

Martin A Wear

List of Publications by Year in descending order

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46
papers

2,194
citations

279798

23
h-index

233421

45
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46
all docs

46
docs citations

46
times ranked

3141
citing authors

#	ARTICLE	IF	CITATIONS
1	Actin Filament Severing by Cofilin. <i>Journal of Molecular Biology</i> , 2007, 365, 1350-1358.	4.2	164
2	Interactions with PIP2, ADP-actin monomers, and capping protein regulate the activity and localization of yeast twinfilin. <i>Journal of Cell Biology</i> , 2001, 155, 251-260.	5.2	156
3	How Capping Protein Binds the Barbed End of the Actin Filament. <i>Current Biology</i> , 2003, 13, 1531-1537.	3.9	143
4	M2 pyruvate kinase provides a mechanism for nutrient sensing and regulation of cell proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5881-5886.	7.1	132
5	HpARI Protein Secreted by a Helminth Parasite Suppresses Interleukin-33. <i>Immunity</i> , 2017, 47, 739-751.e5.	14.3	130
6	Capping protein: new insights into mechanism and regulation. <i>Trends in Biochemical Sciences</i> , 2004, 29, 418-428.	7.5	114
7	Mammalian CARMIL Inhibits Actin Filament Capping by Capping Protein. <i>Developmental Cell</i> , 2005, 9, 209-221.	7.0	114
8	Actin dynamics: Assembly and disassembly of actin networks. <i>Current Biology</i> , 2000, 10, R891-R895.	3.9	107
9	Capping protein binding to actin in yeast. <i>Journal of Cell Biology</i> , 2004, 164, 567-580.	5.2	90
10	A global benchmark study using affinity-based biosensors. <i>Analytical Biochemistry</i> , 2009, 386, 194-216.	2.4	85
11	Biological role and structural mechanism of twinfilin-capping protein interaction. <i>EMBO Journal</i> , 2004, 23, 3010-3019.	7.8	71
12	Wzi Is an Outer Membrane Lectin that Underpins Group 1 Capsule Assembly in <i>Escherichia coli</i> . <i>Structure</i> , 2013, 21, 844-853.	3.3	63
13	A surface plasmon resonance-based assay for small molecule inhibitors of human cyclophilin A. <i>Analytical Biochemistry</i> , 2005, 345, 214-226.	2.4	61
14	A t(1;11) translocation linked to schizophrenia and affective disorders gives rise to aberrant chimeric DISC1 transcripts that encode structurally altered, deleterious mitochondrial proteins. <i>Human Molecular Genetics</i> , 2012, 21, 3374-3386.	2.9	61
15	Inhibition of the ERCC1-XPF structure-specific endonuclease to overcome cancer chemoresistance. <i>DNA Repair</i> , 2015, 31, 19-28.	2.8	56
16	Molecular basis for Cdk1-regulated timing of Mis18 complex assembly and CENPA deposition. <i>EMBO Reports</i> , 2017, 18, 894-905.	4.5	51
17	An allostatic mechanism for M2 pyruvate kinase as an amino-acid sensor. <i>Biochemical Journal</i> , 2018, 475, 1821-1837.	3.7	44
18	A helminth-derived suppressor of ST2 blocks allergic responses. <i>ELife</i> , 2020, 9, .	6.0	39

