# Russel J Reiter

### List of Publications by Citations

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648 60,341 128 222 h-index g-index citations papers 68,312 8.18 685 6.7 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
648	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , <b>2012</b> , 8, 445-5	5 <b>44</b> .2	2783
647	Pineal melatonin: cell biology of its synthesis and of its physiological interactions. <i>Endocrine Reviews</i> , <b>1991</b> , 12, 151-80	27.2	1771
646	Regulation of antioxidant enzymes: a significant role for melatonin. <i>Journal of Pineal Research</i> , <b>2004</b> , 36, 1-9	10.4	1462
645	One molecule, many derivatives: a never-ending interaction of melatonin with reactive oxygen and nitrogen species?. <i>Journal of Pineal Research</i> , <b>2007</b> , 42, 28-42	10.4	1160
644	Melatonin as a natural ally against oxidative stress: a physicochemical examination. <i>Journal of Pineal Research</i> , <b>2011</b> , 51, 1-16	10.4	816
643	Actions of melatonin in the reduction of oxidative stress. A review. <i>Journal of Biomedical Science</i> , <b>2000</b> , 7, 444-58	13.3	788
642	Melatonin as an antioxidant: under promises but over delivers. <i>Journal of Pineal Research</i> , <b>2016</b> , 61, 253	-78.4	786
641	Chemical and physical properties and potential mechanisms: melatonin as a broad spectrum antioxidant and free radical scavenger. <i>Current Topics in Medicinal Chemistry</i> , <b>2002</b> , 2, 181-97	3	777
640	A review of the evidence supporting melatonin's role as an antioxidant. <i>Journal of Pineal Research</i> , <b>1995</b> , 18, 1-11	10.4	719
639	Oxidative processes and antioxidative defense mechanisms in the aging brain1. <i>FASEB Journal</i> , <b>1995</b> , 9, 526-533	0.9	698
638	Melatonin: an ancient molecule that makes oxygen metabolically tolerable. <i>Journal of Pineal Research</i> , <b>2015</b> , 59, 403-19	10.4	595
637	On the free radical scavenging activities of melatonin's metabolites, AFMK and AMK. <i>Journal of Pineal Research</i> , <b>2013</b> , 54, 245-57	10.4	569
636	Extrapineal melatonin: sources, regulation, and potential functions. <i>Cellular and Molecular Life Sciences</i> , <b>2014</b> , 71, 2997-3025	10.3	562
635	Biochemical reactivity of melatonin with reactive oxygen and nitrogen species: a review of the evidence. <i>Cell Biochemistry and Biophysics</i> , <b>2001</b> , 34, 237-56	3.2	504
634	A review of the multiple actions of melatonin on the immune system. <i>Endocrine</i> , <b>2005</b> , 27, 189-200		459
633	Melatonin: the chemical expression of darkness. <i>Molecular and Cellular Endocrinology</i> , <b>1991</b> , 79, C153-8	4.4	441
632	Melatonin: a multitasking molecule. <i>Progress in Brain Research</i> , <b>2010</b> , 181, 127-51	2.9	432

