

Russel J Reiter

List of Publications by Year in descending order

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661
papers

80,412
citations

235

143
h-index

721

250
g-index

707
all docs

707
docs citations

707
times ranked

46783
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	11.0	3,158
2	Pineal Melatonin: Cell Biology of Its Synthesis and of Its Physiological Interactions*. <i>Endocrine Reviews</i> , 1991, 12, 151-180.	20.3	1,999
3	Regulation of antioxidant enzymes: a significant role for melatonin. <i>Journal of Pineal Research</i> , 2004, 36, 1-9.	7.7	1,745
4	One molecule, many derivatives: A never-ending interaction of melatonin with reactive oxygen and nitrogen species?. <i>Journal of Pineal Research</i> , 2007, 42, 28-42.	7.7	1,394
5	Melatonin as an antioxidant: under promises but over delivers. <i>Journal of Pineal Research</i> , 2016, 61, 253-278.	7.7	1,208
6	Actions of melatonin in the reduction of oxidative stress. <i>Journal of Biomedical Science</i> , 2000, 7, 444-458.	7.2	995
7	Melatonin as a natural ally against oxidative stress: a physicochemical examination. <i>Journal of Pineal Research</i> , 2011, 51, 1-16.	7.7	984
8	Chemical and Physical Properties and Potential Mechanisms: Melatonin as a Broad Spectrum Antioxidant and Free Radical Scavenger. <i>Current Topics in Medicinal Chemistry</i> , 2002, 2, 181-197.	2.0	903
9	Extrapineal melatonin: sources, regulation, and potential functions. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 2997-3025.	5.5	812
10	A review of the evidence supporting melatonin's role as an antioxidant. <i>Journal of Pineal Research</i> , 1995, 18, 1-11.	7.7	781
11	Melatonin: an ancient molecule that makes oxygen metabolically tolerable. <i>Journal of Pineal Research</i> , 2015, 59, 403-419.	7.7	772
12	Oxidative processes and antioxidative defense mechanisms in the aging brain ¹ . <i>FASEB Journal</i> , 1995, 9, 526-533.	0.5	769
13	On the free radical scavenging activities of melatonin's metabolites, <i>AFMK</i> and <i>AMK</i> . <i>Journal of Pineal Research</i> , 2013, 54, 245-257.	7.7	702
14	Biochemical Reactivity of Melatonin with Reactive Oxygen and Nitrogen Species: A Review of the Evidence. <i>Cell Biochemistry and Biophysics</i> , 2001, 34, 237-256.	1.8	610
15	Oxidative stress impairs oocyte quality and melatonin protects oocytes from free radical damage and improves fertilization rate. <i>Journal of Pineal Research</i> , 2008, 44, 280-287.	7.7	564
16	Melatonin membrane receptors in peripheral tissues: Distribution and functions. <i>Molecular and Cellular Endocrinology</i> , 2012, 351, 152-166.	3.3	560
17	A Review of the Multiple Actions of Melatonin on the Immune System. <i>Endocrine</i> , 2005, 27, 189-200.	2.2	558
18	Melatonin: A Multitasking Molecule. <i>Progress in Brain Research</i> , 2010, 181, 127-151.	3.9	531

