

Russel J Reiter

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/843810/publications.pdf>

Version: 2024-02-01

678
papers

77,465
citations

268

141
h-index

799

247
g-index

685
all docs

685
docs citations

685
times ranked

39943
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	Pineal Melatonin: Cell Biology of Its Synthesis and of Its Physiological Interactions*. <i>Endocrine Reviews</i> , 1991, 12, 151-180.	20.1	1,977
3	Regulation of antioxidant enzymes: a significant role for melatonin. <i>Journal of Pineal Research</i> , 2004, 36, 1-9.	7.4	1,713
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.	7.4	1,373
5	Melatonin as an antioxidant: under promises but over delivers. <i>Journal of Pineal Research</i> , 2016, 61, 253-278.	7.4	1,126
6	Melatonin as a natural ally against oxidative stress: a physicochemical examination. <i>Journal of Pineal Research</i> , 2011, 51, 1-16.	7.4	963
7	Actions of melatonin in the reduction of oxidative stress. <i>Journal of Biomedical Science</i> , 2000, 7, 444-458.	7.0	944
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.	2.1	885
9	A review of the evidence supporting melatonin's role as an antioxidant. <i>Journal of Pineal Research</i> , 1995, 18, 1-11.	7.4	775
10	Extrapineal melatonin: sources, regulation, and potential functions. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 2997-3025.	5.4	766
11	Oxidative processes and antioxidative defense mechanisms in the aging brain ¹ . <i>FASEB Journal</i> , 1995, 9, 526-533.	0.5	763
12	Melatonin: an ancient molecule that makes oxygen metabolically tolerable. <i>Journal of Pineal Research</i> , 2015, 59, 403-419.	7.4	751
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.	7.4	679
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	603
15	A Review of the Multiple Actions of Melatonin on the Immune System. <i>Endocrine</i> , 2005, 27, 189-200.	2.2	548
16	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.	7.4	541
17	Melatonin membrane receptors in peripheral tissues: Distribution and functions. <i>Molecular and Cellular Endocrinology</i> , 2012, 351, 152-166.	3.2	531
18	Melatonin: The chemical expression of darkness. <i>Molecular and Cellular Endocrinology</i> , 1991, 79, C153-C158.	3.2	520

#	ARTICLE	IF	CITATIONS
19	Melatonin: A Multitasking Molecule. <i>Progress in Brain Research</i> , 2010, 181, 127-151.	1.4	520
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.	7.4	511
21	Melatonin enhances plant growth and abiotic stress tolerance in soybean plants. <i>Journal of Experimental Botany</i> , 2015, 66, 695-707.	4.8	493
22	COVID-19: Melatonin as a potential adjuvant treatment. <i>Life Sciences</i> , 2020, 250, 117583.	4.3	487
23	Extrapineal melatonin: analysis of its subcellular distribution and daily fluctuations. <i>Journal of Pineal Research</i> , 2012, 52, 217-227.	7.4	484
24	Melatonin as a Potent and Inducible Endogenous Antioxidant: Synthesis and Metabolism. <i>Molecules</i> , 2015, 20, 18886-18906.	3.8	476
25	Significance of Melatonin in Antioxidative Defense System: Reactions and Products. <i>NeuroSignals</i> , 2000, 9, 137-159.	0.9	470
26	Melatonin mitigates mitochondrial malfunction. <i>Journal of Pineal Research</i> , 2005, 38, 1-9.	7.4	464
27	Melatonin, hydroxyl radical-mediated oxidative damage, and aging: A hypothesis. <i>Journal of Pineal Research</i> , 1993, 14, 151-168.	7.4	463
28	Effects of Melatonin Treatment in Septic Newborns. <i>Pediatric Research</i> , 2001, 50, 756-760.	2.3	452
29	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.	7.4	440
30	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.	7.4	426
31	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.	4.8	425
32	Reducing oxidative/nitrosative stress: a newly-discovered genre for melatonin. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2009, 44, 175-200.	5.2	410
33	Melatonin Synthesis and Function: Evolutionary History in Animals and Plants. <i>Frontiers in Endocrinology</i> , 2019, 10, 249.	3.5	402
34	Melatonin: Exceeding Expectations. <i>Physiology</i> , 2014, 29, 325-333.	3.1	401
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.	2.9	396
36	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	387

#	ARTICLE	IF	CITATIONS
37	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.	7.4	386
38	Melatonin and endoplasmic reticulum stress: relation to autophagy and apoptosis. <i>Journal of Pineal Research</i> , 2015, 59, 292-307.	7.4	384
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.	7.4	376
40	Melatonin as a mitochondria-targeted antioxidant: one of evolution's best ideas. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3863-3881.	5.4	369
41	Melatonin and Its Relation to the Immune System and Inflammation. <i>Annals of the New York Academy of Sciences</i> , 2000, 917, 376-386.	3.8	366
42	Melatonin and the ovary: physiological and pathophysiological implications. <i>Fertility and Sterility</i> , 2009, 92, 328-343.	1.0	363
43	Melatonin, mitochondria, and cellular bioenergetics. <i>Journal of Pineal Research</i> , 2001, 30, 65-74.	7.4	350
44	Distribution of melatonin in mammalian tissues: The relative importance of nuclear versus cytosolic localization. <i>Journal of Pineal Research</i> , 1993, 15, 59-69.	7.4	349
45	Melatonin: reducing the toxicity and increasing the efficacy of drugs. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 54, 1299-1321.	2.4	349
46	Melatonin As a Free Radical Scavenger: Implications for Aging and Age-Related Diseases. <i>Annals of the New York Academy of Sciences</i> , 1994, 719, 1-12.	3.8	343
47	Free Radical-Mediated Molecular Damage. <i>Annals of the New York Academy of Sciences</i> , 2001, 939, 200-215.	3.8	341
48	Melatonin, cardiolipin and mitochondrial bioenergetics in health and disease. <i>Journal of Pineal Research</i> , 2010, 48, 297-310.	7.4	337
49	Melatonin, a Full Service Anti-Cancer Agent: Inhibition of Initiation, Progression and Metastasis. <i>International Journal of Molecular Sciences</i> , 2017, 18, 843.	4.1	335
50	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.	7.4	333
51	Melatonin: From Basic Research to Cancer Treatment Clinics. <i>Journal of Clinical Oncology</i> , 2002, 20, 2575-2601.	1.6	320
52	Melatonin and Reproduction Revisited. <i>Biology of Reproduction</i> , 2009, 81, 445-456.	2.7	320
53	The Safety of Melatonin in Humans. <i>Clinical Drug Investigation</i> , 2016, 36, 169-175.	2.2	320
54	High levels of melatonin in the seeds of edible plants. <i>Life Sciences</i> , 2000, 67, 3023-3029.	4.3	319

#	ARTICLE	IF	CITATIONS
55	Melatonin reprogramming of gut microbiota improves lipid dysmetabolism in high-fat diet-fed mice. <i>Journal of Pineal Research</i> , 2018, 65, e12524.	7.4	314
56	Melatonin in walnuts: Influence on levels of melatonin and total antioxidant capacity of blood. <i>Nutrition</i> , 2005, 21, 920-924.	2.4	304
57	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	298
58	Nuclear localization of melatonin in different mammalian tissues: Immunocytochemical and radioimmunoassay evidence. <i>Journal of Cellular Biochemistry</i> , 1993, 53, 373-382.	2.6	294
59	Phytomelatonin: Assisting Plants to Survive and Thrive. <i>Molecules</i> , 2015, 20, 7396-7437.	3.8	294
60	Phytomelatonin: a review. <i>Journal of Experimental Botany</i> , 2009, 60, 57-69.	4.8	289
61	Melatonin and mitochondrial function. <i>Life Sciences</i> , 2004, 75, 765-790.	4.3	286
62	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.	2.4	278
63	Melatonin: A Mitochondrial Targeting Molecule Involving Mitochondrial Protection and Dynamics. <i>International Journal of Molecular Sciences</i> , 2016, 17, 2124.	4.1	276
64	Melatonin prevents changes in microsomal membrane fluidity during induced lipid peroxidation. <i>FEBS Letters</i> , 1997, 408, 297-300.	2.8	273
65	Melatonin: clinical relevance. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2003, 17, 273-285.	4.7	271
66	The mammalian pineal gland: Structure and function. <i>American Journal of Anatomy</i> , 1981, 162, 287-313.	1.0	270
67	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	263
68	The <i>RNA-seq</i> 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.	7.4	263
69	Mitochondria: Central Organelles for Melatonin's Antioxidant and Anti-Aging Actions. <i>Molecules</i> , 2018, 23, 509.	3.8	263
70	Cardiovascular diseases: protective effects of melatonin. <i>Journal of Pineal Research</i> , 2008, 44, 16-25.	7.4	262
71	Melatonin: Current Status and Future Perspectives in Plant Science. <i>Frontiers in Plant Science</i> , 2015, 6, 1230.	3.6	262
72	Melatonin as a radioprotective agent: a review. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 59, 639-653.	0.8	259