## (2014-2008)

631	Oxidative stress impairs oocyte quality and melatonin protects oocytes from free radical damage and improves fertilization rate. <i>Journal of Pineal Research</i> , <b>2008</b> , 44, 280-7	10.4	432	
630	A review of the molecular aspects of melatonin's anti-inflammatory actions: recent insights and new perspectives. <i>Journal of Pineal Research</i> , <b>2013</b> , 54, 1-14	10.4	429	
629	Melatonin membrane receptors in peripheral tissues: distribution and functions. <i>Molecular and Cellular Endocrinology</i> , <b>2012</b> , 351, 152-66	4.4	427	
628	Melatonin mitigates mitochondrial malfunction. <i>Journal of Pineal Research</i> , <b>2005</b> , 38, 1-9	10.4	418	
627	Melatonin, hydroxyl radical-mediated oxidative damage, and aging: a hypothesis. <i>Journal of Pineal Research</i> , <b>1993</b> , 14, 151-68	10.4	405	
626	Effects of melatonin treatment in septic newborns. <i>Pediatric Research</i> , <b>2001</b> , 50, 756-60	3.2	395	
625	Significance of melatonin in antioxidative defense system: reactions and products. <i>NeuroSignals</i> , <b>2000</b> , 9, 137-59	1.9	384	
624	Extrapineal melatonin: analysis of its subcellular distribution and daily fluctuations. <i>Journal of Pineal Research</i> , <b>2012</b> , 52, 217-27	10.4	381	
623	Kynuramines, metabolites of melatonin and other indoles: the resurrection of an almost forgotten class of biogenic amines. <i>Journal of Pineal Research</i> , <b>2009</b> , 47, 109-126	10.4	379	
622	Reducing oxidative/nitrosative stress: a newly-discovered genre for melatonin. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , <b>2009</b> , 44, 175-200	8.7	364	
621	Mitochondria and chloroplasts as the original sites of melatonin synthesis: a hypothesis related to melatonin's primary function and evolution in eukaryotes. <i>Journal of Pineal Research</i> , <b>2013</b> , 54, 127-38	10.4	345	
620	Melatonin directly scavenges hydrogen peroxide: a potentially new metabolic pathway of melatonin biotransformation. <i>Free Radical Biology and Medicine</i> , <b>2000</b> , 29, 1177-85	7.8	343	
619	COVID-19: Melatonin as a potential adjuvant treatment. <i>Life Sciences</i> , <b>2020</b> , 250, 117583	6.8	334	
618	Evidence of melatonin synthesis by human lymphocytes and its physiological significance: possible role as intracrine, autocrine, and/or paracrine substance. <i>FASEB Journal</i> , <b>2004</b> , 18, 537-9	0.9	330	
617	Melatonin enhances plant growth and abiotic stress tolerance in soybean plants. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 695-707	7	324	
616	Distribution of melatonin in mammalian tissues: the relative importance of nuclear versus cytosolic localization. <i>Journal of Pineal Research</i> , <b>1993</b> , 15, 59-69	10.4	314	
615	Melatonin, cardiolipin and mitochondrial bioenergetics in health and disease. <i>Journal of Pineal Research</i> , <b>2010</b> , 48, 297-310	10.4	312	
614	Protective effects of melatonin in reducing oxidative stress and in preserving the fluidity of biological membranes: a review. <i>Journal of Pineal Research</i> , <b>2014</b> , 56, 225-37	10.4	311	

