PE lipids with PEG-biotin linkers. Nanoscale Advances, 2020, 2, 1625-1633.	4.6	4

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19	The C-terminal dimerization domain of the respiratory mucin MUC5B functions in mucin stability and intracellular packaging before secretion. Journal of Biological Chemistry, 2019, 294, 17105-17116.	3.4	19
20	MhuD from Mycobacterium tuberculosis: Probing a Dual Role in Heme Storage and Degradation. ACS Infectious Diseases, 2019, 5, 1855-1866.	3.8	8
21	Lysyl oxidaseâ€like 2 (LOXL2)â€mediated crossâ€linking of tropoelastin. FASEB Journal, 2019, 33, 5468-5481.	0.5	53
22	The major secreted protein of the whipworm parasite tethers to matrix and inhibits interleukin-13 function. Nature Communications, 2019, 10, 2344.	12.8	48
23	Negative Cooperativity in NAD(P)H Quinone Oxidoreductase 1 (NQO1). ChemBioChem, 2019, 20, 2841-2849.	2.6	16
24	Hybrid Mass Spectrometry Approaches to Determine How L-Histidine Feedback Regulates the Enzyme MtATP-Phosphoribosyltransferase. Structure, 2017, 25, 730-738.e4.	3.3	22
25	The herpes viral transcription factor ICP4 forms a novel DNA recognition complex. Nucleic Acids Research, 2017, 45, 8064-8078.	14.5	23
26	The open architecture of HD-PTP phosphatase provides new insights into the mechanism of regulation of ESCRT function. Scientific Reports, 2017, 7, 9151.	3.3	22
27	PLA2R binds to the annexin A2-S100A10 complex in human podocytes. Scientific Reports, 2017, 7, 6876.	3.3	22
28	Mammalian tolloid proteinases: role in growth factor signalling. FEBS Letters, 2016, 590, 2398-2407.	2.8	9
29	Potent and selective bivalent inhibitors of BET bromodomains. Nature Chemical Biology, 2016, 12, 1097-1104.	8.0	109
30	Ligand-induced Epitope Masking. Journal of Biological Chemistry, 2016, 291, 20993-21007.	3.4	16
31	Diversity between mammalian tolloid proteinases: Oligomerisation and non-catalytic domains influence activity and specificity. Scientific Reports, 2016, 6, 21456.	3.3	8
32	Structural characterization of twisted gastrulation provides insights into opposing functions on the BMP signalling pathway. Matrix Biology, 2016, 55, 49-62.	3.6	15
33	Integrin Î±4Î²1 controls G9a activity that regulates epigenetic changes and nuclear properties required for lymphocyte migration. Nucleic Acids Research, 2016, 44, 3031-3044.	14.5	39
34	Nuclear Magnetic Resonance Insight into the Multiple Glycosaminoglycan Binding Modes of the Link Module from Human TSG-6. Biochemistry, 2016, 55, 262-276.	2.5	20
35	The role of chordin fragments generated by partial tolloid cleavage in regulating BMP activity. Biochemical Society Transactions, 2015, 43, 795-800.	3.4	15
36	Breaking and Restoring the Hydrophobic Core of a Centromere-binding Protein. Journal of Biological Chemistry, 2015, 290, 9273-9283.	3.4	1

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37	Metal Ion-dependent Heavy Chain Transfer Activity of TSG-6 Mediates Assembly of the Cumulus-Oocyte Matrix. Journal of Biological Chemistry, 2015, 290, 28708-28723.	3.4	46
38	The structure of the folded domain from the signature multifunctional protein ICP27 from herpes simplex virus-1 reveals an intertwined dimer. Scientific Reports, 2015, 5, 11234.	3.3	23
39	Cadherin flexibility provides a key difference between desmosomes and adherens junctions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5395-5400.	7.1	37
40	Identification of a Major Epitope Recognized by PLA2R Autoantibodies in Primary Membranous Nephropathy. Journal of the American Society of Nephrology: JASN, 2015, 26, 302-313.	6.1	185
41	Assembly of the Respiratory Mucin MUC5B. Journal of Biological Chemistry, 2014, 289, 16409-16420.	3.4	76
42	TSG-6 Inhibits Neutrophil Migration via Direct Interaction with the Chemokine CXCL8. Journal of Immunology, 2014, 192, 2177-2185.	0.8	147
43	Disruption of integrinâ€“fibronectin complexes by allosteric but not ligand-mimetic inhibitors. Biochemical Journal, 2014, 464, 301-313.	3.7	24
44	Nanoscale structure of the BMP antagonist chordin supports cooperative BMP binding. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13063-13068.	7.1	40
45	Comparative surface antimicrobial properties of synthetic biocides and novel human apolipoprotein E derived antimicrobial peptides. Biomaterials, 2013, 34, 5453-5464.	11.4	58
46	Metastasis-Promoting Anterior Gradient 2 Protein Has a Dimeric Thioredoxin Fold Structure and a Role in Cell Adhesion. Journal of Molecular Biology, 2013, 425, 929-943.	4.2	55
47	Preservation of Human Tear Protein Structure and Function by a Novel Contact Lens Multipurpose Solution Containing Protein-Stabilizing Agents. Eye and Contact Lens, 2012, 38, 36-42.	1.6	19
48	Temperatureâ€dependent study reveals that dynamics of hydrophobic residues plays an important functional role in the mitochondrial Tim9â€“Tim10 complex. Proteins: Structure, Function and Bioinformatics, 2012, 80, 602-615.	2.6	6
49	Collagen-Like Proteins in Pathogenic E. coli Strains. PLoS ONE, 2012, 7, e37872.	2.5	32
50	Deriving the ultrastructure of Î±-crustacyanin usingÂlower-resolution structural and biophysical methods. Journal of Synchrotron Radiation, 2011, 18, 79-83.	2.4	12
51	Expression and characterization of Mycobacterium tuberculosis CYP144: Common themes and lessons learned in the M. tuberculosis P450 enzyme family. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 76-87.	2.3	23
52	Collagen VI, Conformation of A-domain Arrays and Microfibril Architecture. Journal of Biological Chemistry, 2011, 286, 40266-40275.	3.4	21
53	Structural and functional evidence for a substrate exclusion mechanism in mammalian tolloid likeâ€1 (TLLâ€1) proteinase. FEBS Letters, 2010, 584, 657-661.	2.8	20
54	Biocatalysis with Thermostable Enzymes: Structure and Properties of a Thermophilic â€˜eneâ€™â€Reductase related to Old Yellow Enzyme. ChemBioChem, 2010, 11, 197-207.	2.6	110