#	ARTICLE	IF	CITATIONS
73	Alzheimer's disease: pathological mechanisms and the beneficial role of melatonin. <i>Journal of Pineal Research</i> , 2012, 52, 167-202.	7.4	255
74	Apoptosis signaling pathways in osteoarthritis and possible protective role of melatonin. <i>Journal of Pineal Research</i> , 2016, 61, 411-425.	7.4	254
75	Melatonin: a novel protective agent against oxidative injury of the ischemic/reperfused heart. <i>Cardiovascular Research</i> , 2003, 58, 10-19.	3.8	253
76	Melatonin: An Established Antioxidant Worthy of Use in Clinical Trials. <i>Molecular Medicine</i> , 2009, 15, 43-50.	4.4	253
77	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> , 1995, 18, 104-111.	7.4	252
78	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.	10.4	252
79	Both physiological and pharmacological levels of melatonin reduce DNA adduct formation induced by the carcinogen safrole. <i>Carcinogenesis</i> , 1994, 15, 215-218.	2.8	250
80	Cancer metastasis: Mechanisms of inhibition by melatonin. <i>Journal of Pineal Research</i> , 2017, 62, e12370.	7.4	245
81	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> , 2004, 37, 55-70.	7.4	240
82	The ageing pineal gland and its physiological consequences. <i>BioEssays</i> , 1992, 14, 169-175.	2.5	237
83	Melatonin and stable circadian rhythms optimize maternal, placental and fetal physiology. <i>Human Reproduction Update</i> , 2014, 20, 293-307.	10.8	235
84	Increased levels of malondialdehyde and nitrite/nitrate in the blood of asphyxiated newborns: reduction by melatonin. <i>Journal of Pineal Research</i> , 2001, 31, 343-349.	7.4	232
85	N1-acetyl-N2-formyl-5-methoxykynuramine, a biogenic amine and melatonin metabolite, functions as a potent antioxidant. <i>FASEB Journal</i> , 2001, 15, 1-16.	0.5	232
86	Melatonin and its metabolites vs oxidative stress: From individual actions to collective protection. <i>Journal of Pineal Research</i> , 2018, 65, e12514.	7.4	225
87	Melatonin induces nitric oxide and the potential mechanisms relate to innate immunity against bacterial pathogen infection in <i>Arabidopsis</i> . <i>Journal of Pineal Research</i> , 2015, 59, 102-108.	7.4	222
88	On the significance of an alternate pathway of melatonin synthesis via 5-methoxytryptamine: comparisons across species. <i>Journal of Pineal Research</i> , 2016, 61, 27-40.	7.4	219
89	HsfA1a upregulates melatonin biosynthesis to confer cadmium tolerance in tomato plants. <i>Journal of Pineal Research</i> , 2017, 62, e12387.	7.4	219
90	Melatonin protects against common deletion of mitochondrial DNA-augmented mitochondrial oxidative stress and apoptosis. <i>Journal of Pineal Research</i> , 2007, 43, 389-403.	7.4	217

#	ARTICLE	IF	CITATIONS
91	Melatonin: A Cutaneous Perspective on its Production, Metabolism, and Functions. <i>Journal of Investigative Dermatology</i> , 2018, 138, 490-499.	0.7	217
92	Melatonin-mitochondria Interplay in Health and Disease. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 221-240.	2.1	216
93	Antioxidant properties of the melatonin metabolite N1-acetyl-5-methoxykynuramine (AMK): scavenging of free radicals and prevention of protein destruction. <i>Redox Report</i> , 2003, 8, 205-213.	4.5	215
94	Melatonin prevents cell death and mitochondrial dysfunction via a SIRT1-dependent mechanism during ischemic stroke in mice. <i>Journal of Pineal Research</i> , 2015, 58, 61-70.	7.4	212
95	Melatonin mediates selenium-induced tolerance to cadmium stress in tomato plants. <i>Journal of Pineal Research</i> , 2016, 61, 291-302.	7.4	211
96	Phytomelatonin: a universal abiotic stress regulator. <i>Journal of Experimental Botany</i> , 2018, 69, 963-974.	4.8	211
97	Diabetic retinopathy pathogenesis and the ameliorating effects of melatonin; involvement of autophagy, inflammation and oxidative stress. <i>Life Sciences</i> , 2018, 193, 20-33.	4.3	210
98	Detection and Quantification of the Antioxidant Melatonin in Montmorency and Balaton Tart Cherries (<i>Prunus cerasus</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 4898-4902.	5.2	205
99	AGE-ASSOCIATED REDUCTION IN NOCTURNAL PINEAL MELATONIN LEVELS IN FEMALE RATS1. <i>Endocrinology</i> , 1981, 109, 1295-1297.	2.8	204
100	Sirtuins, melatonin and circadian rhythms: building a bridge between aging and cancer. <i>Journal of Pineal Research</i> , 2010, 48, 9-19.	7.4	199
101	The Keap1-Nrf2-antioxidant response element pathway: A review of its regulation by melatonin and the proteasome. <i>Molecular and Cellular Endocrinology</i> , 2015, 401, 213-220.	3.2	195
102	High physiological levels of melatonin in the bile of mammals. <i>Life Sciences</i> , 1999, 65, 2523-2529.	4.3	193
103	Melatonin feedback on clock genes: a theory involving the proteasome. <i>Journal of Pineal Research</i> , 2015, 58, 1-11.	7.4	193
104	Protective role of melatonin in cardiac ischemia-reperfusion injury: From pathogenesis to targeted therapy. <i>Journal of Pineal Research</i> , 2018, 64, e12471.	7.4	193
105	Rhythms of glutathione peroxidase and glutathione reductase in brain of chick and their inhibition by light. <i>Neurochemistry International</i> , 1998, 32, 69-75.	3.8	192
106	Novel rhythms of N1-acetyl-N2-formyl-5-methoxykynuramine and its precursor melatonin in water hyacinth: importance for phytoremediation. <i>FASEB Journal</i> , 2007, 21, 1724-1729.	0.5	192
107	Defining chronodisruption. <i>Journal of Pineal Research</i> , 2009, 46, 245-247.	7.4	192
108	The Universal Nature, Unequal Distribution and Antioxidant Functions of Melatonin and Its Derivatives. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 373-384.	2.4	191

#	ARTICLE	IF	CITATIONS
109	Reactive oxygen and nitrogen species and cellular and organismal decline: amelioration with melatonin. <i>Mechanisms of Ageing and Development</i> , 2002, 123, 1007-1019.	4.6	190
110	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> , 1976, 42, 752-764.	3.6	189
111	Light at Night, Chronodisruption, Melatonin Suppression, and Cancer Risk: A Review. <i>Critical Reviews in Oncogenesis</i> , 2007, 13, 303-328.	0.4	188
112	Characterization of high-affinity melatonin binding sites in purified cell nuclei of rat liver. <i>Journal of Pineal Research</i> , 1994, 16, 100-112.	7.4	186
113	Melatonin and circadian biology in human cardiovascular disease. <i>Journal of Pineal Research</i> , 2010, 49, no-no.	7.4	185
114	<i>Arabidopsis</i> serotonin <i>N</i> -acetyltransferase knockout mutant plants exhibit decreased melatonin and salicylic acid levels resulting in susceptibility to an avirulent pathogen. <i>Journal of Pineal Research</i> , 2015, 58, 291-299.	7.4	185
115	Melatonin alleviates brain injury in mice subjected to cecal ligation and puncture via attenuating inflammation, apoptosis, and oxidative stress: the role of <i>SIRT</i> 1 signaling. <i>Journal of Pineal Research</i> , 2015, 59, 230-239.	7.4	184
116	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.	7.4	178
117	Obesity and metabolic syndrome: Association with chronodisruption, sleep deprivation, and melatonin suppression. <i>Annals of Medicine</i> , 2012, 44, 564-577.	3.8	177
118	Physiological levels of melatonin contribute to the antioxidant capacity of human serum. <i>Journal of Pineal Research</i> , 1999, 27, 59-64.	7.4	176
119	Functional Pleiotropy of the Neurohormone Melatonin: Antioxidant Protection and Neuroendocrine Regulation. <i>Frontiers in Neuroendocrinology</i> , 1995, 16, 383-415.	5.2	174
120	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.	7.4	170
121	Protecting the Melatonin Rhythm through Circadian Healthy Light Exposure. <i>International Journal of Molecular Sciences</i> , 2014, 15, 23448-23500.	4.1	170
122	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.	2.9	168
123	A Brief Survey of Pineal Gland-Immune System Interrelationships. <i>Endocrine Research</i> , 1992, 18, 91-113.	1.2	166
124	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.	2.4	166
125	Ischemia/reperfusion-induced arrhythmias in the isolated rat heart: Prevention by melatonin. <i>Journal of Pineal Research</i> , 1998, 25, 184-191.	7.4	165
126	<i>INDOLE</i> -3- <i>ACETIC ACID</i> INDUCIBLE 17 positively modulates natural leaf senescence through melatonin-mediated pathway in <i>Arabidopsis</i> . <i>Journal of Pineal Research</i> , 2015, 58, 26-33.	7.4	164

