

Tilman Grune

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

366 papers	24,452 citations	74 h-index	145 g-index
397 ext. papers	27,480 ext. citations	5.6 avg, IF	6.98 L-index

#	Paper	IF	Citations
366	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
365	Degradation of oxidized proteins in mammalian cells. <i>FASEB Journal</i> , 1997 , 11, 526-534	0.9	718
364	Role of advanced glycation end products in cellular signaling. <i>Redox Biology</i> , 2014 , 2, 411-29	11.3	651
363	Advanced glycation end products and oxidative stress in type 2 diabetes mellitus. <i>Biomolecules</i> , 2015 , 5, 194-222	5.9	529
362	Decreased proteolysis caused by protein aggregates, inclusion bodies, plaques, lipofuscin, ceroid, and Aggresomes during oxidative stress, aging, and disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2004 , 36, 2519-30	5.6	510
361	Clinical Relevance of Biomarkers of Oxidative Stress. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 1144-708.4	4	415
360	Selective degradation of oxidatively modified protein substrates by the proteasome. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 305, 709-18	3.4	397
359	Comparative resistance of the 20S and 26S proteasome to oxidative stress. <i>Biochemical Journal</i> , 1998 , 335 (Pt 3), 637-42	3.8	387
358	Proteasome inhibition by paired helical filament-tau in brains of patients with Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2003 , 85, 115-22	6	379
357	Proteolysis in cultured liver epithelial cells during oxidative stress. Role of the multicatalytic proteinase complex, proteasome. <i>Journal of Biological Chemistry</i> , 1995 , 270, 2344-51	5.4	342
356	Ubiquitin conjugation is not required for the degradation of oxidized proteins by proteasome. <i>Journal of Biological Chemistry</i> , 2003 , 278, 311-8	5.4	333
355	The proteasomal system. <i>Molecular Aspects of Medicine</i> , 2009 , 30, 191-296	16.7	315
354	Beta-carotene is an important vitamin A source for humans. <i>Journal of Nutrition</i> , 2010 , 140, 2268S-2285S.1	4.1	295
353	Pathological aspects of lipid peroxidation. <i>Free Radical Research</i> , 2010 , 44, 1125-71	4	288
352	Lipofuscin: formation, distribution, and metabolic consequences. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1119, 97-111	6.5	276
351	Degradation of oxidized proteins in K562 human hematopoietic cells by proteasome. <i>Journal of Biological Chemistry</i> , 1996 , 271, 15504-9	5.4	269
350	Proteasome inhibition by lipofuscin/ceroid during postmitotic aging of fibroblasts. <i>FASEB Journal</i> , 2000 , 14, 1490-1498	0.9	261