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55	Order within disorder: Aggrecan chondroitin sulphateâ€attachment region provides new structural insights into protein sequences classified as disordered. Proteins: Structure, Function and Bioinformatics, 2010, 78, 3317-3327.	2.6	12
56	Structural and Functional Investigations of Matrilin-1 A-domains Reveal Insights into Their Role in Cartilage ECM Assembly*. Journal of Biological Chemistry, 2010, 285, 34048-34061.	3.4	16
57	Structural Effects of Fibulin 5 Missense Mutations Associated with Age-Related Macular Degeneration and Cutis Laxa. , 2010, 51, 2356.		25
58	Molecular basis of coiled-coil oligomerization-state specificity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19850-19855.	7.1	66
59	The Angiogenic Inhibitor Long Pentraxin PTX3 Forms an Asymmetric Octamer with Two Binding Sites for FGF2. Journal of Biological Chemistry, 2010, 285, 17681-17692.	3.4	106
60	Order in Disorder: Aggrecan CS Region Predicts a New Class of Protein Structure. FASEB Journal, 2010, 24, 684.9.	0.5	0
61	The Effect of Ligand Binding on the Galactokinase Activity of Yeast Gal1p and Its Ability to Activate Transcription. Journal of Biological Chemistry, 2009, 284, 229-236.	3.4	10
62	Role of dimerization and substrate exclusion in the regulation of bone morphogenetic protein-1 and mammalian tolloid. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8561-8566.	7.1	40
63	Fibulin 5 Forms a Compact Dimer in Physiological Solutions. Journal of Biological Chemistry, 2009, 284, 25938-25943.	3.4	11
64	Missense mutations that cause Van der Woude syndrome and popliteal pterygium syndrome affect the DNA-binding and transcriptional activation functions of IRF6. Human Molecular Genetics, 2009, 18, 535-545.	2.9	75
65	Heparan sulfate regulates fibrillin-1 N- and C-terminal interactions. VOLUME 283 (2008) PAGES 27017-27027. Journal of Biological Chemistry, 2009, 284, 8995.	3.4	1
66	Assembly of the Mitochondrial Tim9â€“Tim10 Complex: A Multi-step Reaction with Novel Intermediates. Journal of Molecular Biology, 2008, 375, 229-239.	4.2	24
67	A Role for Soluble N-Ethylmaleimide-sensitive Factor Attachment Protein Receptor Complex Dimerization during Neurosecretion. Molecular Biology of the Cell, 2008, 19, 3379-3389.	2.1	12
68	Heparan Sulfate Regulates Fibrillin-1 N- and C-terminal Interactions. Journal of Biological Chemistry, 2008, 283, 27017-27027.	3.4	50
69	Engineering of a monomeric fluorescent protein AsGFP499 and its applications in a dual translocation and transcription assay. Protein Engineering, Design and Selection, 2008, 21, 613-622.	2.1	2
70	Structural and Functional Characterization of Recombinant Matrilin-3 A-domain and Implications for Human Genetic Bone Diseases. Journal of Biological Chemistry, 2007, 282, 34634-34643.	3.4	39
71	GTF2IRD1 regulates transcription by binding an evolutionarily conserved DNA motif â€˜GUCEâ€™. FEBS Letters, 2007, 581, 1233-1242.	2.8	12
72	Structural basis for complement factor Hâ€“linked age-related macular degeneration. Journal of Experimental Medicine, 2007, 204, 2277-2283.	8.5	168

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73	Crystal structure and solution characterization of the activation domain of human methionine synthase. FEBS Journal, 2007, 274, 738-750.	4.7	16
74	Mapping and conformational characterization of the DNA-binding region of the breast cancer susceptibility protein BRCA1. Biochemical Journal, 2006, 395, 529-535.	3.7	15
75	Nanostructured Hydrogels for Three-Dimensional Cell Culture Through Self-Assembly of Fluorenylmethoxycarbonylâ€“Dipeptides. Advanced Materials, 2006, 18, 611-614.	21.0	936
76	Marfan Syndrome-causing Mutations in Fibrillin-1 Result in Gross Morphological Alterations and Highlight the Structural Importance of the Second Hybrid Domain. Journal of Biological Chemistry, 2006, 281, 31854-31862.	3.4	25
77	Marfan Syndrome-causing Mutations in Fibrillin-1 Result in Gross Morphological Alterations and Highlight the Structural Importance of the Second Hybrid Domain. Journal of Biological Chemistry, 2006, 281, 31854-31862.	3.4	7
78	Characterization of Opticin and Evidence of Stable Dimerization in Solution. Journal of Biological Chemistry, 2003, 278, 45280-45287.	3.4	36