613	Melatonin as a free radical scavenger: implications for aging and age-related diseases. <i>Annals of the New York Academy of Sciences</i> , <b>1994</b> , 719, 1-12	6.5	311
612	Comparative physiological, metabolomic, and transcriptomic analyses reveal mechanisms of improved abiotic stress resistance in bermudagrass [Cynodon dactylon (L). Pers.] by exogenous melatonin. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 681-94	7	310
611	Melatonin, the circadian multioscillator system and health: the need for detailed analyses of peripheral melatonin signaling. <i>Journal of Pineal Research</i> , <b>2012</b> , 52, 139-66	10.4	310
610	Melatonin as a Potent and Inducible Endogenous Antioxidant: Synthesis and Metabolism. <i>Molecules</i> , <b>2015</b> , 20, 18886-906	4.8	306
609	Melatonin, mitochondria, and cellular bioenergetics. Journal of Pineal Research, 2001, 30, 65-74	10.4	302
608	Melatonin: reducing the toxicity and increasing the efficacy of drugs. <i>Journal of Pharmacy and Pharmacology</i> , <b>2002</b> , 54, 1299-321	4.8	294
607	Melatonin and its relation to the immune system and inflammation. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 917, 376-86	6.5	286
606	Melatonin and the ovary: physiological and pathophysiological implications. <i>Fertility and Sterility</i> , <b>2009</b> , 92, 328-43	4.8	281
605	Melatonin: from basic research to cancer treatment clinics. <i>Journal of Clinical Oncology</i> , <b>2002</b> , 20, 2575-	6 <u>0</u> .1	279
604	Melatonin and reproduction revisited. <i>Biology of Reproduction</i> , <b>2009</b> , 81, 445-56	3.9	274
603	Nuclear localization of melatonin in different mammalian tissues: immunocytochemical and radioimmunoassay evidence. <i>Journal of Cellular Biochemistry</i> , <b>1993</b> , 53, 373-82	4.7	271
602	Melatonin: exceeding expectations. <i>Physiology</i> , <b>2014</b> , 29, 325-33	9.8	269
601	Free Radical-Mediated Molecular Damage. Annals of the New York Academy of Sciences, 2006, 939, 200-	26 <i>5</i> 5	265
600	High levels of melatonin in the seeds of edible plants: possible function in germ tissue protection. <i>Life Sciences</i> , <b>2000</b> , 67, 3023-9	6.8	262
599	Melatonin in walnuts: influence on levels of melatonin and total antioxidant capacity of blood. <i>Nutrition</i> , <b>2005</b> , 21, 920-4	4.8	261
598	Melatonin as a mitochondria-targeted antioxidant: one of evolution's best ideas. <i>Cellular and Molecular Life Sciences</i> , <b>2017</b> , 74, 3863-3881	10.3	255
597	Phytomelatonin: a review. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 57-69	7	250
596	The mammalian pineal gland: structure and function. <i>American Journal of Anatomy</i> , <b>1981</b> , 162, 287-313		247

### (2019-2007)

595	Melatonin and its metabolites: new findings regarding their production and their radical scavenging actions <i>Acta Biochimica Polonica</i> , <b>2007</b> , 54, 1-9	2	238
594	Melatonin prevents changes in microsomal membrane fluidity during induced lipid peroxidation. <i>FEBS Letters</i> , <b>1997</b> , 408, 297-300	3.8	237
593	Inhibition of cerebellar nitric oxide synthase and cyclic GMP production by melatonin via complex formation with calmodulin. <i>Journal of Cellular Biochemistry</i> , <b>1997</b> , 65, 430-42	4.7	236
592	Melatonin and mitochondrial function. <i>Life Sciences</i> , <b>2004</b> , 75, 765-90	6.8	231
591	Melatonin, a Full Service Anti-Cancer Agent: Inhibition of Initiation, Progression and Metastasis. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	230
590	Melatonin and endoplasmic reticulum stress: relation to autophagy and apoptosis. <i>Journal of Pineal Research</i> , <b>2015</b> , 59, 292-307	10.4	229
589	Identification of highly elevated levels of melatonin in bone marrow: its origin and significance. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>1999</b> , 1472, 206-14	4	229
588	Melatonin: clinical relevance. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , <b>2003</b> , 17, 273-85	6.5	226
587	Phytomelatonin: assisting plants to survive and thrive. <i>Molecules</i> , <b>2015</b> , 20, 7396-437	4.8	225
586	Both physiological and pharmacological levels of melatonin reduce DNA adduct formation induced by the carcinogen safrole. <i>Carcinogenesis</i> , <b>1994</b> , 15, 215-8	4.6	224
585	On the primary functions of melatonin in evolution: mediation of photoperiodic signals in a unicell, photooxidation, and scavenging of free radicals. <i>Journal of Pineal Research</i> , <b>1995</b> , 18, 104-11	10.4	221
584	Melatonin: an established antioxidant worthy of use in clinical trials. <i>Molecular Medicine</i> , <b>2009</b> , 15, 43-50	06.2	218
583	Melatonin: a novel protective agent against oxidative injury of the ischemic/reperfused heart. <i>Cardiovascular Research</i> , <b>2003</b> , 58, 10-9	9.9	218
582	Alzheimer's disease: pathological mechanisms and the beneficial role of melatonin. <i>Journal of Pineal Research</i> , <b>2012</b> , 52, 167-202	10.4	217
581	Melatonin as a radioprotective agent: a review. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2004</b> , 59, 639-53	4	216
580	The ageing pineal gland and its physiological consequences. <i>BioEssays</i> , <b>1992</b> , 14, 169-75	4.1	213
579	Visualization of the antioxidative effects of melatonin at the mitochondrial level during oxidative stress-induced apoptosis of rat brain astrocytes. <i>Journal of Pineal Research</i> , <b>2004</b> , 37, 55-70	10.4	210
578	Melatonin Synthesis and Function: Evolutionary History in Animals and Plants. <i>Frontiers in Endocrinology</i> , <b>2019</b> , 10, 249	5.7	209