349	The immunoproteasome, the 20S proteasome and the PA28 β proteasome regulator are oxidative-stress-adaptive proteolytic complexes. <i>Biochemical Journal</i> , 2010 , 432, 585-94	3.8	232
348	Poly-ADP ribose polymerase activates nuclear proteasome to degrade oxidatively damaged histones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 6223-8	11.5	215
347	Proteasome inhibition by lipofuscin/ceroid during postmitotic aging of fibroblasts. <i>FASEB Journal</i> , 2000 , 14, 1490-8	0.9	209
346	Peroxynitrite increases the degradation of aconitase and other cellular proteins by proteasome. <i>Journal of Biological Chemistry</i> , 1998 , 273, 10857-62	5.4	208
345	Protein oxidation and degradation during cellular senescence of human BJ fibroblasts: part I--effects of proliferative senescence. <i>FASEB Journal</i> , 2000 , 14, 2495-502	0.9	188
344	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017 , 13, 94-162	11.3	185
343	Oxygen causes cell death in the developing brain. <i>Neurobiology of Disease</i> , 2004 , 17, 273-82	7.5	183
342	Lipofuscin: formation, effects and role of macroautophagy. <i>Redox Biology</i> , 2013 , 1, 140-4	11.3	179
341	Determination of protein carbonyls in plasma, cell extracts, tissue homogenates, isolated proteins: Focus on sample preparation and derivatization conditions. <i>Redox Biology</i> , 2015 , 5, 367-380	11.3	174
340	Age-associated analysis of oxidative stress parameters in human plasma and erythrocytes. <i>Free Radical Research</i> , 2006 , 40, 495-505	4	172
339	The proteasomal system and HNE-modified proteins. <i>Molecular Aspects of Medicine</i> , 2003 , 24, 195-204	16.7	170
338	Differential impairment of 20S and 26S proteasome activities in human hematopoietic K562 cells during oxidative stress. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 377, 65-8	4.1	167
337	Happily (n)ever after: Aging in the context of oxidative stress, proteostasis loss and cellular senescence. <i>Redox Biology</i> , 2017 , 11, 482-501	11.3	165
336	Protein damage, repair and proteolysis. <i>Molecular Aspects of Medicine</i> , 2014 , 35, 1-71	16.7	165
335	Immunoproteasome and LMP2 polymorphism in aged and Alzheimer's disease brains. <i>Neurobiology of Aging</i> , 2006 , 27, 54-66	5.6	162
334	Protein oxidation in aging and the removal of oxidized proteins. <i>Journal of Proteomics</i> , 2013 , 92, 132-59	3.9	158
333	HSP70 mediates dissociation and reassociation of the 26S proteasome during adaptation to oxidative stress. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 1355-64	7.8	158
332	Iron oxide particles for molecular magnetic resonance imaging cause transient oxidative stress in rat macrophages. <i>Free Radical Biology and Medicine</i> , 2004 , 36, 976-84	7.8	158

331	Intracellular metabolism of 4-hydroxynonenal. <i>Molecular Aspects of Medicine</i> , 2003 , 24, 167-75	16.7	158
330	Regulation of proteasome-mediated protein degradation during oxidative stress and aging. <i>Biological Chemistry</i> , 2008 , 389, 203-9	4.5	147
329	MARK-AGE biomarkers of ageing. <i>Mechanisms of Ageing and Development</i> , 2015 , 151, 2-12	5.6	145
328	Proteasome-dependent degradation of oxidized proteins in MRC-5 fibroblasts. <i>FEBS Letters</i> , 1998 , 440, 399-402	3.8	145
327	Protein oxidation and degradation during cellular senescence of human BJ fibroblasts: part II--aging of nondividing cells. <i>FASEB Journal</i> , 2000 , 14, 2503-10	0.9	138
326	Phosphorylation inhibits turnover of the tau protein by the proteasome: influence of RCAN1 and oxidative stress. <i>Biochemical Journal</i> , 2006 , 400, 511-20	3.8	137
325	The proteasome and its role in the degradation of oxidized proteins. <i>IUBMB Life</i> , 2008 , 60, 743-52	4.7	131
324	Protein oxidation and degradation during proliferative senescence of human MRC-5 fibroblasts. <i>Free Radical Biology and Medicine</i> , 2000 , 28, 701-8	7.8	131
323	Oxidative stress, aging and the proteasomal system. <i>Biogerontology</i> , 2000 , 1, 31-40	4.5	129
322	The proteasome and the degradation of oxidized proteins: Part II - protein oxidation and proteasomal degradation. <i>Redox Biology</i> , 2014 , 2, 99-104	11.3	118
321	Proteostasis, oxidative stress and aging. <i>Redox Biology</i> , 2017 , 13, 550-567	11.3	117
320	Molecular strategies to prevent, inhibit, and degrade advanced glycoxidation and advanced lipoxidation end products. <i>Free Radical Research</i> , 2013 , 47 Suppl 1, 93-137	4	109
319	Proteasomal defense of oxidative protein modifications. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 173-84	8.4	105
318	4-Hydroxynonenal (HNE) modified proteins in metabolic diseases. <i>Free Radical Biology and Medicine</i> , 2017 , 111, 309-315	7.8	104
317	Lipofuscin-bound iron is a major intracellular source of oxidants: role in senescent cells. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 1100-8	7.8	104
316	Protein Oxidation in Aging: Does It Play a Role in Aging Progression?. <i>Antioxidants and Redox Signaling</i> , 2015 , 23, 239-55	8.4	103
315	Protein oxidation and proteolysis by the nonradical oxidants singlet oxygen or peroxynitrite. <i>Free Radical Biology and Medicine</i> , 2001 , 30, 1243-53	7.8	101
314	The proteasome and the degradation of oxidized proteins: part III-Redox regulation of the proteasomal system. <i>Redox Biology</i> , 2014 , 2, 388-94	11.3	99