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19	The Mitosis and Neurodevelopment Proteins NDE1 and NDEL1 Form Dimers, Tetramers, and Polymers with a Folded Back Structure in Solution. <i>Journal of Biological Chemistry</i> , 2012, 287, 32381-32393.	3.4	38
20	Borealin nucleosome interaction secures chromosome association of the chromosomal passenger complex. <i>Journal of Cell Biology</i> , 2019, 218, 3912-3925.	5.2	34
21	A chicken bioreactor for efficient production of functional cytokines. <i>BMC Biotechnology</i> , 2018, 18, 82.	3.3	33
22	Arp2/3 Complex. <i>Cell</i> , 2001, 107, 703-705.	28.9	32
23	Thermodynamics of the cyclophilin-A/cyclosporin-A interaction: A direct comparison of parameters determined by surface plasmon resonance using Biacore T100 and isothermal titration calorimetry. <i>Analytical Biochemistry</i> , 2006, 359, 285-287.	2.4	31
24	Specificity of Atonal and Scute bHLH factors: analysis of cognate E box binding sites and the influence of Senseless. <i>Genes To Cells</i> , 2008, 13, 915-929.	1.2	29
25	Redox regulation of pyruvate kinase M2 by cysteine oxidation and S-nitrosation. <i>Biochemical Journal</i> , 2018, 475, 3275-3291.	3.7	24
26	Structure-based discovery of a family of synthetic cyclophilin inhibitors showing a cyclosporin-A phenotype in <i>Caenorhabditis elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2007, 363, 1013-1019.	2.1	23
27	Sequence specificity of single-stranded DNA-binding proteins: a novel DNA microarray approach. <i>Nucleic Acids Research</i> , 2007, 35, e75.	14.5	22
28	Fast acting allosteric phosphofructokinase inhibitors block trypanosome glycolysis and cure acute African trypanosomiasis in mice. <i>Nature Communications</i> , 2021, 12, 1052.	12.8	21
29	A kinetically trapped intermediate of FK506 binding protein forms in vitro: Chaperone machinery dominates protein folding in vivo. <i>Protein Expression and Purification</i> , 2007, 51, 80-95.	1.3	18
30	Triazole biotin: a tight-binding biotinidase-resistant conjugate. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7700.	2.8	18
31	A Truncated Form of HpARI Stabilizes IL-33, Amplifying Responses to the Cytokine. <i>Frontiers in Immunology</i> , 2020, 11, 1363.	4.8	18
32	A computationally designed binding mode flip leads to a novel class of potent tri-vector cyclophilin inhibitors. <i>Chemical Science</i> , 2019, 10, 542-547.	7.4	17
33	Determination of the rate constants for the FK506 binding protein/rapamycin interaction using surface plasmon resonance: An alternative sensor surface for Ni ²⁺ nitrilotriacetic acid immobilization of His-tagged proteins. <i>Analytical Biochemistry</i> , 2007, 371, 250-252.	2.4	16
34	Pushing the Limits of Detection of Weak Binding Using Fragment-Based Drug Discovery: Identification of New Cyclophilin Binders. <i>Journal of Molecular Biology</i> , 2017, 429, 2556-2570.	4.2	16
35	Experimental Determination of van der Waals Energies in a Biological System. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6453-6456.	13.8	15
36	Capping Protein Binding to S100B. <i>Journal of Biological Chemistry</i> , 2004, 279, 14382-14390.	3.4	14

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37	Streamlined, automated protocols for the production of milligram quantities of untagged recombinant human cyclophilin-A (hCypA) and untagged human proliferating cell nuclear antigen (hPCNA) using Å„KTAxpressâ„¢. Protein Expression and Purification, 2010, 71, 54-61.	1.3	12
38	Cyclophilin40 isomerase activity is regulated by a temperature-dependent allosteric interaction with Hsp90. Bioscience Reports, 2015, 35, .	2.4	11
39	Design and Synthesis of Conformationally Constrained Cyclophilin Inhibitors Showing a Cyclosporinâ€™A Phenotype in <i>C. elegans</i>. ChemBioChem, 2011, 12, 802-810.	2.6	10
40	Evaluation of novel 3D-printed monolithic adsorbers against conventional chromatography columns for the purification of c-phycoyanin from Spirulina. Algal Research, 2021, 55, 102253.	4.6	10
41	Trypanosomatid phosphoglycerate mutases have multiple conformational and oligomeric states. Biochemical and Biophysical Research Communications, 2014, 450, 936-941.	2.1	9
42	A Streamlined, Automated Protocol for the Production of Milligram Quantities of Untagged Recombinant Rat Lactate Dehydrogenase A Using Å„KTAxpressTM. PLoS ONE, 2015, 10, e0146164.	2.5	9
43	Biophysical Characterization and Activity of Lymphostatin, a Multifunctional Virulence Factor of Attaching and Effacing Escherichia coli. Journal of Biological Chemistry, 2016, 291, 5803-5816.	3.4	9
44	Thermo-kinetic analysis space expansion for cyclophilin-ligand interactions - identification of a new nonpeptide inhibitor using Biacoreâ„¢ T200. FEBS Open Bio, 2017, 7, 533-549.	2.3	8
45	Kinetic and structural studies of <i>Trypanosoma</i> and <i>Leishmania</i> phosphofructokinases show evolutionary divergence and identify AMP as a switch regulating glycolysis <i>versus</i> gluconeogenesis. FEBS Journal, 2020, 287, 2847-2861.	4.7	8
46	Pilot scale production, extraction and purification of a thermostable phycocyanin from Synechocystis sp. PCC 6803. Bioresource Technology, 2022, 345, 126459.	9.6	8