#	ARTICLE	IF	CITATIONS
127	Long-term melatonin treatment delays ovarian aging. <i>Journal of Pineal Research</i> , 2017, 62, e12381.	7.4	164
128	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	163
129	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.	7.4	162
130	Neurotoxins: Free Radical Mechanisms and Melatonin Protection. <i>Current Neuropharmacology</i> , 2010, 8, 194-210.	2.9	161
131	Melatonin and the circadian system: contributions to successful female reproduction. <i>Fertility and Sterility</i> , 2014, 102, 321-328.	1.0	161
132	Melatonin attenuated early brain injury induced by subarachnoid hemorrhage via regulating <i>NLRP3</i> inflammasome and apoptosis signaling. <i>Journal of Pineal Research</i> , 2016, 60, 253-262.	7.4	160
133	Molecular mechanisms of the pro-apoptotic actions of melatonin in cancer: a review. <i>Expert Opinion on Therapeutic Targets</i> , 2013, 17, 1483-1496.	3.4	158
134	Melatonin in Plants. <i>Nutrition Reviews</i> , 2001, 59, 286-290.	5.8	156
135	Rhythms in immunoreactive melatonin in the retina and harderian gland of rats: Persistence after pinealectomy. <i>Life Sciences</i> , 1983, 32, 1229-1236.	4.3	155
136	Melatonin signaling in <i>T</i> cells: Functions and applications. <i>Journal of Pineal Research</i> , 2017, 62, e12394.	7.4	154
137	Melatonin reduces kainate-induced lipid peroxidation in homogenates of different brain regions. <i>FASEB Journal</i> , 1995, 9, 1205-1210.	0.5	153
138	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> , 2014, 15, 15858-15890.	4.1	153
139	Melatonin as a major skin protectant: from free radical scavenging to DNA damage repair. <i>Experimental Dermatology</i> , 2008, 17, 713-730.	2.9	151
140	A review of melatonin as a suitable antioxidant against myocardial ischemia-reperfusion injury and clinical heart diseases. <i>Journal of Pineal Research</i> , 2014, 57, 357-366.	7.4	150
141	Melatonin and sirtuins: A so unexpected relationship. <i>Journal of Pineal Research</i> , 2017, 62, e12391.	7.4	149
142	Melatonin: Roles in influenza, Covid-19, and other viral infections. <i>Reviews in Medical Virology</i> , 2020, 30, e2109.	8.3	149
143	When Melatonin Gets on Your Nerves: Its Beneficial Actions in Experimental Models of Stroke. <i>Experimental Biology and Medicine</i> , 2005, 230, 104-117.	2.4	148
144	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> , 2010, 48, 20-38.	7.4	145

#	ARTICLE	IF	CITATIONS
145	A review of metal-catalyzed molecular damage: protection by melatonin. <i>Journal of Pineal Research</i> , 2014, 56, 343-370.	7.4	145
146	Melatonin regulates mesenchymal stem cell differentiation: a review. <i>Journal of Pineal Research</i> , 2014, 56, 382-397.	7.4	143
147	Melatonin and its metabolites as copper chelating agents and their role in inhibiting oxidative stress: a physicochemical analysis. <i>Journal of Pineal Research</i> , 2015, 58, 107-116.	7.4	142
148	Pineal gland "magnetosensitivity" to static magnetic fields is a consequence of induced electric currents (eddy currents). <i>Journal of Pineal Research</i> , 1991, 10, 109-116.	7.4	141
149	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.	3.9	141
150	Mechanisms of Melatonin in Alleviating Alzheimer's Disease. <i>Current Neuropharmacology</i> , 2017, 15, 1010-1031.	2.9	140
151	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
152	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	137
153	Melatonin protects against diabetic cardiomyopathy through Mst1/Sirt3 signaling. <i>Journal of Pineal Research</i> , 2017, 63, e12418.	7.4	136
154	Delivery of pineal melatonin to the brain and SCN: role of canaliculi, cerebrospinal fluid, tanycytes and Virchow's perivascular spaces. <i>Brain Structure and Function</i> , 2014, 219, 1873-1887.	2.3	135
155	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.	2.8	134
156	Natural Variation in Banana Varieties Highlights the Role of Melatonin in Postharvest Ripening and Quality. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 9987-9994.	5.2	134
157	Melatonin protects against maternal obesity-associated oxidative stress and meiotic defects in oocytes via the SIRT3-dependent pathway. <i>Journal of Pineal Research</i> , 2017, 63, e12431.	7.4	134
158	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.	7.4	133
159	Chloroplastic biosynthesis of melatonin and its involvement in protection of plants from salt stress. <i>Scientific Reports</i> , 2017, 7, 41236.	3.3	133
160	Melatonin alleviates weanling stress in mice: Involvement of intestinal microbiota. <i>Journal of Pineal Research</i> , 2018, 64, e12448.	7.4	133
161	Pineal Calcification, Melatonin Production, Aging, Associated Health Consequences and Rejuvenation of the Pineal Gland. <i>Molecules</i> , 2018, 23, 301.	3.8	133
162	Melatonin: A pleiotropic molecule that modulates DNA damage response and repair pathways. <i>Journal of Pineal Research</i> , 2017, 63, e12416.	7.4	132

#	ARTICLE	IF	CITATIONS
163	Combination of melatonin and rapamycin for head and neck cancer therapy: Suppression of <scp>AKT</scp>/<scp>mTOR</scp> pathway activation, and activation of mitophagy and apoptosis via mitochondrial function regulation. Journal of Pineal Research, 2018, 64, e12461.	7.4	131
164	Mitochondria: the birth place, battle ground and the site of melatonin metabolism in cells. Melatonin Research, 2019, 2, 44-66.	1.1	130
165	Paraquat toxicity and oxidative damage. Biochemical Pharmacology, 1996, 51, 1095-1099.	4.4	129
166	Melatonin counteracts inducible mitochondrial nitric oxide synthase-dependent mitochondrial dysfunction in skeletal muscle of septic mice. Journal of Pineal Research, 2006, 40, 71-78.	7.4	129
167	Melatonin delays leaf senescence of Chinese flowering cabbage by suppressing ABFsâ€mediated abscisic acid biosynthesis and chlorophyll degradation. Journal of Pineal Research, 2019, 67, e12570.	7.4	128
168	Melatonin. Annals of the New York Academy of Sciences, 2002, 957, 341-344.	3.8	125
169	Melatonin as an antibiotic: new insights into the actions of this ubiquitous molecule. Journal of Pineal Research, 2008, 44, 222-226.	7.4	125
170	Melatonin protects against lipidâ€induced mitochondrial dysfunction in hepatocytes and inhibits stellate cell activation during hepatic fibrosis in mice. Journal of Pineal Research, 2017, 62, e12404.	7.4	125
171	Melatonin and its metabolites protect human melanocytes against UVB-induced damage: Involvement of NRF2-mediated pathways. Scientific Reports, 2017, 7, 1274.	3.3	124
172	Therapeutic potential of melatonin related to its role as an autophagy regulator: A review. Journal of Pineal Research, 2019, 66, e12534.	7.4	124
173	Melatonin administration prevents lipopolysaccharide-induced oxidative damage in phenobarbital-treated animals. Journal of Cellular Biochemistry, 1995, 58, 436-444.	2.6	122
174	Local Melatonergic System as the Protector of Skin Integrity. International Journal of Molecular Sciences, 2014, 15, 17705-17732.	4.1	122
175	EFFECT OF MELATONIN ON NF-ÎB DNA-BINDING ACTIVITY IN THE RAT SPLEEN. Cell Biology International, 1996, 20, 687-692.	3.0	121
176	Melatonin Regulates Root Meristem by Repressing Auxin Synthesis and Polar Auxin Transport in Arabidopsis. Frontiers in Plant Science, 2016, 07, 1882.	3.6	121
177	An evolutionary view of melatonin synthesis and metabolism related to its biological functions in plants. Journal of Experimental Botany, 2020, 71, 4677-4689.	4.8	121
178	Melatonin: Lowering the High Price of Free Radicals. Physiology, 2000, 15, 246-250.	3.1	120
179	Chronodisruption and cancer. Die Naturwissenschaften, 2008, 95, 367-382.	1.6	119
180	Comparative physiological and proteomic analyses reveal the actions of melatonin in the reduction of oxidative stress in Bermuda grass (<i>Cynodon dactylon</i> (L). Pers.). Journal of Pineal Research, 2015, 59, 120-131.	7.4	119

