

Matthew D Shoulders

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

4,594
citations

331259

21
h-index

301761

39
g-index

43
all docs

43
docs citations

43
times ranked

7094
citing authors

#	ARTICLE	IF	CITATIONS
1	Collagen Structure and Stability. Annual Review of Biochemistry, 2009, 78, 929-958.	5.0	2,705
2	Stress-Independent Activation of XBP1s and/or ATF6 Reveals Three Functionally Diverse ER Proteostasis Environments. Cell Reports, 2013, 3, 1279-1292.	2.9	436
3	Stereoelectronic and steric effects in side chains preorganize a protein main chain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 559-564.	3.3	154
4	Multidimensional chemical control of CRISPR-Cas9. Nature Chemical Biology, 2017, 13, 9-11.	3.9	146
5	Reciprocity of Steric and Stereoelectronic Effects in the Collagen Triple Helix. Journal of the American Chemical Society, 2006, 128, 8112-8113.	6.6	131
6	Unfolded protein response-induced ER secretion links ER stress to extracellular proteostasis. EMBO Journal, 2015, 34, 4-19.	3.5	110
7	A Processive Protein Chimera Introduces Mutations across Defined DNA Regions <i>In Vivo</i> . Journal of the American Chemical Society, 2018, 140, 11560-11564.	6.6	75
8	ATF6 Activation Reduces the Secretion and Extracellular Aggregation of Destabilized Variants of an Amyloidogenic Protein. Chemistry and Biology, 2014, 21, 1564-1574.	6.2	63
9	An Adaptable Platform for Directed Evolution in Human Cells. Journal of the American Chemical Society, 2018, 140, 18093-18103.	6.6	52
10	Characterizing the Altered Cellular Proteome Induced by the Stress-Independent Activation of Heat Shock Factor 1. ACS Chemical Biology, 2014, 9, 1273-1283.	1.6	51
11	Mapping and Exploring the Collagen-I Proteostasis Network. ACS Chemical Biology, 2016, 11, 1408-1421.	1.6	44
12	SUMOylation and the HSF1-Regulated Chaperone Network Converge to Promote Proteostasis in Response to Heat Shock. Cell Reports, 2019, 26, 236-249.e4.	2.9	44
13	Directed evolution in mammalian cells. Nature Methods, 2021, 18, 346-357.	9.0	43
14	Broadly Applicable Methodology for the Rapid and Doseable Small Molecule-Mediated Regulation of Transcription Factors in Human Cells. Journal of the American Chemical Society, 2013, 135, 8129-8132.	6.6	42
15	XBP1s activation can globally remodel N-glycan structure distribution patterns. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10089-E10098.	3.3	41
16	In vivo hypermutation and continuous evolution. Nature Reviews Methods Primers, 2022, 2, .	11.8	39
17	Characterization of an A-Site Selective Protein Disulfide Isomerase A1 Inhibitor. Biochemistry, 2018, 57, 2035-2043.	1.2	38
18	XBP1s Links the Unfolded Protein Response to the Molecular Architecture of Mature N-Glycans. Chemistry and Biology, 2015, 22, 1301-1312.	6.2	35

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19	A cysteine-based molecular code informs collagen C-propeptide assembly. <i>Nature Communications</i> , 2018, 9, 4206.	5.8	35
20	Host proteostasis modulates influenza evolution. <i>ELife</i> , 2017, 6, .	2.8	34
21	Chemical Biology Framework to Illuminate Proteostasis. <i>Annual Review of Biochemistry</i> , 2020, 89, 529-555.	5.0	30
22	Transportable, Chemical Genetic Methodology for the Small Molecule-Mediated Inhibition of Heat Shock Factor 1. <i>ACS Chemical Biology</i> , 2016, 11, 200-210.	1.6	28
23	Destabilized adaptive influenza variants critical for innate immune system escape are potentiated by host chaperones. <i>PLoS Biology</i> , 2018, 16, e3000008.	2.6	28
24	Targeting defective proteostasis in the collagenopathies. <i>Current Opinion in Chemical Biology</i> , 2019, 50, 80-88.	2.8	25
25	Enhanced ER proteostasis and temperature differentially impact the mutational tolerance of influenza hemagglutinin. <i>ELife</i> , 2018, 7, .	2.8	25
26	Adapting Secretory Proteostasis and Function Through the Unfolded Protein Response. <i>Current Topics in Microbiology and Immunology</i> , 2017, 414, 1-25.	0.7	19
27	A Method for Selective Depletion of Zn(II) Ions from Complex Biological Media and Evaluation of Cellular Consequences of Zn(II) Deficiency. <i>Journal of the American Chemical Society</i> , 2018, 140, 2413-2416.	6.6	19
28	Thermal Proteome Profiling Reveals the O-GlcNAc-Dependent Meltome. <i>Journal of the American Chemical Society</i> , 2022, 144, 3833-3842.	6.6	19
29	A High-Throughput Assay for Collagen Secretion Suggests an Unanticipated Role for Hsp90 in Collagen Production. <i>Biochemistry</i> , 2018, 57, 2814-2827.	1.2	17
30	Mass Spectrometry-Based Proteomics to Define Intracellular Collagen Interactomes. <i>Methods in Molecular Biology</i> , 2019, 1944, 95-114.	0.4	12
31	Collagen's enigmatic, highly conserved N-glycan has an essential proteostatic function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
32	Elucidation of proteostasis defects caused by osteogenesis imperfecta mutations in the collagen- $\alpha 2(I)$ C-propeptide domain. <i>Journal of Biological Chemistry</i> , 2020, 295, 9959-9973.	1.6	8
33	CRISPR/Cas9 editing to generate a heterozygous COL2A1 p.G1170S human chondrodysplasia iPSC line, MCRli019-A-2, in a control iPSC line, MCRli019-A. <i>Stem Cell Research</i> , 2020, 48, 101962.	0.3	7
34	The endoplasmic reticulum proteostasis network profoundly shapes the protein sequence space accessible to HIV envelope. <i>PLoS Biology</i> , 2022, 20, e3001569.	2.6	7
35	Collagen misfolding mutations: the contribution of the unfolded protein response to the molecular pathology. <i>Connective Tissue Research</i> , 2022, 63, 210-227.	1.1	7
36	HSF1 Activation Can Restrict HIV Replication. <i>ACS Infectious Diseases</i> , 2020, 6, 1659-1666.	1.8	6

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37	A Sensitive, Nonradioactive Assay for Zn(II) Uptake into Metazoan Cells. <i>Biochemistry</i> , 2018, 57, 6807-6815.	1.2	4
38	Genetic Engineering by DNA Recombineering. <i>Current Protocols in Chemical Biology</i> , 2019, 11, e70.	1.7	2
39	The Path of Least Resistance: Mechanisms to Reduce Influenza's Sensitivity to Oseltamivir. <i>Journal of Molecular Biology</i> , 2016, 428, 533-537.	2.0	1