313	A diet rich in olive oil phenolics reduces oxidative stress in the heart of SAMP8 mice by induction of Nrf2-dependent gene expression. <i>Rejuvenation Research</i> , 2012 , 15, 71-81	2.6	98
312	Lipofuscin accumulation in proliferating fibroblasts in vitro: an indicator of oxidative stress. <i>Experimental Gerontology</i> , 2001 , 36, 475-86	4.5	98
311	Reversible inhibition of mammalian glutamine synthetase by tyrosine nitration. <i>FEBS Letters</i> , 2007 , 581, 84-90	3.8	95
310	Pathophysiological importance of aggregated damaged proteins. <i>Free Radical Biology and Medicine</i> , 2014 , 71, 70-89	7.8	94
309	The contribution of β -carotene to vitamin A supply of humans. <i>Molecular Nutrition and Food Research</i> , 2012 , 56, 251-8	5.9	92
308	Vimentin is the specific target in skin glycation. Structural prerequisites, functional consequences, and role in skin aging. <i>Journal of Biological Chemistry</i> , 2007 , 282, 23427-36	5.4	91
307	Lipofuscin inhibits the proteasome by binding to surface motifs. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 585-91	7.8	90
306	Dietary advanced glycation end products and their relevance for human health. <i>Ageing Research Reviews</i> , 2018 , 47, 55-66	12	90
305	Protein oxidation and degradation during postmitotic senescence. <i>Free Radical Biology and Medicine</i> , 2005 , 39, 1208-15	7.8	88
304	Oxidized proteins as a marker of oxidative stress during coronary heart surgery. <i>Free Radical Biology and Medicine</i> , 1999 , 27, 1080-6	7.8	88
303	Validation of protein carbonyl measurement: a multi-centre study. <i>Redox Biology</i> , 2015 , 4, 149-57	11.3	86
302	Neuronal apoptotic bodies: phagocytosis and degradation by primary microglial cells. <i>FASEB Journal</i> , 2004 , 18, 743-5	0.9	85
301	Measurement of HNE-protein adducts in human plasma and serum by ELISA-Comparison of two primary antibodies. <i>Redox Biology</i> , 2013 , 1, 226-33	11.3	84
300	Hydrogen peroxide-induced structural alterations of RNase A. <i>Journal of Biological Chemistry</i> , 2001 , 276, 9492-502	5.4	83
299	Increased levels of 4-hydroxynonenal modified proteins in plasma of children with autoimmune diseases. <i>Free Radical Biology and Medicine</i> , 1997 , 23, 357-60	7.8	82
298	Relationship between inflammation and oxidative stress and cognitive decline in the institutionalized elderly. <i>Oxidative Medicine and Cellular Longevity</i> , 2015 , 2015, 804198	6.7	81
297	Epigenetic effects of selenium and their implications for health. <i>Epigenetics</i> , 2015 , 10, 179-90	5.7	79
296	Short overview on metabolomics approach to study pathophysiology of oxidative stress in cancer. <i>Redox Biology</i> , 2018 , 14, 47-58	11.3	78