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19	Melatonin: The chemical expression of darkness. <i>Molecular and Cellular Endocrinology</i> , 1991, 79, C153-C158.	3.3	528
20	A review of the molecular aspects of melatonin's anti-inflammatory actions: recent insights and new perspectives. <i>Journal of Pineal Research</i> , 2013, 54, 1-14.	7.7	522
21	Melatonin enhances plant growth and abiotic stress tolerance in soybean plants. <i>Journal of Experimental Botany</i> , 2015, 66, 695-707.	4.9	520
22	Melatonin as a Potent and Inducible Endogenous Antioxidant: Synthesis and Metabolism. <i>Molecules</i> , 2015, 20, 18886-18906.	3.9	514
23	Extrapineal melatonin: analysis of its subcellular distribution and daily fluctuations. <i>Journal of Pineal Research</i> , 2012, 52, 217-227.	7.7	502
24	COVID-19: Melatonin as a potential adjuvant treatment. <i>Life Sciences</i> , 2020, 250, 117583.	4.4	502
25	Melatonin mitigates mitochondrial malfunction. <i>Journal of Pineal Research</i> , 2005, 38, 1-9.	7.7	471
26	Melatonin, hydroxyl radical-mediated oxidative damage, and aging: A hypothesis. <i>Journal of Pineal Research</i> , 1993, 14, 151-168.	7.7	467
27	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> , 2013, 54, 127-138.	7.7	465
28	Effects of Melatonin Treatment in Septic Newborns. <i>Pediatric Research</i> , 2001, 50, 756-760.	2.4	457
29	Comparative physiological, metabolomic, and transcriptomic analyses reveal mechanisms of improved abiotic stress resistance in bermudagrass [<i>Cynodon dactylon</i> (L). Pers.] by exogenous melatonin. <i>Journal of Experimental Botany</i> , 2015, 66, 681-694.	4.9	457
30	Melatonin Synthesis and Function: Evolutionary History in Animals and Plants. <i>Frontiers in Endocrinology</i> , 2019, 10, 249.	3.5	449
31	Kynuramines, metabolites of melatonin and other indoles: the resurrection of an almost forgotten class of biogenic amines. <i>Journal of Pineal Research</i> , 2009, 47, 109-126.	7.7	431
32	Melatonin: Exceeding Expectations. <i>Physiology</i> , 2014, 29, 325-333.	3.3	424
33	Reducing oxidative/nitrosative stress: a newly-discovered genre for melatonin. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2009, 44, 175-200.	5.3	422
34	Melatonin and endoplasmic reticulum stress: relation to autophagy and apoptosis. <i>Journal of Pineal Research</i> , 2015, 59, 292-307.	7.7	414
35	Melatonin directly scavenges hydrogen peroxide: a potentially new metabolic pathway of melatonin biotransformation. <i>Free Radical Biology and Medicine</i> , 2000, 29, 1177-1185.	4.5	408
36	Protective effects of melatonin in reducing oxidative stress and in preserving the fluidity of biological membranes: a review. <i>Journal of Pineal Research</i> , 2014, 56, 225-237.	7.7	399

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37	Melatonin as a mitochondria-targeted antioxidant: one of evolution's best ideas. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3863-3881.	5.5	399
38	Evidence of melatonin synthesis by human lymphocytes and its physiological significance: possible role as intracrine, autocrine, and/or paracrine substance. <i>FASEB Journal</i> , 2004, 18, 537-539.	0.5	393
39	Melatonin, the circadian multioscillator system and health: the need for detailed analyses of peripheral melatonin signaling. <i>Journal of Pineal Research</i> , 2012, 52, 139-166.	7.7	386
40	Melatonin and the ovary: physiological and pathophysiological implications. <i>Fertility and Sterility</i> , 2009, 92, 328-343.	0.9	377
41	Melatonin biosynthesis in plants: multiple pathways catalyze tryptophan to melatonin in the cytoplasm or chloroplasts. <i>Journal of Pineal Research</i> , 2016, 61, 426-437.	7.7	366
42	Melatonin, mitochondria, and cellular bioenergetics. <i>Journal of Pineal Research</i> , 2001, 30, 65-74.	7.7	356
43	Distribution of melatonin in mammalian tissues: The relative importance of nuclear versus cytosolic localization. <i>Journal of Pineal Research</i> , 1993, 15, 59-69.	7.7	354
44	Melatonin, a Full Service Anti-Cancer Agent: Inhibition of Initiation, Progression and Metastasis. <i>International Journal of Molecular Sciences</i> , 2017, 18, 843.	4.2	353
45	Melatonin: reducing the toxicity and increasing the efficacy of drugs. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 54, 1299-1321.	2.6	352
46	Melatonin, cardiolipin and mitochondrial bioenergetics in health and disease. <i>Journal of Pineal Research</i> , 2010, 48, 297-310.	7.7	343
47	The Safety of Melatonin in Humans. <i>Clinical Drug Investigation</i> , 2016, 36, 169-175.	2.2	340
48	Melatonin reprogramming of gut microbiota improves lipid dysmetabolism in high-fat diet-fed mice. <i>Journal of Pineal Research</i> , 2018, 65, e12524.	7.7	338
49	Melatonin and Reproduction Revisited. <i>Biology of Reproduction</i> , 2009, 81, 445-456.	2.6	334
50	High levels of melatonin in the seeds of edible plants. <i>Life Sciences</i> , 2000, 67, 3023-3029.	4.4	328
51	Melatonin: From Basic Research to Cancer Treatment Clinics. <i>Journal of Clinical Oncology</i> , 2002, 20, 2575-2601.	15.4	327
52	Melatonin in walnuts: Influence on levels of melatonin and total antioxidant capacity of blood. <i>Nutrition</i> , 2005, 21, 920-924.	2.6	312
53	Melatonin and its metabolites: new findings regarding their production and their radical scavenging actions.. <i>Acta Biochimica Polonica</i> , 2007, 54, 1-9.	0.5	302
54	Melatonin: A Mitochondrial Targeting Molecule Involving Mitochondrial Protection and Dynamics. <i>International Journal of Molecular Sciences</i> , 2016, 17, 2124.	4.2	301