#	ARTICLE	IF	CITATIONS
181	Melatonin and human reproduction. <i>Annals of Medicine</i> , 1998, 30, 103-108.	3.8	118
182	Melatonin Reduces Oxidant Damage and Promotes Mitochondrial Respiration. <i>Annals of the New York Academy of Sciences</i> , 2002, 959, 238-250.	3.8	118
183	Metabolism of melatonin and biological activity of intermediates of melatonergic pathway in human skin cells. <i>FASEB Journal</i> , 2013, 27, 2742-2755.	0.5	118
184	Exogenous and endogenous control of the annual reproductive cycle in the male golden hamster: Participation of the pineal gland. <i>The Journal of Experimental Zoology</i> , 1975, 191, 111-119.	1.4	117
185	Increased levels of oxidatively damaged DNA induced by chromium(III) and H ₂ O ₂ : protection by melatonin and related molecules. <i>Journal of Pineal Research</i> , 2000, 29, 54-61.	7.4	117
186	Melatonin as a Pharmacological Agent against Neuronal Loss in Experimental Models of Huntington's Disease, Alzheimer's Disease and Parkinsonism. <i>Annals of the New York Academy of Sciences</i> , 1999, 890, 471-485.	3.8	115
187	Importance of Melatonin in Assisted Reproductive Technology and Ovarian Aging. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1135.	4.1	115
188	Melatonin reduces lipid peroxidation and membrane viscosity. <i>Frontiers in Physiology</i> , 2014, 5, 377.	2.8	114
189	Interrelationships of the chronobiotic, melatonin, with leptin and adiponectin: implications for obesity. <i>Journal of Pineal Research</i> , 2015, 59, 277-291.	7.4	114
190	Melatonin uptake through glucose transporters: a new target for melatonin inhibition of cancer. <i>Journal of Pineal Research</i> , 2015, 58, 234-250.	7.4	114
191	Melatonin Attenuates Potato Late Blight by Disrupting Cell Growth, Stress Tolerance, Fungicide Susceptibility and Homeostasis of Gene Expression in <i>Phytophthora infestans</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1993.	3.6	114
192	What constitutes a physiological concentration of melatonin?. <i>Journal of Pineal Research</i> , 2003, 34, 79-80.	7.4	113
193	Role of melatonin in metabolic regulation. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2009, 10, 261-270.	5.7	113
194	Beneficial effects of melatonin in cardiovascular disease. <i>Annals of Medicine</i> , 2010, 42, 276-285.	3.8	113
195	Comparative metabolomic analysis highlights the involvement of sugars and glycerol in melatonin-mediated innate immunity against bacterial pathogen in <i>Arabidopsis</i> . <i>Scientific Reports</i> , 2015, 5, 15815.	3.3	113
196	Melatonin prevents abnormal mitochondrial dynamics resulting from the neurotoxicity of cadmium by blocking calcium-dependent translocation of Drp1 to the mitochondria. <i>Journal of Pineal Research</i> , 2016, 60, 291-302.	7.4	113
197	Melatonin alleviates low PS_2 limited carbon assimilation under elevated CO_2 and enhances the cold tolerance of offspring in chlorophyll deficient mutant wheat. <i>Journal of Pineal Research</i> , 2018, 64, e12453.	7.4	113
198	Role of melatonin in controlling angiogenesis under physiological and pathological conditions. <i>Angiogenesis</i> , 2020, 23, 91-104.	7.2	110

#	ARTICLE	IF	CITATIONS
199	Pineal indoleamines and vitamin E reduce nitric oxide-induced lipid peroxidation in rat retinal homogenates. <i>Journal of Pineal Research</i> , 1999, 27, 122-128.	7.4	109
200	Melatonin attenuates calpain upregulation, axonal damage and neuronal death in spinal cord injury in rats. <i>Journal of Pineal Research</i> , 2008, 44, 348-357.	7.4	109
201	Melatonin resynchronizes dysregulated circadian rhythm circuitry in human prostate cancer cells. <i>Journal of Pineal Research</i> , 2010, 49, no-no.	7.4	109
202	The circadian melatonin rhythm and its modulation: possible impact on hypertension. <i>Journal of Hypertension</i> , 2009, 27, S17-S20.	0.5	107
203	Melatonin induces pro-apoptotic signaling pathway in human pancreatic carcinoma cells (PANC-1). <i>Journal of Pineal Research</i> , 2010, 49, 248-255.	7.4	106
204	Lungs as target of COVID-19 infection: Protective common molecular mechanisms of vitamin D and melatonin as a new potential synergistic treatment. <i>Life Sciences</i> , 2020, 254, 117808.	4.3	106
205	A new balancing act: The many roles of melatonin and serotonin in plant growth and development. <i>Plant Signaling and Behavior</i> , 2015, 10, e1096469.	2.4	105
206	Targeting autophagy in ischemic stroke: From molecular mechanisms to clinical therapeutics. , 2021, 225, 107848.		105
207	Phytomelatonin: An Emerging Regulator of Plant Biotic Stress Resistance. <i>Trends in Plant Science</i> , 2021, 26, 70-82.	8.8	103
208	Melatonin counteracts lipid peroxidation induced by carbon tetrachloride but does not restore glucose-6 phosphatase activity. <i>Journal of Pineal Research</i> , 1995, 19, 1-6.	7.4	102
209	Melatonin protects hippocampal neurons in vivo against kainic acid-induced damage in mice. , 1998, 54, 382-389.		102
210	Purslane: a plant source of omega-3 fatty acids and melatonin. <i>Journal of Pineal Research</i> , 2005, 39, 331-332.	7.4	101
211	Melatonin reduces endothelin-1 expression and secretion in colon cancer cells through the inactivation of FoxO1 and NF- κ B. <i>Journal of Pineal Research</i> , 2014, 56, 415-426.	7.4	100
212	Melatonin mediates mucosal immune cells, microbial metabolism, and rhythm crosstalk: A therapeutic target to reduce intestinal inflammation. <i>Medicinal Research Reviews</i> , 2020, 40, 606-632.	10.5	100
213	Pharmacological utility of melatonin in reducing oxidative cellular and molecular damage. <i>Polish Journal of Pharmacology</i> , 2004, 56, 159-70.	0.3	100
214	Melatonin prevents increases in neural nitric oxide and cyclic GMP production after transient brain ischemia and reperfusion in the Mongolian gerbil (<i>Meriones Unguiculatus</i>). <i>Journal of Pineal Research</i> , 1997, 23, 24-31.	7.4	99
215	Therapeutic potential of melatonin in traumatic central nervous system injury. <i>Journal of Pineal Research</i> , 2009, 47, 134-142.	7.4	99
216	Melatonin in regulation of inflammatory pathways in rheumatoid arthritis and osteoarthritis: involvement of circadian clock genes. <i>British Journal of Pharmacology</i> , 2018, 175, 3230-3238.	5.4	99

#	ARTICLE	IF	CITATIONS
217	Melatonin and protection from genetic damage in blood and bone marrow: Whole-body irradiation studies in mice. <i>Journal of Pineal Research</i> , 1999, 27, 221-225.	7.4	98
218	Pharmacological utility of melatonin in the treatment of septic shock: experimental and clinical evidence. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 1153-1165.	2.4	98
219	Oxidative Stress-Mediated Aging during the Fetal and Perinatal Periods. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-8.	4.0	98
220	Melatonin and Tryptophan Derivatives as Free Radical Scavengers and Antioxidants. <i>Advances in Experimental Medicine and Biology</i> , 1999, 467, 379-387.	1.6	97
221	Melatonin increases brown adipose tissue mass and function in Zucker diabetic fatty rats: implications for obesity control. <i>Journal of Pineal Research</i> , 2018, 64, e12472.	7.4	97
222	Protective action of melatonin against oxidative DNA damage—Chemical inactivation versus base-excision repair. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2007, 634, 220-227.	1.7	96
223	Melatonin combats molecular terrorism at the mitochondrial level. <i>Interdisciplinary Toxicology</i> , 2008, 1, 137-149.	1.0	96
224	Melatonin suppresses TPA-induced metastasis by downregulating matrix metalloproteinase-9 expression through JNK/SP-1 signaling in nasopharyngeal carcinoma. <i>Journal of Pineal Research</i> , 2016, 61, 479-492.	7.4	95
225	Melatonin: Detoxification of Oxygen And Nitrogen-Based Toxic Reactants. <i>Advances in Experimental Medicine and Biology</i> , 2003, 527, 539-548.	1.6	95
226	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	95
227	Potent protective effect of melatonin on in vivo paraquat-induced oxidative damage in rats. <i>Life Sciences</i> , 1994, 56, 83-89.	4.3	94
228	Melatonin and mitochondrial function during ischemia/reperfusion injury. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3989-3998.	5.4	94
229	Melatonin and vitamin E limit nitric oxide-induced lipid peroxidation in rat brain homogenates. <i>Neuroscience Letters</i> , 1997, 230, 147-150.	2.1	92
230	Melatonin regulates glucocorticoid receptor: an answer to its antiapoptotic action in thymus. <i>FASEB Journal</i> , 1999, 13, 1547-1556.	0.5	92
231	Protective effect of melatonin against mitochondrial injury induced by ischemia and reperfusion of rat liver. <i>European Journal of Pharmacology</i> , 2003, 469, 145-152.	3.5	92
232	Melatonin administration lowers biomarkers of oxidative stress and cardio-metabolic risk in type 2 diabetic patients with coronary heart disease: A randomized, double-blind, placebo-controlled trial. <i>Clinical Nutrition</i> , 2019, 38, 191-196.	5.0	92
233	Melatonin protects against stress-induced gastric lesions by scavenging the hydroxyl radical. <i>Journal of Pineal Research</i> , 2000, 29, 143-151.	7.4	91
234	Light, timing of biological rhythms, and chronodisruption in man. <i>Die Naturwissenschaften</i> , 2003, 90, 485-494.	1.6	91