577	Increased levels of malondialdehyde and nitrite/nitrate in the blood of asphyxiated newborns: reduction by melatonin. <i>Journal of Pineal Research</i> , <b>2001</b> , 31, 343-9	10.4	207
576	Cardiovascular diseases: protective effects of melatonin. <i>Journal of Pineal Research</i> , <b>2008</b> , 44, 16-25	10.4	205
575	The Safety of Melatonin in Humans. Clinical Drug Investigation, 2016, 36, 169-75	3.2	201
574	Melatonin protects against common deletion of mitochondrial DNA-augmented mitochondrial oxidative stress and apoptosis. <i>Journal of Pineal Research</i> , <b>2007</b> , 43, 389-403	10.4	201
573	Age-associated reduction in nocturnal pineal melatonin levels in female rats. <i>Endocrinology</i> , <b>1981</b> , 109, 1295-7	4.8	197
572	The RNA-seq approach to discriminate gene expression profiles in response to melatonin on cucumber lateral root formation. <i>Journal of Pineal Research</i> , <b>2014</b> , 56, 39-50	10.4	190
571	Antioxidant properties of the melatonin metabolite N1-acetyl-5-methoxykynuramine (AMK): scavenging of free radicals and prevention of protein destruction. <i>Redox Report</i> , <b>2003</b> , 8, 205-13	5.9	190
570	The changing biological roles of melatonin during evolution: from an antioxidant to signals of darkness, sexual selection and fitness. <i>Biological Reviews</i> , <b>2010</b> , 85, 607-23	13.5	189
569	Melatonin biosynthesis in plants: multiple pathways catalyze tryptophan to melatonin in the cytoplasm or chloroplasts. <i>Journal of Pineal Research</i> , <b>2016</b> , 61, 426-437	10.4	187
568	N1-acetyl-N2-formyl-5-methoxykynuramine, a biogenic amine and melatonin metabolite, functions as a potent antioxidant. <i>FASEB Journal</i> , <b>2001</b> , 15, 2294-6	0.9	186
567	Cancer metastasis: Mechanisms of inhibition by melatonin. <i>Journal of Pineal Research</i> , <b>2017</b> , 62, e12370	10.4	185
566	Melatonin: A Mitochondrial Targeting Molecule Involving Mitochondrial Protection and Dynamics. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	182
565	Melatonin: Current Status and Future Perspectives in Plant Science. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 1230	6.2	182
564	Melatonin-mitochondria interplay in health and disease. <i>Current Topics in Medicinal Chemistry</i> , <b>2011</b> , 11, 221-40	3	179
563	Rhythms of glutathione peroxidase and glutathione reductase in brain of chick and their inhibition by light. <i>Neurochemistry International</i> , <b>1998</b> , 32, 69-75	4.4	179
562	Detection and quantification of the antioxidant melatonin in Montmorency and Balaton tart cherries (Prunus cerasus). <i>Journal of Agricultural and Food Chemistry</i> , <b>2001</b> , 49, 4898-902	5.7	177
561	Melatonin prevents cell death and mitochondrial dysfunction via a SIRT1-dependent mechanism during ischemic-stroke in mice. <i>Journal of Pineal Research</i> , <b>2015</b> , 58, 61-70	10.4	171
560	Sirtuins, melatonin and circadian rhythms: building a bridge between aging and cancer. <i>Journal of Pineal Research</i> , <b>2010</b> , 48, 9-19	10.4	170