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55	Phytomelatonin: Assisting Plants to Survive and Thrive. <i>Molecules</i> , 2015, 20, 7396-7437.	3.9	297
56	Nuclear localization of melatonin in different mammalian tissues: Immunocytochemical and radioimmunoassay evidence. <i>Journal of Cellular Biochemistry</i> , 1993, 53, 373-382.	2.6	296
57	Melatonin and mitochondrial function. <i>Life Sciences</i> , 2004, 75, 765-790.	4.4	293
58	Phytomelatonin: a review. <i>Journal of Experimental Botany</i> , 2009, 60, 57-69.	4.9	291
59	Identification of highly elevated levels of melatonin in bone marrow: its origin and significance. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999, 1472, 206-214.	2.5	284
60	Mitochondria: Central Organelles for Melatonin's Antioxidant and Anti-Aging Actions. <i>Molecules</i> , 2018, 23, 509.	3.9	283
61	The changing biological roles of melatonin during evolution: from an antioxidant to signals of darkness, sexual selection and fitness. <i>Biological Reviews</i> , 2010, 85, 607-623.	10.7	282
62	Cardiovascular diseases: protective effects of melatonin. <i>Journal of Pineal Research</i> , 2008, 44, 16-25.	7.7	279
63	Melatonin: Current Status and Future Perspectives in Plant Science. <i>Frontiers in Plant Science</i> , 2015, 6, 1230.	3.8	277
64	Apoptosis signaling pathways in osteoarthritis and possible protective role of melatonin. <i>Journal of Pineal Research</i> , 2016, 61, 411-425.	7.7	273
65	The mammalian pineal gland: Structure and function. <i>American Journal of Anatomy</i> , 1981, 162, 287-313.	0.9	272
66	Melatonin: clinical relevance. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2003, 17, 273-285.	5.0	272
67	The RNA-seq approach to discriminate gene expression profiles in response to melatonin on cucumber lateral root formation. <i>Journal of Pineal Research</i> , 2014, 56, 39-50.	7.7	271
68	Inhibition of cerebellar nitric oxide synthase and cyclic GMP production by melatonin via complex formation with calmodulin. <i>Journal of Cellular Biochemistry</i> , 1997, 65, 430-442.	2.6	267
69	Alzheimer's disease: pathological mechanisms and the beneficial role of melatonin. <i>Journal of Pineal Research</i> , 2012, 52, 167-202.	7.7	265
70	Melatonin as a radioprotective agent: a review. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 59, 639-653.	0.8	262
71	Melatonin: An Established Antioxidant Worthy of Use in Clinical Trials. <i>Molecular Medicine</i> , 2009, 15, 43-50.	4.5	260
72	Melatonin: a novel protective agent against oxidative injury of the ischemic/reperfused heart. <i>Cardiovascular Research</i> , 2003, 58, 10-19.	3.7	257

