

Michael G Friedrich

List of Publications by Year in descending order

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papers

978
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471509

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526287

27
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all docs

32
docs citations

32
times ranked

1026
citing authors

#	ARTICLE	IF	CITATIONS
1	Presbyopia and heat: changes associated with aging of the human lens suggest a functional role for the small heat shock protein, α -crystallin, in maintaining lens flexibility. <i>Aging Cell</i> , 2007, 6, 807-815.	6.7	113
2	The etiology of human age-related cataract. Proteins don't last forever. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 192-198.	2.4	90
3	Old Proteins in Man: A Field in its Infancy. <i>Trends in Biochemical Sciences</i> , 2016, 41, 654-664.	7.5	84
4	Sphingolipid distribution changes with age in the human lens. <i>Journal of Lipid Research</i> , 2010, 51, 2753-2760.	4.2	66
5	Free and Bound Water in Normal and Cataractous Human Lenses. , 2008, 49, 1991.		50
6	Membrane Association of Proteins in the Aging Human Lens: Profound Changes Take Place in the Fifth Decade of Life. , 2009, 50, 4786.		50
7	Human prefrontal cortex phospholipids containing docosahexaenoic acid increase during normal adult aging, whereas those containing arachidonic acid decrease. <i>Neurobiology of Aging</i> , 2015, 36, 1659-1669.	3.1	50
8	Molecular Processes Implicated in Human Age-Related Nuclear Cataract. , 2019, 60, 5007.		40
9	Large-Scale Binding of α -Crystallin to Cell Membranes of Aged Normal Human Lenses: A Phenomenon That Can Be Induced by Mild Thermal Stress. , 2010, 51, 5145.		34
10	Isoaspartic acid is present at specific sites in myelin basic protein from multiple sclerosis patients: could this represent a trigger for disease onset?. <i>Acta Neuropathologica Communications</i> , 2016, 4, 83.	5.2	34
11	Amyloid Plaque in the Human Brain Can Decompose from $A\beta(1-40/1-42)$ by Spontaneous Nonenzymatic Processes. <i>Analytical Chemistry</i> , 2016, 88, 2675-2684.	6.5	32
12	Decreases in Phospholipids Containing Adrenic and Arachidonic Acids Occur in the Human Hippocampus over the Adult Lifespan. <i>Lipids</i> , 2015, 50, 861-872.	1.7	30
13	Spatiotemporal changes in the human lens proteome: Critical insights into long-lived proteins. <i>Progress in Retinal and Eye Research</i> , 2020, 76, 100802.	15.5	30
14	Is protein methylation in the human lens a result of non-enzymatic methylation by S-adenosylmethionine?. <i>Experimental Eye Research</i> , 2012, 99, 48-54.	2.6	28
15	Molecular signatures of long-lived proteins: autolytic cleavage adjacent to serine residues. <i>Aging Cell</i> , 2012, 11, 1125-1127.	6.7	27
16	Cleavage C-terminal to Asp leads to covalent crosslinking of long-lived human proteins. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 831-839.	2.3	25
17	The phospholipid composition of the human entorhinal cortex remains relatively stable over 80 years of adult aging. <i>GeroScience</i> , 2017, 39, 73-82.	4.6	24
18	Tight binding of proteins to membranes from older human cells. <i>Age</i> , 2011, 33, 543-554.	3.0	23

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19	Mechanism of protein cleavage at asparagine leading to proteinâ€“protein cross-links. <i>Biochemical Journal</i> , 2019, 476, 3817-3834.	3.7	22
20	Degradation of an Old Human Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 39012-39020.	3.4	20
21	Spontaneous cross-linking of proteins at aspartate and asparagine residues is mediated via a succinimide intermediate. <i>Biochemical Journal</i> , 2018, 475, 3189-3200.	3.7	20
22	Understanding the Î±-crystallin cell membrane conjunction. <i>Molecular Vision</i> , 2011, 17, 2798-807.	1.1	18
23	Hotspots of age-related protein degradation: the importance of neighboring residues for the formation of non-disulfide crosslinks derived from cysteine. <i>Biochemical Journal</i> , 2017, 474, 2475-2487.	3.7	15
24	Old proteins and the <sc>A</sc>chilles heel of mass spectrometry. The role of proteomics in the etiology of human cataract. <i>Proteomics - Clinical Applications</i> , 2014, 8, 195-203.	1.6	13
25	Tau Is Truncated in Five Regions of the Normal Adult Human Brain. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3521.	4.1	10
26	Can the Fact That Myelin Proteins Are Old and Break down Explain the Origin of Multiple Sclerosis in Some People?. <i>Journal of Clinical Medicine</i> , 2018, 7, 281.	2.4	8
27	DehydroalanylGly, a new post translational modification resulting from the breakdown of glutathione. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 907-913.	2.4	7
28	Spontaneous proteinâ€“protein crosslinking at glutamine and glutamic acid residues in long-lived proteins. <i>Biochemical Journal</i> , 2021, 478, 327-339.	3.7	5
29	New insights into the mechanisms of age-related protein-protein crosslinking in the human lens. <i>Experimental Eye Research</i> , 2021, 209, 108679.	2.6	4
30	Spontaneous Cleavage at Glu and Gln Residues in Long-Lived Proteins. <i>ACS Chemical Biology</i> , 2021, 16, 2244-2254.	3.4	4
31	Changes in Phospholipid Composition of the Human Cerebellum and Motor Cortex during Normal Ageing. <i>Nutrients</i> , 2022, 14, 2495.	4.1	2