### (2016-1976)

559	Nocturnal elevation of plasma melatonin and urinary 5-hydroxyindoleacetic acid in young men: attempts at modification by brief changes in environmental lighting and sleep and by autonomic drugs. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>1976</b> , 42, 752-64	5.6	170
558	Reactive oxygen and nitrogen species and cellular and organismal decline: amelioration with melatonin. <i>Mechanisms of Ageing and Development</i> , <b>2002</b> , 123, 1007-19	5.6	169
557	Melatonin induces nitric oxide and the potential mechanisms relate to innate immunity against bacterial pathogen infection in Arabidopsis. <i>Journal of Pineal Research</i> , <b>2015</b> , 59, 102-8	10.4	167
556	Characterization of high-affinity melatonin binding sites in purified cell nuclei of rat liver. <i>Journal of Pineal Research</i> , <b>1994</b> , 16, 100-12	10.4	167
555	Melatonin reprogramming of gut microbiota improves lipid dysmetabolism in high-fat diet-fed mice. <i>Journal of Pineal Research</i> , <b>2018</b> , 65, e12524	10.4	161
554	Mitochondria: Central Organelles for Melatonin's Antioxidant and Anti-Aging Actions. <i>Molecules</i> , <b>2018</b> , 23,	4.8	159
553	Light at night, chronodisruption, melatonin suppression, and cancer risk: a review. <i>Critical Reviews in Oncogenesis</i> , <b>2007</b> , 13, 303-28	1.3	159
552	Protective role of melatonin in cardiac ischemia-reperfusion injury: From pathogenesis to targeted therapy. <i>Journal of Pineal Research</i> , <b>2018</b> , 64, e12471	10.4	158
551	Melatonin and stable circadian rhythms optimize maternal, placental and fetal physiology. <i>Human Reproduction Update</i> , <b>2014</b> , 20, 293-307	15.8	156
550	Novel rhythms of N1-acetyl-N2-formyl-5-methoxykynuramine and its precursor melatonin in water hyacinth: importance for phytoremediation. <i>FASEB Journal</i> , <b>2007</b> , 21, 1724-9	0.9	155
549	High physiological levels of melatonin in the bile of mammals. <i>Life Sciences</i> , <b>1999</b> , 65, 2523-9	6.8	155
548	Melatonin and circadian biology in human cardiovascular disease. <i>Journal of Pineal Research</i> , <b>2010</b> , 49, 14-22	10.4	154
547	Utility of high doses of melatonin as adjunctive anticonvulsant therapy in a child with severe myoclonic epilepsy: two years' experience. <i>Journal of Pineal Research</i> , <b>1997</b> , 23, 97-105	10.4	154
546	The universal nature, unequal distribution and antioxidant functions of melatonin and its derivatives. <i>Mini-Reviews in Medicinal Chemistry</i> , <b>2013</b> , 13, 373-84	3.2	153
545	Melatonin feedback on clock genes: a theory involving the proteasome. <i>Journal of Pineal Research</i> , <b>2015</b> , 58, 1-11	10.4	152
544	Mechanistic and comparative studies of melatonin and classic antioxidants in terms of their interactions with the ABTS cation radical. <i>Journal of Pineal Research</i> , <b>2003</b> , 34, 249-59	10.4	152
543	Physiological levels of melatonin contribute to the antioxidant capacity of human serum. <i>Journal of Pineal Research</i> , <b>1999</b> , 27, 59-64	10.4	151
542	Apoptosis signaling pathways in osteoarthritis and possible protective role of melatonin. <i>Journal of Pineal Research</i> , <b>2016</b> , 61, 411-425	10.4	150