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73	On the primary functions of melatonin in evolution: Mediation of photoperiodic signals in a unicell, photooxidation, and scavenging of free radicals*. Journal of Pineal Research, 1995, 18, 104-111.	7.7	254
74	Cancer metastasis: Mechanisms of inhibition by melatonin. Journal of Pineal Research, 2017, 62, e12370.	7.7	254
75	Both physiological and pharmacological levels of melatonin reduce DNA adduct formation induced by the carcinogen safrole. Carcinogenesis, 1994, 15, 215-218.	2.8	251
76	Melatonin and stable circadian rhythms optimize maternal, placental and fetal physiology. Human Reproduction Update, 2014, 20, 293-307.	12.0	244
77	Melatonin and its metabolites vs oxidative stress: From individual actions to collective protection. Journal of Pineal Research, 2018, 65, e12514.	7.7	243
78	The ageing pineal gland and its physiological consequences. BioEssays, 1992, 14, 169-175.	2.6	241
79	Visualization of the antioxidative effects of melatonin at the mitochondrial level during oxidative stress-induced apoptosis of rat brain astrocytes. Journal of Pineal Research, 2004, 37, 55-70.	7.7	240
80	Phytomelatonin: a universal abiotic stress regulator. Journal of Experimental Botany, 2018, 69, 963-974.	4.9	238
81	N1- <i>N</i> -acetyl- <i>N</i> -2-formyl-5-methoxykynuramine, a biogenic amine and melatonin metabolite, functions as a potent antioxidant. FASEB Journal, 2001, 15, 1-16.	0.5	235
82	Increased levels of malondialdehyde and nitrite/nitrate in the blood of asphyxiated newborns: reduction by melatonin. Journal of Pineal Research, 2001, 31, 343-349.	7.7	234
83	HsfA1a upregulates melatonin biosynthesis to confer cadmium tolerance in tomato plants. Journal of Pineal Research, 2017, 62, e12387.	7.7	234
84	Melatonin: A Cutaneous Perspective on its Production, Metabolism, and Functions. Journal of Investigative Dermatology, 2018, 138, 490-499.	0.7	234
85	On the significance of an alternate pathway of melatonin synthesis via 5-methoxytryptamine: comparisons across species. Journal of Pineal Research, 2016, 61, 27-40.	7.7	232
86	Melatonin induces nitric oxide and the potential mechanisms relate to innate immunity against bacterial pathogen infection in <i>Arabidopsis</i> . Journal of Pineal Research, 2015, 59, 102-108.	7.7	230
87	Melatonin protects against common deletion of mitochondrial DNA-augmented mitochondrial oxidative stress and apoptosis. Journal of Pineal Research, 2007, 43, 389-403.	7.7	221
88	Melatonin-mitochondria Interplay in Health and Disease. Current Topics in Medicinal Chemistry, 2011, 11, 221-240.	2.0	221
89	Melatonin mediates selenium-induced tolerance to cadmium stress in tomato plants. Journal of Pineal Research, 2016, 61, 291-302.	7.7	221
90	Diabetic retinopathy pathogenesis and the ameliorating effects of melatonin; involvement of autophagy, inflammation and oxidative stress. Life Sciences, 2018, 193, 20-33.	4.4	220

