

Benjamin T Walters

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,614
citations

471509

17
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

2917
citing authors

#	ARTICLE	IF	CITATIONS
1	Recommendations for performing, interpreting and reporting hydrogen deuterium exchange mass spectrometry (HDX-MS) experiments. <i>Nature Methods</i> , 2019, 16, 595-602.	19.0	452
2	Stepwise protein folding at near amino acid resolution by hydrogen exchange and mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7684-7689.	7.1	158
3	Minimizing Back Exchange in the Hydrogen Exchange-Mass Spectrometry Experiment. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 2132-2139.	2.8	136
4	Protein hydrogen exchange at residue resolution by proteolytic fragmentation mass spectrometry analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16438-16443.	7.1	131
5	Many Overlapping Peptides for Protein Hydrogen Exchange Experiments by the Fragment Separation-Mass Spectrometry Method. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1898-905.	2.8	112
6	Folding of a large protein at high structural resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18898-18903.	7.1	85
7	An Allosteric Anti-tryptase Antibody for the Treatment of Mast Cell-Mediated Severe Asthma. <i>Cell</i> , 2019, 179, 417-431.e19.	28.9	76
8	An Efficient Organic Solvent Based Extraction Method for the Proteomic Analysis of <i>Arabidopsis</i> Plasma Membranes. <i>Journal of Proteome Research</i> , 2009, 8, 2752-2767.	3.7	72
9	Mutational landscape of antibody variable domains reveals a switch modulating the interdomain conformational dynamics and antigen binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E486-E495.	7.1	72
10	Interlaboratory Comparison of Hydrogen-Deuterium Exchange Mass Spectrometry Measurements of the Fab Fragment of NISTmAb. <i>Analytical Chemistry</i> , 2019, 91, 7336-7345.	6.5	44
11	Solid-State Hydrogen-Deuterium Exchange Mass Spectrometry: Correlation of Deuterium Uptake and Long-Term Stability of Lyophilized Monoclonal Antibody Formulations. <i>Molecular Pharmaceutics</i> , 2018, 15, 1-11.	4.6	39
12	Conformational Destabilization of Immunoglobulin G Increases the Low pH Binding Affinity with the Neonatal Fc Receptor. <i>Journal of Biological Chemistry</i> , 2016, 291, 1817-1825.	3.4	35
13	Structures of autoinhibited and polymerized forms of CARD9 reveal mechanisms of CARD9 and CARD11 activation. <i>Nature Communications</i> , 2019, 10, 3070.	12.8	33
14	Multiscale Coarse-Grained Approach to Investigate Self-Association of Antibodies. <i>Biophysical Journal</i> , 2020, 118, 2741-2754.	0.5	28
15	Dissecting the molecular basis of high viscosity of monospecific and bispecific IgG antibodies. <i>MAbs</i> , 2020, 12, 1692764.	5.2	27
16	Activation of the IRE1 RNase through remodeling of the kinase front pocket by ATP-competitive ligands. <i>Nature Communications</i> , 2020, 11, 6387.	12.8	24
17	Bivalent antibody pliers inhibit β -tryptase by an allosteric mechanism dependent on the IgG hinge. <i>Nature Communications</i> , 2020, 11, 6435.	12.8	18
18	Empirical Method To Accurately Determine Peptide-Averaged Protection Factors from Hydrogen Exchange MS Data. <i>Analytical Chemistry</i> , 2017, 89, 1049-1053.	6.5	16

#	ARTICLE	IF	CITATIONS
19	Structure-Based Correlation of Light-Induced Histidine Reactivity in A Model Protein. Analytical Chemistry, 2017, 89, 7225-7231.	6.5	14
20	High-Throughput Kinetic Characterization of Irreversible Covalent Inhibitors of KRAS ^{G12C} by Intact Protein MS and Targeted MRM. Analytical Chemistry, 2022, 94, 1230-1239.	6.5	11
21	Highland games: A benchmarking exercise in predicting biophysical and drug properties of monoclonal antibodies from amino acid sequences. Biotechnology and Bioengineering, 2020, 117, 2100-2115.	3.3	9
22	AMORE-HX: a multidimensional optimization of radial enhanced NMR-sampled hydrogen exchange. Journal of Biomolecular NMR, 2009, 45, 233-239.	2.8	8
23	Optimizing the Formulation and Lyophilization Process for a Fragment Antigen Binding (Fab) Protein Using Solid-State Hydrogen-Deuterium Exchange Mass Spectrometry (ssHDX-MS). Molecular Pharmaceutics, 2019, 16, 4485-4495.	4.6	8
24	Hydrogen-Deuterium Exchange Mass Spectrometry (HDX-MS) Centroid Data Measured between 3.6 Å°C and 25.4 Å°C for the Fab Fragment of NISTmAb. Journal of Research of the National Institute of Standards and Technology, 2019, 124, 1-7.	1.2	3
25	Identification of Agitation-Induced Unfolding Events Causing Aggregation of Monoclonal Antibodies Using Hydrogen Exchange-Mass Spectrometry. Journal of Pharmaceutical Sciences, 2022, 111, 2210-2216.	3.3	3