295	The two faces of reactive oxygen species (ROS) in adipocyte function and dysfunction. <i>Biological Chemistry</i> , 2016 , 397, 709-24	4.5	78
294	Increased levels of lipid peroxidation products malondialdehyde and 4-hydroxynonenal after perinatal hypoxia. <i>Pediatric Research</i> , 1996 , 40, 15-20	3.2	76
293	4-Hydroxynonenal formation during ischemia and reperfusion of rat small intestine. <i>Life Sciences</i> , 1995 , 57, 785-9	6.8	74
292	The molecular chaperone Hsp70 promotes the proteolytic removal of oxidatively damaged proteins by the proteasome. <i>Free Radical Biology and Medicine</i> , 2016 , 99, 153-166	7.8	74
291	Protein oxidative modifications in the ageing brain: consequence for the onset of neurodegenerative disease. <i>Free Radical Research</i> , 2011 , 45, 73-88	4	73
290	The proteasome and the degradation of oxidized proteins: Part I-structure of proteasomes. <i>Redox Biology</i> , 2013 , 1, 178-82	11.3	72
289	Telomere length as a marker of oxidative stress in primary human fibroblast cultures. <i>Annals of the New York Academy of Sciences</i> , 2000 , 908, 327-30	6.5	72
288	Anti-fibrosclerotic effects of shock wave therapy in lipedema and cellulite. <i>BioFactors</i> , 2005 , 24, 275-82	6.1	72
287	Hydrogen peroxide-mediated protein oxidation in young and old human MRC-5 fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 375, 50-4	4.1	68
286	Lipofuscin: detection and quantification by microscopic techniques. <i>Methods in Molecular Biology</i> , 2010 , 594, 173-93	1.4	67
285	Oxidation-induced ferritin turnover in microglial cells: role of proteasome. <i>Free Radical Biology and Medicine</i> , 2005 , 38, 276-85	7.8	66
284	Proteolysis, caloric restriction and aging. <i>Mechanisms of Ageing and Development</i> , 2001 , 122, 595-615	5.6	66
283	Lysosomal, cytoskeletal, and metabolic alterations in cardiomyopathy of cathepsin L knockout mice. <i>FASEB Journal</i> , 2006 , 20, 1266-8	0.9	65
282	Protein oxidation and proteolysis. <i>Biological Chemistry</i> , 2006 , 387, 1351-5	4.5	65
281	Mitochondrial contribution to lipofuscin formation. <i>Redox Biology</i> , 2017 , 11, 673-681	11.3	64
280	Advanced-glycation-end-product-induced formation of immunoproteasomes: involvement of RAGE and Jak2/STAT1. <i>Biochemical Journal</i> , 2012 , 448, 127-39	3.8	63
279	Markers of oxidative stress in ICU clinical settings: present and future. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2007 , 10, 712-7	3.8	63
278	Oxidized proteins: intracellular distribution and recognition by the proteasome. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 462, 231-7	4.1	63