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91	Antioxidant properties of the melatonin metabolite N1-acetyl-5-methoxykynuramine (AMK): scavenging of free radicals and prevention of protein destruction. Redox Report, 2003, 8, 205-213.	4.6	217
92	Melatonin prevents cell death and mitochondrial dysfunction via a SIRT1-dependent mechanism during ischemic stroke in mice. Journal of Pineal Research, 2015, 58, 61-70.	7.7	217
93	Detection and Quantification of the Antioxidant Melatonin in Montmorency and Balaton Tart Cherries (<i>Prunus cerasus</i>). Journal of Agricultural and Food Chemistry, 2001, 49, 4898-4902.	5.3	212
94	AGE-ASSOCIATED REDUCTION IN NOCTURNAL PINEAL MELATONIN LEVELS IN FEMALE RATS1. Endocrinology, 1981, 109, 1295-1297.	2.8	204
95	Novel rhythms of N 1 -acetyl-5-methoxykynuramine and its precursor melatonin in water hyacinth: importance for phytoremediation. FASEB Journal, 2007, 21, 1724-1729.	0.5	204
96	Sirtuins, melatonin and circadian rhythms: building a bridge between aging and cancer. Journal of Pineal Research, 2010, 48, 9-19.	7.7	204
97	The Keap1-Nrf2-antioxidant response element pathway: A review of its regulation by melatonin and the proteasome. Molecular and Cellular Endocrinology, 2015, 401, 213-220.	3.3	202
98	Melatonin feedback on clock genes: a theory involving the proteasome. Journal of Pineal Research, 2015, 58, 1-11.	7.7	201
99	Protective role of melatonin in cardiac ischemia-reperfusion injury: From pathogenesis to targeted therapy. Journal of Pineal Research, 2018, 64, e12471.	7.7	199
100	<i>Arabidopsis</i> serotonin N-acetyltransferase knockout mutant plants exhibit decreased melatonin and salicylic acid levels resulting in susceptibility to an avirulent pathogen. Journal of Pineal Research, 2015, 58, 291-299.	7.7	198
101	Defining chronodisruption. Journal of Pineal Research, 2009, 46, 245-247.	7.7	195
102	The Universal Nature, Unequal Distribution and Antioxidant Functions of Melatonin and Its Derivatives. Mini-Reviews in Medicinal Chemistry, 2013, 13, 373-384.	2.6	195
103	High physiological levels of melatonin in the bile of mammals. Life Sciences, 1999, 65, 2523-2529.	4.4	194
104	Rhythms of glutathione peroxidase and glutathione reductase in brain of chick and their inhibition by light. Neurochemistry International, 1998, 32, 69-75.	3.9	193
105	Light at Night, Chronodisruption, Melatonin Suppression, and Cancer Risk: A Review. Critical Reviews in Oncogenesis, 2007, 13, 303-328.	0.4	193
106	Reactive oxygen and nitrogen species and cellular and organismal decline: amelioration with melatonin. Mechanisms of Ageing and Development, 2002, 123, 1007-1019.	4.6	192
107	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. Journal of Clinical Endocrinology and Metabolism, 1976, 42, 752-764.	3.6	191
108	Melatonin alleviates brain injury in mice subjected to cecal ligation and puncture via attenuating inflammation, apoptosis, and oxidative stress: the role of SIRT1 signaling. Journal of Pineal Research, 2015, 59, 230-239.	7.7	191

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109	Melatonin and circadian biology in human cardiovascular disease. <i>Journal of Pineal Research</i> , 2010, 49, no-no.	7.7	187
110	Characterization of high-affinity melatonin binding sites in purified cell nuclei of rat liver. <i>Journal of Pineal Research</i> , 1994, 16, 100-112.	7.7	186
111	Obesity and metabolic syndrome: Association with chronodisruption, sleep deprivation, and melatonin suppression. <i>Annals of Medicine</i> , 2012, 44, 564-577.	3.9	183
112	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> , 2003, 34, 249-259.	7.7	180
113	Physiological levels of melatonin contribute to the antioxidant capacity of human serum. <i>Journal of Pineal Research</i> , 1999, 27, 59-64.	7.7	177
114	AMPK/PGC1 α activation by melatonin attenuates acute doxorubicin cardiotoxicity via alleviating mitochondrial oxidative damage and apoptosis. <i>Free Radical Biology and Medicine</i> , 2018, 129, 59-72.	4.5	177
115	Functional Pleiotropy of the Neurohormone Melatonin: Antioxidant Protection and Neuroendocrine Regulation. <i>Frontiers in Neuroendocrinology</i> , 1995, 16, 383-415.	5.2	176
116	Protecting the Melatonin Rhythm through Circadian Healthy Light Exposure. <i>International Journal of Molecular Sciences</i> , 2014, 15, 23448-23500.	4.2	173
117	Long-term melatonin treatment delays ovarian aging. <i>Journal of Pineal Research</i> , 2017, 62, e12381.	7.7	173
118	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> , 1997, 23, 97-105.	7.7	172
119	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> , 2010, 53, 1393-1401.	2.6	171
120	Melatonin induces the transcripts of <i>CBF/DREB1s</i> and their involvement in both abiotic and biotic stresses in <i>Arabidopsis</i> . <i>Journal of Pineal Research</i> , 2015, 59, 334-342.	7.7	170
121	<i>INDOLE-3-ACETIC ACID INDUCIBLE 17</i> positively modulates natural leaf senescence through melatonin-mediated pathway in <i>Arabidopsis</i> . <i>Journal of Pineal Research</i> , 2015, 58, 26-33.	7.7	170
122	Melatonin and the circadian system: contributions to successful female reproduction. <i>Fertility and Sterility</i> , 2014, 102, 321-328.	0.9	169
123	A Brief Survey of Pineal Gland-Immune System Interrelationships. <i>Endocrine Research</i> , 1992, 18, 91-113.	1.3	166
124	Ischemia/reperfusion-induced arrhythmias in the isolated rat heart: Prevention by melatonin. <i>Journal of Pineal Research</i> , 1998, 25, 184-191.	7.7	165
125	Augmentation of indices of oxidative damage in life-long melatonin-deficient rats. <i>Mechanisms of Ageing and Development</i> , 1999, 110, 157-173.	4.6	164
126	Molecular mechanisms of the pro-apoptotic actions of melatonin in cancer: a review. <i>Expert Opinion on Therapeutic Targets</i> , 2013, 17, 1483-1496.	3.5	163