#	ARTICLE	IF	CITATIONS
235	Melatonin attenuates metabolic disorders due to streptozotocin-induced diabetes in rats. <i>European Journal of Pharmacology</i> , 2007, 569, 180-187.	3.5	91
236	Diabetes and Alzheimer Disease, Two Overlapping Pathologies with the Same Background: Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2015, 2015, 1-14.	4.0	91
237	Melatonin: the dawning of a treatment for fibrosis?. <i>Journal of Pineal Research</i> , 2016, 60, 121-131.	7.4	91
238	Identification, transcriptional and functional analysis of heat shock protein 90s in banana (<i>Musa acuminata</i>) highlight their novel role in melatonin-mediated plant response to Fusarium wilt. <i>Journal of Pineal Research</i> , 2017, 62, e12367.	7.4	91
239	Metabolism of melatonin in the skin: Why is it important?. <i>Experimental Dermatology</i> , 2017, 26, 563-568.	2.9	91
240	Crosstalk between endoplasmic reticulum stress and anti-viral activities: A novel therapeutic target for COVID-19. <i>Life Sciences</i> , 2020, 255, 117842.	4.3	91
241	Significance of High Levels of Endogenous Melatonin in Mammalian Cerebrospinal Fluid and in the Central Nervous System. <i>Current Neuropharmacology</i> , 2010, 8, 162-167.	2.9	91
242	Exogenous melatonin as a treatment for secondary sleep disorders: A systematic review and meta-analysis. <i>Frontiers in Neuroendocrinology</i> , 2019, 52, 22-28.	5.2	90
243	Resveratrol is a promising agent for colorectal cancer prevention and treatment: focus on molecular mechanisms. <i>Cancer Cell International</i> , 2019, 19, 180.	4.1	90
244	Pineal opioid receptors and analgesic action of melatonin. <i>Journal of Pineal Research</i> , 1998, 24, 193-200.	7.4	88
245	Melatonin: The smart killer. <i>Molecular and Cellular Endocrinology</i> , 2012, 348, 1-11.	3.2	87
246	Melatonin in Edible Plants (Phytomelatonin): Identification, Concentrations, Bioavailability and Proposed Functions. , 2006, 97, 211-230.		86
247	The inhibition of apoptosis by melatonin in VSC4.1 motoneurons exposed to oxidative stress, glutamate excitotoxicity, or TNF- α toxicity involves membrane melatonin receptors. <i>Journal of Pineal Research</i> , 2010, 48, 157-169.	7.4	86
248	Melatonin as a potential anticarcinogen for non-small-cell lung cancer. <i>Oncotarget</i> , 2016, 7, 46768-46784.	1.8	85
249	Melatonin reduces H ₂ O ₂ -induced lipid peroxidation in homogenates of different rat brain regions. <i>Journal of Pineal Research</i> , 1995, 19, 51-56.	7.4	84
250	Melatonin and its metabolites ameliorate ultraviolet B-induced damage in human epidermal keratinocytes. <i>Journal of Pineal Research</i> , 2014, 57, 90-102.	7.4	84
251	The role of melatonin, a multitasking molecule, in retarding the processes of ageing. <i>Ageing Research Reviews</i> , 2018, 47, 198-213.	10.9	84
252	Acute lung injury: The therapeutic role of Rho kinase inhibitors. <i>Pharmacological Research</i> , 2020, 155, 104736.	7.1	84

#	ARTICLE	IF	CITATIONS
253	Melatonin protects against isoproterenol-induced myocardial injury in the rat: antioxidative mechanisms. <i>Journal of Pineal Research</i> , 2010, 48, 251-262.	7.4	83
254	Melatonin stabilizes rupture-prone vulnerable plaques via regulating macrophage polarization in a nuclear circadian receptor ROR α -dependent manner. <i>Journal of Pineal Research</i> , 2019, 67, e12581.	7.4	83
255	Melatonin uses in oncology: breast cancer prevention and reduction of the side effects of chemotherapy and radiation. <i>Expert Opinion on Investigational Drugs</i> , 2012, 21, 819-831.	4.1	82
256	Melatonin Improves the Photosynthetic Apparatus in Pea Leaves Stressed by Paraquat via Chlorophyll Breakdown Regulation and Its Accelerated de novo Synthesis. <i>Frontiers in Plant Science</i> , 2017, 8, 878.	3.6	82
257	Therapeutic Algorithm for Use of Melatonin in Patients With COVID-19. <i>Frontiers in Medicine</i> , 2020, 7, 226.	2.6	82
258	Inhibition of proliferation and induction of apoptosis by melatonin in human myeloid HL-60 cells. <i>Journal of Pineal Research</i> , 2007, 42, 131-138.	7.4	81
259	Melatonin down-regulates MDM2 gene expression and enhances p53 acetylation in MCF7 cells. <i>Journal of Pineal Research</i> , 2014, 57, 120-129.	7.4	81
260	Daily rhythms of phytemelatonin signaling modulate diurnal stomatal closure via regulating reactive oxygen species dynamics in <i>Arabidopsis</i> . <i>Journal of Pineal Research</i> , 2020, 68, e12640.	7.4	81
261	Ischemic brain injury: New insights on the protective role of melatonin. <i>Free Radical Biology and Medicine</i> , 2017, 104, 32-53.	2.9	80
262	Melatonin Mitigates Mitochondrial Meltdown: Interactions with SIRT3. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2439.	4.1	80
263	Melatonin: A Multifunctional Molecule That Triggers Defense Responses against High Light and Nitrogen Starvation Stress in <i>Haematococcus pluvialis</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 7701-7711.	5.2	79
264	Melatonin activates Parkin translocation and rescues the impaired mitophagy activity of diabetic cardiomyopathy through Mst1 inhibition. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 5132-5144.	3.6	79
265	Melatonin decreases cell proliferation and induces melanogenesis in human melanoma SK-MEL-1 cells. <i>Journal of Pineal Research</i> , 2010, 49, no-no.	7.4	78
266	Inhibiting MT2-dependent autophagy enhances melatonin-induced apoptosis in tongue squamous cell carcinoma. <i>Journal of Pineal Research</i> , 2018, 64, e12457.	7.4	78
267	Histophysiological evidence for the secretion of polypeptides by the pineal gland. <i>American Journal of Anatomy</i> , 1975, 143, 451-464.	1.0	77
268	Protective Role of Melatonin in Neonatal Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-6.	4.0	77
269	Melatonin and its derivatives counteract the ultraviolet B radiation-induced damage in human and porcine skin ex vivo. <i>Journal of Pineal Research</i> , 2018, 65, e12501.	7.4	77
270	Antioxidative Effects of Melatonin in Protection Against Cellular Damage Caused by Ionizing Radiation. <i>Proceedings of the Society for Experimental Biology and Medicine</i> , 2000, 225, 9-22.	1.8	77

#	ARTICLE	IF	CITATIONS
271	The efficacy of vitamin E and melatonin as antioxidants against lipid peroxidation in rat retinal homogenates. <i>Journal of Pineal Research</i> , 1998, 24, 239-244.	7.4	75
272	Melatonin Relieves the Neural Oxidative Burden that Contributes to Dementias. <i>Annals of the New York Academy of Sciences</i> , 2004, 1035, 179-196.	3.8	75
273	Pro-Oxidant Effect of Melatonin in Tumour Leucocytes: Relation with its Cytotoxic and Pro-Apoptotic Effects. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2011, 108, 14-20.	2.5	75
274	Predominance of 2-hydroxymelatonin over melatonin in plants. <i>Journal of Pineal Research</i> , 2015, 59, 448-454.	7.4	74
275	Melatonin in Mitochondria: Mitigating Clear and Present Dangers. <i>Physiology</i> , 2020, 35, 86-95.	3.1	74
276	Melatonin mediates the stabilization of DELLA proteins to repress the floral transition in Arabidopsis. <i>Journal of Pineal Research</i> , 2016, 60, 373-379.	7.4	73
277	Beneficial actions of melatonin in the management of viral infections: a new use for this "molecular handyman". <i>Reviews in Medical Virology</i> , 2012, 22, 323-338.	8.3	72
278	Melatonin and its atheroprotective effects: A review. <i>Molecular and Cellular Endocrinology</i> , 2014, 382, 926-937.	3.2	72
279	Melatonin reduces hepatic mitochondrial dysfunction in diabetic obese rats. <i>Journal of Pineal Research</i> , 2015, 59, 70-79.	7.4	72
280	Melatonin Application to Pisum sativum L. Seeds Positively Influences the Function of the Photosynthetic Apparatus in Growing Seedlings during Paraquat-Induced Oxidative Stress. <i>Frontiers in Plant Science</i> , 2016, 7, 1663.	3.6	72
281	Elevated heart rate and nondipping heart rate as potential targets for melatonin: a review. <i>Journal of Pineal Research</i> , 2016, 61, 127-137.	7.4	72
282	Evaluating the protective effects of melatonin on di(2-ethylhexyl) phthalate-induced testicular injury in adult mice. <i>Biomedicine and Pharmacotherapy</i> , 2018, 108, 515-523.	5.6	72
283	Indole-3-propionic acid, a melatonin-related molecule, protects hepatic microsomal membranes from iron-induced oxidative damage: Relevance to cancer reduction. <i>Journal of Cellular Biochemistry</i> , 2001, 81, 507-513.	2.6	71
284	Resynchronization of hormonal rhythms after an eastbound flight in humans: effects of slow-release caffeine and melatonin. <i>European Journal of Applied Physiology</i> , 2001, 85, 144-150.	2.5	70
285	The multiple functions of melatonin in regenerative medicine. <i>Ageing Research Reviews</i> , 2018, 45, 33-52.	10.9	70
286	Melatonin protects hepatic mitochondrial respiratory chain activity in senescence-accelerated mice. <i>Journal of Pineal Research</i> , 2002, 32, 143-148.	7.4	69
287	Clinical relevance of melatonin in ovarian and placental physiology: a review. <i>Gynecological Endocrinology</i> , 2014, 30, 83-89.	1.7	69
288	Oxidative/nitrosative stress, autophagy and apoptosis as therapeutic targets of melatonin in idiopathic pulmonary fibrosis. <i>Expert Opinion on Therapeutic Targets</i> , 2018, 22, 1049-1061.	3.4	69