277	The consequences of acute cold exposure on protein oxidation and proteasome activity in short-tailed field voles, <i>Microtus agrestis</i> . <i>Free Radical Biology and Medicine</i> , 2002 , 33, 259-65	7.8	63
276	Oxidative stress markers and micronutrients in maternal and cord blood in relation to neonatal outcome. <i>European Journal of Clinical Nutrition</i> , 2014 , 68, 215-22	5.2	62
275	Age-related differences in oxidative protein-damage in young and senescent fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 483, 127-35	4.1	62
274	Increased levels of 4-hydroxynonenal in human monocytes fed with malarial pigment hemozoin. A possible clue for hemozoin toxicity. <i>FEBS Letters</i> , 1996 , 388, 119-22	3.8	61
273	Tau protein degradation is catalyzed by the ATP/ubiquitin-independent 20S proteasome under normal cell conditions. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 500, 181-8	4.1	60
272	Insulin-degrading enzyme: new therapeutic target for diabetes and Alzheimer's disease?. <i>Annals of Medicine</i> , 2016 , 48, 614-624	1.5	59
271	Intracellular distribution of oxidized proteins and proteasome in HT22 cells during oxidative stress. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 1303-12	7.8	59
270	Proteolysis of oxidised proteins and cellular senescence. <i>Experimental Gerontology</i> , 2000 , 35, 779-86	4.5	58
269	In Search of Omics-Based Biomarkers to Predict Risk of Frailty and Its Consequences in Older Individuals: The FRAILOMIC Initiative. <i>Gerontology</i> , 2016 , 62, 182-90	5.5	57
268	Protein oxidative modification in the aging organism and the role of the ubiquitin proteasomal system. <i>Current Pharmaceutical Design</i> , 2011 , 17, 4007-22	3.3	57
267	Protein modification elicited by oxidized low-density lipoprotein (LDL) in endothelial cells: protection by (-)-epicatechin. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 955-70	7.8	57
266	Do people living with HIV experience greater age advancement than their HIV-negative counterparts?. <i>Aids</i> , 2019 , 33, 259-268	3.5	56
265	4-Hydroxynonenal impairs the permeability of an in vitro rat blood-brain barrier. <i>Neuroscience Letters</i> , 2001 , 314, 135-8	3.3	56
264	The transition zone protein Rpgrip1l regulates proteasomal activity at the primary cilium. <i>Journal of Cell Biology</i> , 2015 , 210, 115-33	7.3	54
263	Protein oxidation and degradation during aging: role in skin aging and neurodegeneration. <i>Free Radical Research</i> , 2006 , 40, 1259-68	4	54
262	Proteasomal degradation of oxidatively damaged endogenous histones in K562 human leukemic cells. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 887-93	7.8	54
261	Optimized separation of purine bases and nucleosides in human cord plasma by capillary zone electrophoresis. <i>Journal of Chromatography A</i> , 1993 , 636, 105-11	4.5	54
260	Accumulation of modified proteins and aggregate formation in aging. <i>Experimental Gerontology</i> , 2014 , 57, 122-31	4.5	53

259	Modifications of glyceraldehyde-3-phosphate dehydrogenase induced by increasing concentrations of peroxynitrite: early recognition by 20S proteasome. <i>Biological Chemistry</i> , 2003 , 384, 237-41	4.5	53
258	The proteasome is an integral part of solar ultraviolet a radiation-induced gene expression. <i>Journal of Biological Chemistry</i> , 2009 , 284, 30076-86	5.4	52
257	Age-dependent expression of DNMT1 and DNMT3B in PBMCs from a large European population enrolled in the MARK-AGE study. <i>Aging Cell</i> , 2016 , 15, 755-65	9.9	51
256	Plasma levels of HDL and carotenoids are lower in dementia patients with vascular comorbidities. <i>Journal of Alzheimer's Disease</i> , 2014 , 40, 399-408	4.3	50
255	Reexamination of a meta-analysis of the effect of antioxidant supplementation on mortality and health in randomized trials. <i>Nutrients</i> , 2010 , 2, 929-49	6.7	50
254	An inter-laboratory validation of methods of lipid peroxidation measurement in UVA-treated human plasma samples. <i>Free Radical Research</i> , 2010 , 44, 1203-15	4	50
253	Proteasome inhibitors in cancer therapy: Treatment regimen and peripheral neuropathy as a side effect. <i>Free Radical Biology and Medicine</i> , 2017 , 103, 1-13	7.8	49
252	Captive roe deer (<i>Capreolus capreolus</i>) select for low amounts of tannic acid but not quebracho: fluctuation of preferences and potential benefits. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003 , 136, 369-82	2.3	49
251	Oxidative protein damage and the proteasome. <i>Amino Acids</i> , 2012 , 42, 23-38	3.5	48
250	Macroautophagy is impaired in old murine brain tissue as well as in senescent human fibroblasts. <i>Redox Biology</i> , 2016 , 10, 266-273	11.3	48
249	The use of total antioxidant capacity as surrogate marker for food quality and its effect on health is to be discouraged. <i>Nutrition</i> , 2014 , 30, 791-3	4.8	47
248	Carbonylation of the cytoskeletal protein actin leads to aggregate formation. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 916-25	7.8	47
247	Identification of metabolic pathways of the lipid peroxidation product 4-hydroxynonenal by mitochondria isolated from rat kidney cortex. <i>FEBS Letters</i> , 1994 , 352, 84-6	3.8	46
246	Short overview on metabolomic approach and redox changes in psychiatric disorders. <i>Redox Biology</i> , 2018 , 14, 178-186	11.3	45
245	Lipofuscin is formed independently of macroautophagy and lysosomal activity in stress-induced prematurely senescent human fibroblasts. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 1760-9	7.8	45
244	Chromatin repair after oxidative stress: role of PARP-mediated proteasome activation. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 673-80	7.8	45
243	Degradation of glycated bovine serum albumin in microglial cells. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 1017-27	7.8	45
242	Inverse correlation of protein oxidation and proteasome activity in liver and lung. <i>Mechanisms of Ageing and Development</i> , 2009 , 130, 748-53	5.6	44