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127	Melatonin attenuated early brain injury induced by subarachnoid hemorrhage via regulating <sc>NLRP</sc>3 inflammasome and apoptosis signaling. Journal of Pineal Research, 2016, 60, 253-262.	7.7	163
128	Neurotoxins: Free Radical Mechanisms and Melatonin Protection. Current Neuropharmacology, 2010, 8, 194-210.	3.0	162
129	Melatonin signaling in <sc>T</sc> cells: Functions and applications. Journal of Pineal Research, 2017, 62, e12394.	7.7	162
130	Melatonin in Plants. Nutrition Reviews, 2001, 59, 286-290.	5.9	161
131	Fundamental Issues Related to the Origin of Melatonin and Melatonin Isomers during Evolution: Relation to Their Biological Functions. International Journal of Molecular Sciences, 2014, 15, 15858-15890.	4.2	160
132	Melatonin: Roles in influenza, Covid-19, and other viral infections. Reviews in Medical Virology, 2020, 30, e2109.	8.4	157
133	Rhythms in immunoreactive melatonin in the retina and harderian gland of rats: Persistence after pinealectomy. Life Sciences, 1983, 32, 1229-1236.	4.4	156
134	Melatonin as a major skin protectant: from free radical scavenging to DNA damage repair. Experimental Dermatology, 2008, 17, 713-730.	2.9	156
135	Melatonin and sirtuins: A "so unexpected" relationship. Journal of Pineal Research, 2017, 62, e12391.	7.7	155
136	Melatonin reduces kainate-induced lipid peroxidation in homogenates of different brain regions. FASEB Journal, 1995, 9, 1205-1210.	0.5	153
137	A review of metal-catalyzed molecular damage: protection by melatonin. Journal of Pineal Research, 2014, 56, 343-370.	7.7	152
138	A review of melatonin as a suitable antioxidant against myocardial ischemia-reperfusion injury and clinical heart diseases. Journal of Pineal Research, 2014, 57, 357-366.	7.7	152
139	Visualization of melatonin's multiple mitochondrial levels of protection against mitochondrial Ca ²⁺ -mediated permeability transition and beyond in rat brain astrocytes. Journal of Pineal Research, 2010, 48, 20-38.	7.7	150
140	Melatonin and its metabolites as copper chelating agents and their role in inhibiting oxidative stress: a physicochemical analysis. Journal of Pineal Research, 2015, 58, 107-116.	7.7	150
141	When Melatonin Gets on Your Nerves: Its Beneficial Actions in Experimental Models of Stroke. Experimental Biology and Medicine, 2005, 230, 104-117.	2.4	149
142	Melatonin protects against diabetic cardiomyopathy through Mst1/Sirt3 signaling. Journal of Pineal Research, 2017, 63, e12418.	7.7	149
143	Mechanisms of Melatonin in Alleviating Alzheimer's Disease. Current Neuropharmacology, 2017, 15, 1010-1031.	3.0	148
144	Natural Variation in Banana Varieties Highlights the Role of Melatonin in Postharvest Ripening and Quality. Journal of Agricultural and Food Chemistry, 2017, 65, 9987-9994.	5.3	147