#	ARTICLE	IF	CITATIONS
289	Role of melatonin in the epigenetic regulation of breast cancer. <i>Breast Cancer Research and Treatment</i> , 2009, 115, 13-27.	2.5	68
290	Update on the use of melatonin in pediatrics. <i>Journal of Pineal Research</i> , 2011, 50, 21-28.	7.4	68
291	Melatonin antagonizes cadmium-induced neurotoxicity by activating the transcription factor EB-dependent autophagy-lysosome machinery in mouse neuroblastoma cells. <i>Journal of Pineal Research</i> , 2016, 61, 353-369.	7.4	68
292	Melatonin alleviates postinfarction cardiac remodeling and dysfunction by inhibiting Mst1. <i>Journal of Pineal Research</i> , 2017, 62, e12368.	7.4	68
293	Magnetic field effects on pineal indoleamine metabolism and possible biological consequences. <i>FASEB Journal</i> , 1992, 6, 2283-2287.	0.5	67
294	Molecular cloning of melatonin 3-hydroxylase and its production of cyclic 3-hydroxymelatonin in rice (<i>Oryza sativa</i>). <i>Journal of Pineal Research</i> , 2016, 61, 470-478.	7.4	67
295	Food restriction retards aging of the pineal gland. <i>Brain Research</i> , 1991, 545, 66-72.	2.2	66
296	Effect of intravenous and intracoronary melatonin as an adjunct to primary percutaneous coronary intervention for acute ST-elevation myocardial infarction: Results of the Melatonin Adjunct in the acute myocardial Infarction treated with Angioplasty trial. <i>Journal of Pineal Research</i> , 2017, 62, e12374.	7.4	66
297	Administration of Melatonin and Related Indoles Prevents Exercise-Induced Cellular Oxidative Changes in Rats. <i>NeuroSignals</i> , 1997, 6, 90-100.	0.9	64
298	The protective role of endogenous melatonin in carrageenan-induced pleurisy in the rat. <i>FASEB Journal</i> , 1999, 13, 1930-1938.	0.5	64
299	Interaction of melatonin and Bmal1 in the regulation of PI3K/AKT pathway components and cellular survival. <i>Scientific Reports</i> , 2019, 9, 19082.	3.3	63
300	Light-Mediated Perturbations of Circadian Timing and Cancer Risk: A Mechanistic Analysis. <i>Integrative Cancer Therapies</i> , 2009, 8, 354-360.	2.0	62
301	Melatonin inhibits the proliferation of human osteosarcoma cell line MG-63. <i>Bone</i> , 2013, 55, 432-438.	2.9	62
302	Melatonin, bone regulation and the ubiquitin-proteasome connection: A review. <i>Life Sciences</i> , 2016, 145, 152-160.	4.3	62
303	Melatonin's role as a co-adjuvant treatment in colonic diseases: A review. <i>Life Sciences</i> , 2017, 170, 72-81.	4.3	62
304	Clinical Uses of Melatonin in Neurological Diseases and Mental and Behavioural Disorders. <i>Current Medicinal Chemistry</i> , 2017, 24, 3851-3878.	2.4	62
305	Melatonin Ameliorates Neurologic Damage and Neurophysiologic Deficits in Experimental Models of Stroke. <i>Annals of the New York Academy of Sciences</i> , 2003, 993, 35-47.	3.8	61
306	Ebola virus disease: potential use of melatonin as a treatment. <i>Journal of Pineal Research</i> , 2014, 57, 381-384.	7.4	61

#	ARTICLE	IF	CITATIONS
307	Inhibition of SERPINA3-dependent neuroinflammation is essential for melatonin to ameliorate trimethyltin chloride-induced neurotoxicity. <i>Journal of Pineal Research</i> , 2019, 67, e12596.	7.4	61
308	Melatonin Inhibits COVID-19-induced Cytokine Storm by Reversing Aerobic Glycolysis in Immune Cells: A Mechanistic Analysis. <i>Medicine in Drug Discovery</i> , 2020, 6, 100044.	4.5	61
309	Melatonin inhibits seed germination by crosstalk with abscisic acid, gibberellin, and auxin in Arabidopsis. <i>Journal of Pineal Research</i> , 2021, 70, e12736.	7.4	61
310	Suppressive effect of melatonin administration on ethanol-induced gastroduodenal injury in rats in vivo. <i>British Journal of Pharmacology</i> , 1997, 121, 264-270.	5.4	60
311	Melatonin overcomes MCR-mediated colistin resistance in Gram-negative pathogens. <i>Theranostics</i> , 2020, 10, 10697-10711.	10.0	60
312	Melatonin Suppression by Static and Extremely Low Frequency Electromagnetic Fields: Relationship to the Reported Increased Incidence of Cancer. <i>Reviews on Environmental Health</i> , 1994, 10, 171-86.	2.4	59
313	Usefulness of Early Treatment With Melatonin to Reduce Infarct Size in Patients With ST-Segment Elevation Myocardial Infarction Receiving Percutaneous Coronary Intervention (From the Melatonin) <i>Tj ETQq1 1 0.784314 rgBT /Over</i> <i>Cardiology</i> , 2017, 120, 522-526.	1.6	59
314	Melatonin: A new inhibitor agent for cervical cancer treatment. <i>Journal of Cellular Physiology</i> , 2019, 234, 21670-21682.	4.1	59
315	Neuroendocrine effects of light. <i>International Journal of Biometeorology</i> , 1991, 35, 169-175.	3.0	58
316	Potential Utility of Melatonin in Preeclampsia, Intrauterine Fetal Growth Retardation, and Perinatal Asphyxia. <i>Reproductive Sciences</i> , 2016, 23, 970-977.	2.5	58
317	Melatonin protects against the pathological cardiac hypertrophy induced by transverse aortic constriction through activating $\text{PGC}\alpha 1^2$: In vivo and in vitro studies. <i>Journal of Pineal Research</i> , 2017, 63, e12433.	7.4	58
318	Melatonin: Protection against age-related cardiac pathology. <i>Ageing Research Reviews</i> , 2017, 35, 336-349.	10.9	58
319	Melatonin as a promising agent to treat ovarian cancer: molecular mechanisms. <i>Carcinogenesis</i> , 2017, 38, 945-952.	2.8	58
320	ALDH2 contributes to melatonin-induced protection against APP/PS1 mutation-prompted cardiac anomalies through cGAS-STING-TBK1-mediated regulation of mitophagy. <i>Signal Transduction and Targeted Therapy</i> , 2020, 5, 119.	17.1	58
321	Actions of Melatonin in the Reduction of Oxidative Stress. <i>Journal of Biomedical Science</i> , 2000, 7, 444-458.	7.0	58
322	The Influence of Various Irradiances of Artificial Light, Twilight, and Moonlight on the Suppression of Pineal Melatonin Content in the Syrian Hamster. <i>Journal of Pineal Research</i> , 1984, 1, 105-119.	7.4	57
323	Melatonin Absence Leads to Long-Term Leptin Resistance and Overweight in Rats. <i>Frontiers in Endocrinology</i> , 2018, 9, 122.	3.5	57
324	Curcumin and its analogues protect from endoplasmic reticulum stress: Mechanisms and pathways. <i>Pharmacological Research</i> , 2019, 146, 104335.	7.1	57

#	ARTICLE	IF	CITATIONS
325	Thyroxine 5 α -Deiodinase Activity in Pineal Gland and Frontal Cortex: Nighttime Increase and the Effect of Either Continuous Light Exposure or Superior Cervical Ganglionectomy*. <i>Endocrinology</i> , 1988, 122, 236-241.	2.8	56
326	CSF generation by pineal gland results in a robust melatonin circadian rhythm in the third ventricle as an unique light/dark signal. <i>Medical Hypotheses</i> , 2016, 86, 3-9.	1.5	56
327	Melatonin as a proteasome inhibitor. Is there any clinical evidence?. <i>Life Sciences</i> , 2014, 115, 8-14.	4.3	55
328	Synergistic anti-oomycete effect of melatonin with a biofungicide against oomycetic black shank disease. <i>Journal of Pineal Research</i> , 2018, 65, e12492.	7.4	55
329	Melatonin, Longevity and Health in the Aged: An Assessment. <i>Free Radical Research</i> , 2002, 36, 1323-1329.	3.3	54
330	Exogenous melatonin improves cotton (<i>Gossypium hirsutum</i> L.) pollen fertility under drought by regulating carbohydrate metabolism in male tissues. <i>Plant Physiology and Biochemistry</i> , 2020, 151, 579-588.	5.8	54
331	Treatment of ebola and other infectious diseases: melatonin "goes viral". <i>Melatonin Research</i> , 2020, 3, 43-57.	1.1	54
332	Melatonin reduces the increase in 8-hydroxy-deoxyguanosine levels in the brain and liver of kainic acid-treated rats. <i>Molecular and Cellular Biochemistry</i> , 1998, 178, 299-303.	3.1	53
333	Relative efficacies of indole antioxidants in reducing autoxidation and iron-induced lipid peroxidation in hamster testes. <i>Journal of Cellular Biochemistry</i> , 2001, 81, 693-699.	2.6	53
334	Effects of melatonin administration on mental health parameters, metabolic and genetic profiles in women with polycystic ovary syndrome: A randomized, double-blind, placebo-controlled trial. <i>Journal of Affective Disorders</i> , 2019, 250, 51-56.	4.1	53
335	Biogenic amines in the reduction of oxidative stress: melatonin and its metabolites. <i>Neuroendocrinology Letters</i> , 2008, 29, 391-8.	0.2	53
336	Immunohistological localization of melatonin in the pineal gland and retina of the rat. <i>Journal of Pineal Research</i> , 1991, 10, 159-164.	7.4	52
337	Melatonin inhibits Warburg-dependent cancer by redirecting glucose oxidation to the mitochondria: a mechanistic hypothesis. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 2527-2542.	5.4	52
338	Subcutaneous Melatonin Implants Inhibit Reproductive Atrophy in Male Hamsters Induced by Daily Melatonin Injections. <i>Endocrine Research Communications</i> , 1977, 4, 35-44.	0.5	51
339	Inhibition of mitochondrial pyruvate dehydrogenase kinase: a proposed mechanism by which melatonin causes cancer cells to overcome cytosolic glycolysis, reduce tumor biomass and reverse insensitivity to chemotherapy. <i>Melatonin Research</i> , 2019, 2, 105-119.	1.1	51
340	Interactions between melatonin and nicotinamide nucleotide: NADH preservation in cells and in cell-free systems by melatonin. <i>Journal of Pineal Research</i> , 2005, 39, 185-194.	7.4	50
341	Melatonin attenuates (E)epigallocatechin gallate-triggered hepatotoxicity without compromising its downregulation of hepatic gluconeogenic and lipogenic genes in mice. <i>Journal of Pineal Research</i> , 2015, 59, 497-507.	7.4	50
342	N-Acetylserotonin and 6-Hydroxymelatonin against Oxidative Stress: Implications for the Overall Protection Exerted by Melatonin. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8535-8543.	2.6	50