541	On the significance of an alternate pathway of melatonin synthesis via 5-methoxytryptamine: comparisons across species. <i>Journal of Pineal Research</i> , <b>2016</b> , 61, 27-40	10.4	150
540	Melatonin alleviates brain injury in mice subjected to cecal ligation and puncture via attenuating inflammation, apoptosis, and oxidative stress: the role of SIRT1 signaling. <i>Journal of Pineal Research</i> , <b>2015</b> , 59, 230-9	10.4	149
539	Defining chronodisruption. Journal of Pineal Research, 2009, 46, 245-7	10.4	149
538	A brief survey of pineal gland-immune system interrelationships. <i>Endocrine Research</i> , <b>1992</b> , 18, 91-113	1.9	149
537	Ischemia/reperfusion-induced arrhythmias in the isolated rat heart: prevention by melatonin. <i>Journal of Pineal Research</i> , <b>1998</b> , 25, 184-91	10.4	148
536	Melatonin and its metabolites vs oxidative stress: From individual actions to collective protection. Journal of Pineal Research, <b>2018</b> , 65, e12514	10.4	146
535	Augmentation of indices of oxidative damage in life-long melatonin-deficient rats. <i>Mechanisms of Ageing and Development</i> , <b>1999</b> , 110, 157-73	5.6	145
534	Functional pleiotropy of the neurohormone melatonin: antioxidant protection and neuroendocrine regulation. <i>Frontiers in Neuroendocrinology</i> , <b>1995</b> , 16, 383-415	8.9	145
533	Melatonin reduces kainate-induced lipid peroxidation in homogenates of different brain regions. <i>FASEB Journal</i> , <b>1995</b> , 9, 1205-10	0.9	144
532	Obesity and metabolic syndrome: association with chronodisruption, sleep deprivation, and melatonin suppression. <i>Annals of Medicine</i> , <b>2012</b> , 44, 564-77	1.5	143
531	Rhythms in immunoreactive melatonin in the retina and Harderian gland of rats: persistence after pinealectomy. <i>Life Sciences</i> , <b>1983</b> , 32, 1229-36	6.8	142
530	Diabetic retinopathy pathogenesis and the ameliorating effects of melatonin; involvement of autophagy, inflammation and oxidative stress. <i>Life Sciences</i> , <b>2018</b> , 193, 20-33	6.8	142
529	The Keap1-Nrf2-antioxidant response element pathway: a review of its regulation by melatonin and the proteasome. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 401, 213-20	4.4	140
528	Visualization of melatonin's multiple mitochondrial levels of protection against mitochondrial Ca(2+)-mediated permeability transition and beyond in rat brain astrocytes. <i>Journal of Pineal Research</i> , <b>2010</b> , 48, 20-38	10.4	140
527	Melatonin mediates selenium-induced tolerance to cadmium stress in tomato plants. <i>Journal of Pineal Research</i> , <b>2016</b> , 61, 291-302	10.4	140
526	Individual and synergistic antioxidative actions of melatonin: studies with vitamin E, vitamin C, glutathione and desferrioxamine (desferoxamine) in rat liver homogenates. <i>Journal of Pharmacy and Pharmacology</i> , <b>2001</b> , 53, 1393-401	4.8	134
525	Pineal gland "magnetosensitivity" to static magnetic fields is a consequence of induced electric currents (eddy currents). <i>Journal of Pineal Research</i> , <b>1991</b> , 10, 109-16	10.4	131
524	HsfA1a upregulates melatonin biosynthesis to confer cadmium tolerance in tomato plants. <i>Journal of Pineal Research</i> , <b>2017</b> , 62, e12387	10.4	130