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145	Inhibition of neuronal nitric oxide synthase activity by N ¹ -acetyl-5-methoxykynuramine, a brain metabolite of melatonin. <i>Journal of Neurochemistry</i> , 2006, 98, 2023-2033.	4.0	146
146	Melatonin regulates mesenchymal stem cell differentiation: a review. <i>Journal of Pineal Research</i> , 2014, 56, 382-397.	7.7	146
147	Pineal Calcification, Melatonin Production, Aging, Associated Health Consequences and Rejuvenation of the Pineal Gland. <i>Molecules</i> , 2018, 23, 301.	3.9	146
148	Caloric restriction, resveratrol and melatonin: Role of SIRT1 and implications for aging and related-diseases. <i>Mechanisms of Ageing and Development</i> , 2015, 146-148, 28-41.	4.6	143
149	Pineal gland "magneto-sensitivity" to static magnetic fields is a consequence of induced electric currents (eddy currents). <i>Journal of Pineal Research</i> , 1991, 10, 109-116.	7.7	142
150	Chloroplastic biosynthesis of melatonin and its involvement in protection of plants from salt stress. <i>Scientific Reports</i> , 2017, 7, 41236.	3.4	141
151	Melatonin protects against maternal obesity-associated oxidative stress and meiotic defects in oocytes via the SIRT3-SOD2-dependent pathway. <i>Journal of Pineal Research</i> , 2017, 63, e12431.	7.7	140
152	Combination of melatonin and rapamycin for head and neck cancer therapy: Suppression of AKT/mTOR pathway activation, and activation of mitophagy and apoptosis via mitochondrial function regulation. <i>Journal of Pineal Research</i> , 2018, 64, e12461.	7.7	140
153	Importance of Melatonin in Assisted Reproductive Technology and Ovarian Aging. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1135.	4.2	140
154	Static and extremely low frequency electromagnetic field exposure: Reported effects on the circadian production of melatonin. <i>Journal of Cellular Biochemistry</i> , 1993, 51, 394-403.	2.6	138
155	Delivery of pineal melatonin to the brain and SCN: role of canaliculi, cerebrospinal fluid, tanycytes and Virchow-Robin perivascular spaces. <i>Brain Structure and Function</i> , 2014, 219, 1873-1887.	2.4	138
156	Melatonin: A pleiotropic molecule that modulates DNA damage response and repair pathways. <i>Journal of Pineal Research</i> , 2017, 63, e12416.	7.7	138
157	An evolutionary view of melatonin synthesis and metabolism related to its biological functions in plants. <i>Journal of Experimental Botany</i> , 2020, 71, 4677-4689.	4.9	138
158	Melatonin alleviates weaning stress in mice: Involvement of intestinal microbiota. <i>Journal of Pineal Research</i> , 2018, 64, e12448.	7.7	137
159	Melatonin delays leaf senescence of Chinese flowering cabbage by suppressing ABFs-mediated abscisic acid biosynthesis and chlorophyll degradation. <i>Journal of Pineal Research</i> , 2019, 67, e12570.	7.7	136
160	Inhibitory effect of melatonin on cataract formation in newborn rats: Evidence for an antioxidative role for melatonin. <i>Journal of Pineal Research</i> , 1994, 17, 94-100.	7.7	135
161	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> , 2001, 33, 775-783.	2.9	134
162	Mitochondria: the birth place, battle ground and the site of melatonin metabolism in cells. <i>Melatonin Research</i> , 2019, 2, 44-66.	1.1	134

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