#	ARTICLE	IF	CITATIONS
343	Melatonin Reduces Angiogenesis in Serous Papillary Ovarian Carcinoma of Ethanol-Preferring Rats. <i>International Journal of Molecular Sciences</i> , 2017, 18, 763.	4.1	50
344	Promising Antineoplastic Actions of Melatonin. <i>Frontiers in Pharmacology</i> , 2018, 9, 1086.	3.5	50
345	Melatonin Promotes Uterine and Placental Health: Potential Molecular Mechanisms. <i>International Journal of Molecular Sciences</i> , 2020, 21, 300.	4.1	50
346	Protective Role of Melatonin and Its Metabolites in Skin Aging. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1238.	4.1	50
347	Physiological concentrations of melatonin inhibit the norepinephrine-induced activation of prostaglandin E ₂ and cyclic AMP production in rat hypothalamus: A mechanism involving inhibition of nitric oxide synthase. <i>Journal of Pineal Research</i> , 1998, 25, 34-40.	7.4	49
348	Cyclic 3-hydroxymelatonin, a key metabolite enhancing the peroxyl radical scavenging activity of melatonin. <i>RSC Advances</i> , 2014, 4, 5220.	3.6	49
349	Daily and seasonal mitochondrial protection: Unraveling common possible mechanisms involving vitamin D and melatonin. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2020, 199, 105595.	2.5	49
350	Swimming Depresses Nighttime Melatonin Content without Changing N-Acetyltransferase Activity in the Rat Pineal Gland. <i>Neuroendocrinology</i> , 1988, 47, 55-60.	2.5	48
351	Aging and oxygen toxicity: Relation to changes in melatonin. <i>Age</i> , 1997, 20, 201-213.	3.0	48
352	Revisiting chronodisruption: when the physiological nexus between internal and external times splits in humans. <i>Die Naturwissenschaften</i> , 2013, 100, 291-298.	1.6	48
353	Melatonin treatment improves primary progressive multiple sclerosis: a case report. <i>Journal of Pineal Research</i> , 2015, 58, 173-177.	7.4	48
354	The absence of maternal pineal melatonin rhythm during pregnancy and lactation impairs offspring physical growth, neurodevelopment, and behavior. <i>Hormones and Behavior</i> , 2018, 105, 146-156.	2.1	48
355	Elderly as a High-risk Group during COVID-19 Pandemic: Effect of Circadian Misalignment, Sleep Dysregulation and Melatonin Administration. <i>Sleep and Vigilance</i> , 2020, 4, 81-87.	0.8	48
356	Melatonin inhibits lung cancer development by reversing the Warburg effect via stimulating the SIRT3/PDH axis. <i>Journal of Pineal Research</i> , 2021, 71, e12755.	7.4	48
357	Evidence of melatonin ameliorative effects on the blood-testis barrier and sperm quality alterations induced by cadmium in the rat testis. <i>Ecotoxicology and Environmental Safety</i> , 2021, 226, 112878.	6.0	48
358	Melatonin and the von Hippel-Lindau/HIF-1 oxygen sensing mechanism: A review. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2016, 1865, 176-183.	7.4	47
359	Melatonin as an endogenous regulator of diseases: The role of autophagy. <i>Pharmacological Research</i> , 2018, 133, 265-276.	7.1	47
360	Cardioprotective Role of Melatonin in Acute Myocardial Infarction. <i>Frontiers in Physiology</i> , 2020, 11, 366.	2.8	47

#	ARTICLE	IF	CITATIONS
361	Age-related changes in the intact and sympathetically denervated gerbil pineal gland. <i>American Journal of Anatomy</i> , 1976, 146, 427-432.	1.0	46
362	Melatonin attenuates osteosarcoma cell invasion by suppression of CCR motif chemokine ligand 24 through inhibition of the c-Jun N-terminal kinase pathway. <i>Journal of Pineal Research</i> , 2018, 65, e12507.	7.4	46
363	The emergence of melatonin in oncology: Focus on colorectal cancer. <i>Medicinal Research Reviews</i> , 2019, 39, 2239-2285.	10.5	46
364	Mitochondrial dysfunction in age-related macular degeneration: melatonin as a potential treatment. <i>Expert Opinion on Therapeutic Targets</i> , 2020, 24, 359-378.	3.4	46
365	ROLE OF MELATONIN IN REDUCTION OF LIPID PEROXIDATION AND PEROXYNITRITE FORMATION IN NON-SEPTIC SHOCK INDUCED BY ZYMOSAN. <i>Shock</i> , 1999, 12, 402-408.	2.1	45
366	Melatonin reduces the oxidation of nuclear DNA and membrane lipids induced by the carcinogen γ -aminolevulinic acid. <i>International Journal of Cancer</i> , 2000, 88, 7-11.	5.1	45
367	Melatonin enhances hyperthermia-induced apoptotic cell death in human leukemia cells. <i>Journal of Pineal Research</i> , 2016, 61, 381-395.	7.4	45
368	A Single 1- or 5-Second Light Pulse at Night Inhibits Hamster Pineal Melatonin*. <i>Endocrinology</i> , 1986, 118, 1906-1909.	2.8	44
369	In vivo and in vitro effects of the pineal gland and melatonin on $[Ca^{2+} + Mg^{2+}]$ -dependent ATPase in cardiac sarcolemma. <i>Journal of Pineal Research</i> , 1993, 14, 178-183.	7.4	44
370	Melatonin and its derivatives cyclic 3-hydroxymelatonin, N 1 -acetyl-N 2 -formyl-5-methoxykynuramine and 6-methoxymelatonin reduce oxidative DNA damage induced by Fenton reagents. <i>Journal of Pineal Research</i> , 2003, 34, 178-184.	7.4	44
371	Melatonin in Retinal Physiology and Pathology: The Case of Age-Related Macular Degeneration. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-12.	4.0	44
372	Utilizing melatonin to combat bacterial infections and septic injury. <i>British Journal of Pharmacology</i> , 2017, 174, 754-768.	5.4	44
373	Melatonin biosynthesis enzymes recruit WRKY transcription factors to regulate melatonin accumulation and transcriptional activity on W-box in cassava. <i>Journal of Pineal Research</i> , 2018, 65, e12487.	7.4	44
374	The role of MicroRNAs on endoplasmic reticulum stress in myocardial ischemia and cardiac hypertrophy. <i>Pharmacological Research</i> , 2019, 150, 104516.	7.1	44
375	Melatonin and Parkinson Disease: Current Status and Future Perspectives for Molecular Mechanisms. <i>Cellular and Molecular Neurobiology</i> , 2020, 40, 15-23.	3.3	44
376	Clinical Trials for Use of Melatonin to Fight against COVID-19 Are Urgently Needed. <i>Nutrients</i> , 2020, 12, 2561.	4.1	44
377	Cardiac hypertrophy and remodelling: pathophysiological consequences and protective effects of melatonin. <i>Journal of Hypertension</i> , 2010, 28, S7-S12.	0.5	43
378	Phenolic Melatonin-Related Compounds: Their Role as Chemical Protectors against Oxidative Stress. <i>Molecules</i> , 2016, 21, 1442.	3.8	43