241	The proteasome and its function in the ageing process. <i>Clinical and Experimental Dermatology</i> , 2001 , 26, 566-72	1.8	44
240	Turnover of oxidatively damaged nuclear proteins in BV-2 microglial cells is linked to their activation state by poly-ADP-ribose polymerase. <i>FASEB Journal</i> , 2001 , 15, 1460-2	0.9	44
239	Short-term CR decreases cardiac mitochondrial oxidant production but increases carbonyl content. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 286, R254-9	3.2	43
238	Diet-derived advanced glycation end products or lipofuscin disrupts proteostasis and reduces life span in <i>Drosophila melanogaster</i> . <i>Free Radical Biology and Medicine</i> , 2013 , 65, 1155-1163	7.8	42
237	Protein oxidation and proteolysis in RAW264.7 macrophages: effects of PMA activation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2001 , 1538, 321-8	4.9	42
236	Cathepsins D and L reduce the toxicity of advanced glycation end products. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 1011-23	7.8	41
235	Method for the simultaneous determination of free/protein malondialdehyde and lipid/protein hydroperoxides. <i>Free Radical Biology and Medicine</i> , 2013 , 59, 27-35	7.8	41
234	Proteolytic response to oxidative stress in mammalian cells. <i>Biological Chemistry</i> , 2002 , 383, 559-67	4.5	41
233	Influence of DNA binding on the degradation of oxidized histones by the 20S proteasome. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 362, 211-6	4.1	41
232	Impaired proteostasis during skeletal muscle aging. <i>Free Radical Biology and Medicine</i> , 2019 , 132, 58-66	7.8	41
231	Cathepsin D is one of the major enzymes involved in intracellular degradation of AGE-modified proteins. <i>Free Radical Research</i> , 2010 , 44, 1013-26	4	40
230	Oxidative stress related changes in the brain of hypercholesterolemic rabbits. <i>BioFactors</i> , 2008 , 33, 225-36	3.6	40
229	Interactions of the proteasomal system with chaperones: protein triage and protein quality control. <i>Progress in Molecular Biology and Translational Science</i> , 2012 , 109, 113-60	4	39
228	Proteasome-dependent turnover of protein disulfide isomerase in oxidatively stressed cells. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 397, 407-13	4.1	39
227	Alpha-lipoic acid prevents ethanol-induced protein oxidation in mouse hippocampal HT22 cells. <i>Neuroscience Letters</i> , 2002 , 328, 93-6	3.3	38
226	PARP-mediated proteasome activation: a co-ordination of DNA repair and protein degradation?. <i>BioEssays</i> , 2002 , 24, 1060-5	4.1	37
225	Oxidative stress in chronic lymphoedema. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2002 , 95, 803-9	2.7	37
224	Methionine restriction prevents onset of type 2 diabetes in NZO mice. <i>FASEB Journal</i> , 2019 , 33, 7092-7102	10.29	36

