

# Elizabeth A Proctor

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,818  
citations

257357

24  
h-index

330025

37  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3170  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metformin Enhances Autophagy and Normalizes Mitochondrial Function to Alleviate Aging-Associated Inflammation. <i>Cell Metabolism</i> , 2020, 32, 44-55.e6.	7.2	321
2	Effect of Surface Treatment on Diffusion and Domain Formation in Supported Lipid Bilayers. <i>Biophysical Journal</i> , 2007, 92, 2445-2450.	0.2	173
3	Nonnative SOD1 trimer is toxic to motor neurons in a model of amyotrophic lateral sclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 614-619.	3.3	97
4	Fatty Acid Metabolites Combine with Reduced $\hat{I}^2$ Oxidation to Activate Th17 Inflammation in Human Type 2 Diabetes. <i>Cell Metabolism</i> , 2019, 30, 447-461.e5.	7.2	97
5	Discrete molecular dynamics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011, 1, 80-92.	6.2	91
6	Structural and Dynamic Determinants of Protein-Peptide Recognition. <i>Structure</i> , 2011, 19, 1837-1845.	1.6	79
7	Glutathionylation at Cys-111 Induces Dissociation of Wild Type and FALS Mutant SOD1 Dimers. <i>Biochemistry</i> , 2011, 50, 7057-7066.	1.2	75
8	Neurovascular coupling and bilateral connectivity during NREM and REM sleep. <i>ELife</i> , 2020, 9, .	2.8	66
9	Genital Systemic Chemokine Gradients and the Risk of HIV Acquisition in Women. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2017, 74, 318-325.	0.9	64
10	Identification of neurotoxic cytokines by profiling Alzheimer's disease tissues and neuron culture viability screening. <i>Scientific Reports</i> , 2015, 5, 16622.	1.6	61
11	Advances in the quantification of mitochondrial function in primary human immune cells through extracellular flux analysis. <i>PLoS ONE</i> , 2017, 12, e0170975.	1.1	61
12	Applications of Discrete Molecular Dynamics in biology and medicine. <i>Current Opinion in Structural Biology</i> , 2016, 37, 9-13.	2.6	59
13	Fast screening of protein surfaces using geometric invariant fingerprints. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16622-16626.	3.3	58
14	Rational coupled dynamics network manipulation rescues disease-relevant mutant cystic fibrosis transmembrane conductance regulator. <i>Chemical Science</i> , 2015, 6, 1237-1246.	3.7	49
15	Cu,Zn-Superoxide Dismutase without Zn Is Folded but Catalytically Inactive. <i>Journal of Molecular Biology</i> , 2014, 426, 4112-4124.	2.0	47
16	Structural and Thermodynamic Effects of Post-translational Modifications in Mutant and Wild Type Cu, Zn Superoxide Dismutase. <i>Journal of Molecular Biology</i> , 2011, 408, 555-567.	2.0	43
17	Computational approaches to understanding protein aggregation in neurodegeneration. <i>Journal of Molecular Cell Biology</i> , 2014, 6, 104-115.	1.5	43
18	A Phosphomimetic Mutation Stabilizes SOD1 and Rescues Cell Viability in the Context of an ALS-Associated Mutation. <i>Structure</i> , 2016, 24, 1898-1906.	1.6	41

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19	Computational translation of genomic responses from experimental model systems to humans. <i>PLoS Computational Biology</i> , 2019, 15, e1006286.	1.5	37
20	Discrete Molecular Dynamics Distinguishes Nativelike Binding Poses from Decoys in Difficult Targets. <i>Biophysical Journal</i> , 2012, 102, 144-151.	0.2	31
21	Astrocytic Propagation of Tau in the Context of Alzheimer's Disease. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 645233.	1.8	31
22	Coagulopathy signature precedes and predicts severity of end-organ heat stroke pathology in a mouse model. <i>Journal of Thrombosis and Haemostasis</i> , 2020, 18, 1900-1910.	1.9	30
23	Multivariate Computational Analysis of Gamma Delta T Cell Inhibitory Receptor Signatures Reveals the Divergence of Healthy and ART-Suppressed HIV+ Aging. <i>Frontiers in Immunology</i> , 2018, 9, 2783.	2.2	29
24	Î <sup>2</sup> -Methylamino-L-alanine substitution of serine in SOD1 suggests a direct role in ALS etiology. <i>PLoS Computational Biology</i> , 2019, 15, e1007225.	1.5	27
25	Increased Expression and Modulated Regulatory Activity of Coinhibitory Receptors <i>CD1</i> , <i>TIGIT</i> , and <i>TIM-3</i> in Lymphocytes From Patients With Systemic Sclerosis. <i>Arthritis and Rheumatology</i> , 2018, 70, 566-577.	2.9	26
26	Traffic within the Cytochrome b <sub>6</sub> f Lipoprotein Complex: Gating of the Quinone Portal. <i>Biophysical Journal</i> , 2014, 107, 1620-1628.	0.2	20
27	Pathogen-specific antimicrobials engineered de novo through membrane-protein biomimicry. <i>Nature Biomedical Engineering</i> , 2021, 5, 467-480.	11.6	17
28	Ligand binding to a remote site thermodynamically corrects the F508del mutation in the human cystic fibrosis transmembrane conductance regulator. <i>Journal of Biological Chemistry</i> , 2018, 293, 17685-17704.	1.6	9
29	Monosialotetrahexosylganglioside Promotes Early AÎ <sup>242</sup> Oligomer Formation and Maintenance. <i>ACS Chemical Neuroscience</i> , 2022, 13, 1979-1991.	1.7	6
30	Highly covarying residues have a functional role in antibody constant domains. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 884-895.	1.5	5
31	Thermal Unfolding Pathway of PHD2 Catalytic Domain in Three Different PHD2 Species: Computational Approaches. <i>PLoS ONE</i> , 2012, 7, e47061.	1.1	4
32	A Non-local Model of the Propagation of Action Potentials in Myelinated Neurons. <i>Emerging Science Journal</i> , 2020, 4, 148-164.	1.4	4
33	Protein HP1028 from the human pathogen <i>Helicobacter pylori</i> belongs to the lipocalin family. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 1387-1394.	2.5	3
34	A Folding Pathway-Dependent Score to Recognize Membrane Proteins. <i>PLoS ONE</i> , 2011, 6, e16778.	1.1	3
35	A hidden aggregation-prone structure in the heart of hypoxia inducible factor prolyl hydroxylase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 611-623.	1.5	2
36	Sexually dimorphic impact of the iron-regulating gene, HFE, on survival in glioblastoma. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa001.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Post-Translational Modifications Promote Formation of SOD1 Oligomers with Potential Toxicity in ALS. Biophysical Journal, 2014, 106, 33a-34a.	0.2	1
38	Metric to Distinguish Closely Related Domain Families Using Sequence Information. Journal of Molecular Biology, 2013, 425, 475-478.	2.0	0