523	A review of melatonin as a suitable antioxidant against myocardial ischemia-reperfusion injury and clinical heart diseases. <i>Journal of Pineal Research</i> , <b>2014</b> , 57, 357-66	10.4	130
522	Melatonin and the circadian system: contributions to successful female reproduction. <i>Fertility and Sterility</i> , <b>2014</b> , 102, 321-8	4.8	130
521	When melatonin gets on your nerves: its beneficial actions in experimental models of stroke. <i>Experimental Biology and Medicine</i> , <b>2005</b> , 230, 104-17	3.7	129
520	Molecular mechanisms of the pro-apoptotic actions of melatonin in cancer: a review. <i>Expert Opinion on Therapeutic Targets</i> , <b>2013</b> , 17, 1483-96	6.4	127
519	Protecting the melatonin rhythm through circadian healthy light exposure. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 23448-500	6.3	126
518	Melatonin in plants. <i>Nutrition Reviews</i> , <b>2001</b> , 59, 286-90	6.4	126
517	Arabidopsis serotonin N-acetyltransferase knockout mutant plants exhibit decreased melatonin and salicylic acid levels resulting in susceptibility to an avirulent pathogen. <i>Journal of Pineal Research</i> , <b>2015</b> , 58, 291-9	10.4	124
516	Inhibitory effect of melatonin on cataract formation in newborn rats: evidence for an antioxidative role for melatonin. <i>Journal of Pineal Research</i> , <b>1994</b> , 17, 94-100	10.4	124
515	Melatonin and its metabolites as copper chelating agents and their role in inhibiting oxidative stress: a physicochemical analysis. <i>Journal of Pineal Research</i> , <b>2015</b> , 58, 107-16	10.4	121
514	Neurotoxins: free radical mechanisms and melatonin protection. <i>Current Neuropharmacology</i> , <b>2010</b> , 8, 194-210	7.6	121
513	DNA oxidatively damaged by chromium(III) and H(2)O(2) is protected by the antioxidants melatonin, N(1)-acetyl-N(2)-formyl-5-methoxykynuramine, resveratrol and uric acid. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2001</b> , 33, 775-83	5.6	121
512	Fundamental issues related to the origin of melatonin and melatonin isomers during evolution: relation to their biological functions. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 15858-90	6.3	120
511	Melatonin: A Cutaneous Perspective on its Production, Metabolism, and Functions. <i>Journal of Investigative Dermatology</i> , <b>2018</b> , 138, 490-499	4.3	119
510	Melatonin attenuated early brain injury induced by subarachnoid hemorrhage via regulating NLRP3 inflammasome and apoptosis signaling. <i>Journal of Pineal Research</i> , <b>2016</b> , 60, 253-62	10.4	116
509	INDOLE-3-ACETIC ACID INDUCIBLE 17 positively modulates natural leaf senescence through melatonin-mediated pathway in Arabidopsis. <i>Journal of Pineal Research</i> , <b>2015</b> , 58, 26-33	10.4	115
508	Melatonin induces the transcripts of CBF/DREB1s and their involvement in both abiotic and biotic stresses in Arabidopsis. <i>Journal of Pineal Research</i> , <b>2015</b> , 59, 334-42	10.4	115
507	Melatonin regulates mesenchymal stem cell differentiation: a review. <i>Journal of Pineal Research</i> , <b>2014</b> , 56, 382-97	10.4	115
506	Static and extremely low frequency electromagnetic field exposure: reported effects on the circadian production of melatonin. <i>Journal of Cellular Biochemistry</i> , <b>1993</b> , 51, 394-403	4.7	115

505	Caloric restriction, resveratrol and melatonin: Role of SIRT1 and implications for aging and related-diseases. <i>Mechanisms of Ageing and Development</i> , <b>2015</b> , 146-148, 28-41	5.6	114
504	Paraquat toxicity and oxidative damage. Reduction by melatonin. <i>Biochemical Pharmacology</i> , <b>1996</b> , 51, 1095-9	6	113
503	Melatonin administration prevents lipopolysaccharide-induced oxidative damage in phenobarbital-treated animals. <i>Journal of Cellular Biochemistry</i> , <b>1995</b> , 58, 436-44	4.7	113
502	Phytomelatonin: a universal abiotic stress regulator. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 963-974	7	112
501	A review of metal-catalyzed molecular damage: protection by melatonin. <i>Journal of Pineal Research</i> , <b>2014</b> , 56, 343-70	10.4	112
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