223	Chaperones, but not oxidized proteins, are ubiquitinated after oxidative stress. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 1468-77	7.8	36
222	High pressure-assisted encapsulation of vitamin D2 in reassembled casein micelles. <i>High Pressure Research</i> , 2011 , 31, 265-274	1.6	35
221	Effects of water-filtered infrared A irradiation on human fibroblasts. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 153-60	7.8	35
220	Ezrin turnover and cell shape changes catalyzed by proteasome in oxidatively stressed cells. <i>FASEB Journal</i> , 2002 , 16, 1602-10	0.9	35
219	Selenium increases hepatic DNA methylation and modulates one-carbon metabolism in the liver of mice. <i>Journal of Nutritional Biochemistry</i> , 2017 , 48, 112-119	6.3	34
218	Biomarkers of protein oxidation from a chemical, biological and medical point of view. <i>Experimental Gerontology</i> , 2010 , 45, 733-7	4.5	34
217	Nitrotyrosine and protein carbonyls are equally distributed in HT22 cells after nitrosative stress. <i>Free Radical Biology and Medicine</i> , 2007 , 42, 773-86	7.8	34
216	The proteasome and its role in nuclear protein maintenance. <i>Experimental Gerontology</i> , 2007 , 42, 864-70	4.5	34
215	Peroxynitrite: From interception to signaling. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 595, 153-60	4.1	34
214	Toxicity of fluoride: critical evaluation of evidence for human developmental neurotoxicity in epidemiological studies, animal experiments and in vitro analyses. <i>Archives of Toxicology</i> , 2020 , 94, 1375-1415	5.8	33
213	Increased loading of vitamin D in reassembled casein micelles with temperature-modulated high pressure treatment. <i>Food Research International</i> , 2014 , 64, 74-80	7	33
212	Rapid and sensitive determination of protein-nitrotyrosine by ELISA: Application to human plasma. <i>Free Radical Research</i> , 2012 , 46, 276-85	4	33
211	The relationships between exogenous and endogenous antioxidants with the lipid profile and oxidative damage in hemodialysis patients. <i>BMC Nephrology</i> , 2011 , 12, 59	2.7	33
210	Hyperammonemia causes protein oxidation and enhanced proteasomal activity in response to mitochondria-mediated oxidative stress in rat primary astrocytes. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 464, 1-11	4.1	33
209	Sarcopenia - Molecular mechanisms and open questions. <i>Ageing Research Reviews</i> , 2021 , 65, 101200	12	33
208	Effects of selenium deficiency on fatty acid metabolism in rats fed fish oil-enriched diets. <i>Journal of Trace Elements in Medicine and Biology</i> , 2004 , 18, 89-97	4.1	32
207	Functional interaction of poly(ADP-ribose) with the 20S proteasome in vitro. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 259, 576-81	3.4	32
206	Cross-talk between lipid and protein carbonylation in a dynamic cardiomyocyte model of mild nitrooxidative stress. <i>Redox Biology</i> , 2017 , 11, 438-455	11.3	31

205	Dose- and wavelength-dependent oxidation of crystallins by UV light--selective recognition and degradation by the 20S proteasome. <i>Free Radical Biology and Medicine</i> , 1998 , 24, 1369-74	7.8	31
204	Enrichment of eggs with n-3 polyunsaturated fatty acids: effects of vitamin E supplementation. <i>Lipids</i> , 2001 , 36, 833-8	1.6	31
203	Analysis of the machinery and intermediates of the 5hmC-mediated DNA demethylation pathway in aging on samples from the MARK-AGE Study. <i>Aging</i> , 2016 , 8, 1896-1922	5.6	31
202	MARK-AGE standard operating procedures (SOPs): A successful effort. <i>Mechanisms of Ageing and Development</i> , 2015 , 151, 18-25	5.6	30
201	The Influence of Dietary Habits and Meat Consumption on Plasma 3-Methylhistidine-A Potential Marker for Muscle Protein Turnover. <i>Molecular Nutrition and Food Research</i> , 2018 , 62, e1701062	5.9	30
200	Structure of the proteasome. <i>Progress in Molecular Biology and Translational Science</i> , 2012 , 109, 1-39	4	30
199	Having it all: historical energy intakes do not generate the anticipated trade-offs in fecundity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006 , 273, 1369-74	4.4	30
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