#	ARTICLE	IF	CITATIONS
379	Melatonin supplementation and the effects on clinical and metabolic status in Parkinson's disease: A randomized, double-blind, placebo-controlled trial. <i>Clinical Neurology and Neurosurgery</i> , 2020, 195, 105878.	1.4	43
380	Effects of miR-34b/miR-892a Upregulation and Inhibition of ABCB1/ABCB4 on Melatonin-Induced Apoptosis in VCR-Resistant Oral Cancer Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 19, 877-889.	5.1	43
381	N-acetylserotonin suppresses hepatic microsomal membrane rigidity associated with lipid peroxidation. <i>European Journal of Pharmacology</i> , 2001, 428, 169-175.	3.5	42
382	Melatonin and Its Metabolites Ameliorate UVR-Induced Mitochondrial Oxidative Stress in Human MNT-1 Melanoma Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3786.	4.1	42
383	The role of melatonin in targeting cell signaling pathways in neurodegeneration. <i>Annals of the New York Academy of Sciences</i> , 2019, 1443, 75-96.	3.8	42
384	Clinical aspects of melatonin. <i>Journal of King Abdulaziz University, Islamic Economics</i> , 2008, 29, 1537-47.	1.1	42
385	Characterization of Pinealectomy Induced Convulsions in the Mongolian Gerbil <i><i>(Meriones) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T</i>	5.1	41
386	Reactive Oxygen Species and the Hypomotility of the Gall Bladder as Targets for the Treatment of Gallstones with Melatonin: A Review. <i>Digestive Diseases and Sciences</i> , 2008, 53, 2592-2603.	2.3	41
387	Oxidative Stress-Mediated Damage in Newborns with Necrotizing Enterocolitis: A Possible Role of Melatonin. <i>American Journal of Perinatology</i> , 2015, 32, 905-909.	1.4	41
388	Mitochondrial functions and melatonin: a tour of the reproductive cancers. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 837-863.	5.4	41
389	Melatonin inhibits Benzo(a)pyrene-Induced apoptosis through activation of the Mir-34a/Sirt1/autophagy pathway in mouse liver. <i>Ecotoxicology and Environmental Safety</i> , 2020, 196, 110556.	6.0	41
390	Ultrastructural observations of pineal gland capillaries in four rodent species. <i>American Journal of Anatomy</i> , 1975, 143, 265-281.	1.0	40
391	Tissue Changes in Glutathione Metabolism and Lipid Peroxidation Induced by Swimming are Partially Prevented by Melatonin. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1996, 78, 308-312.	0.0	40
392	Pharmacological aspects of N-acetyl-5-methoxytryptamine (melatonin) and 6-methoxy-1,2,3,4-tetrahydro- β -carboline (pinoline) as antioxidants: Reduction of oxidative damage in brain region homogenates. <i>Journal of Pineal Research</i> , 1999, 26, 236-246.	7.4	40
393	Role of CSF in the transport of melatonin. <i>Journal of Pineal Research</i> , 2002, 33, 61-61.	7.4	40
394	Inhibition of ERK1/2 Signaling Pathway is Involved in Melatonin's Antiproliferative Effect on Human MG-63 Osteosarcoma Cells. <i>Cellular Physiology and Biochemistry</i> , 2016, 39, 2297-2307.	1.6	40
395	Melatonin Protects Cultured Tobacco Cells against Lead-Induced Cell Death via Inhibition of Cytochrome c Translocation. <i>Frontiers in Plant Science</i> , 2017, 8, 1560.	3.6	40
396	Antioxidant and Pro-Oxidant Activities of Melatonin in the Presence of Copper and Polyphenols In Vitro and In Vivo. <i>Cells</i> , 2019, 8, 903.	4.1	40

#	ARTICLE	IF	CITATIONS
397	Melatonin suppresses lung cancer metastasis by inhibition of epithelial to mesenchymal transition through targeting to Twist. <i>Clinical Science</i> , 2019, 133, 709-722.	4.3	40
398	Diurnal rhythms of immunoreactive melatonin in the aqueous humor and serum of male pigmented rabbits. <i>Neuroscience Letters</i> , 1990, 116, 309-314.	2.1	39
399	Respiratory distress syndrome in the newborn: role of oxidative stress. <i>Intensive Care Medicine</i> , 2001, 27, 1116-1123.	8.2	39
400	Melatonin therapy in fibromyalgia. <i>Current Pain and Headache Reports</i> , 2007, 11, 339-342.	2.9	39
401	A Walnut-Enriched Diet Reduces the Growth of LNCaP Human Prostate Cancer Xenografts in Nude Mice. <i>Cancer Investigation</i> , 2013, 31, 365-373.	1.3	39
402	The therapeutic role of long non-coding RNAs in human diseases: A focus on the recent insights into autophagy. <i>Pharmacological Research</i> , 2019, 142, 22-29.	7.1	39
403	Pharmacological Studies on the Regulation of N-Acetyltransferase Activity and Melatonin Content of the Pineal Gland of the Syrian Hamster. <i>Journal of Pineal Research</i> , 1985, 2, 109-119.	7.4	38
404	Bromocriptine prevents the castration-induced rise in porphyrin concentration in the harderian glands of the male syrian hamster, <i>Mesocricetus auratus</i> . <i>The Journal of Experimental Zoology</i> , 1989, 249, 172-176.	1.4	38
405	Melatonin: does it have utility in the treatment of haematological neoplasms?. <i>British Journal of Pharmacology</i> , 2018, 175, 3251-3262.	5.4	38
406	The effects of melatonin supplementation on mental health, metabolic and genetic profiles in patients under methadone maintenance treatment. <i>Addiction Biology</i> , 2019, 24, 754-764.	2.6	38
407	Molecular and Cellular Mechanisms of Melatonin in Osteosarcoma. <i>Cells</i> , 2019, 8, 1618.	4.1	38
408	The Effect of Resveratrol on Neurodegenerative Disorders: Possible Protective Actions Against Autophagy, Apoptosis, Inflammation and Oxidative Stress. <i>Current Pharmaceutical Design</i> , 2019, 25, 2178-2191.	1.9	38
409	Mitochondria: the birth place, battle ground and the site of melatonin metabolism in cells. <i>Melatonin Research</i> , 2019, 2, 44-66.	1.1	38
410	A generalized theory of carcinogenesis due to chronodisruption. <i>Neuroendocrinology Letters</i> , 2008, 29, 815-21.	0.2	38
411	Rapid-onset/offset, variably scheduled 60 Hz electric and magnetic field exposure reduces nocturnal serum melatonin concentration in nonhuman primates. <i>Bioelectromagnetics</i> , 1995, 16, 119-122.	1.6	37
412	Functional Interaction between Melatonin Signaling and Noncoding RNAs. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 435-445.	7.1	37
413	Melatonin and its metabolites as chemical agents capable of directly repairing oxidized DNA. <i>Journal of Pineal Research</i> , 2019, 66, e12539.	7.4	37
414	Melatonin: A Potential Agent in Delaying Leaf Senescence. <i>Critical Reviews in Plant Sciences</i> , 2021, 40, 1-22.	5.7	37

#	ARTICLE	IF	CITATIONS
415	Anti-Warburg Effect of Melatonin: A Proposed Mechanism to Explain its Inhibition of Multiple Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 764.	4.1	37
416	Shift Work and Cancer. <i>Deutsches A&#x0308;rzteblatt International</i> , 2010, 107, 657-62.	0.9	37
417	Some Perturbations That Disturb the Circadian Melatonin Rhythm. <i>Chronobiology International</i> , 1992, 9, 314-321.	2.0	36
418	Red-light-induced suppression of melatonin synthesis is mediated by N-methyl-D-aspartate receptor activation in retinally normal and retinally degenerate rats. <i>Journal of Neurobiology</i> , 1995, 28, 1-8.	3.6	36
419	Inconsistent suppression of nocturnal pineal melatonin synthesis and serum melatonin levels in rats exposed to pulsed DC magnetic fields. <i>Bioelectromagnetics</i> , 1998, 19, 318-329.	1.6	36
420	Constitutive photomorphogenesis protein 1 (<sc>COP</sc>1) and <sc>COP</sc>9 signalosome, evolutionarily conserved photomorphogenic proteins as possible targets of melatonin. <i>Journal of Pineal Research</i> , 2016, 61, 41-51.	7.4	36
421	Melatonin prevents cadmium–induced bone damage: First evidence on an improved osteogenic/adipogenic differentiation balance of mesenchymal stem cells as underlying mechanism. <i>Journal of Pineal Research</i> , 2019, 67, e12597.	7.4	36
422	Melatonin and pancreatic cancer: Current knowledge and future perspectives. <i>Journal of Cellular Physiology</i> , 2019, 234, 5372-5378.	4.1	36
423	Potential use of melatonin in skin cancer treatment: A review of current biological evidence. <i>Journal of Cellular Physiology</i> , 2019, 234, 12142-12148.	4.1	36
424	The Effects of Melatonin Supplementation on Parameters of Mental Health, Glycemic Control, Markers of Cardiometabolic Risk, and Oxidative Stress in Diabetic Hemodialysis Patients: A Randomized, Double-Blind, Placebo-Controlled Trial. , 2020, 30, 242-250.		36
425	Pineal Serotonin N-Acetyltransferase Activity and Melatonin Concentrations in Prepubertal and Adult Syrian Hamsters Exposed to Short Daily Photoperiods. <i>Endocrine Research Communications</i> , 1978, 5, 311-324.	0.5	35
426	Inverse correlation between “Synaptic–ribbon number and the density of adrenergic nerve endings in the pineal gland of various mammals. <i>The Anatomical Record</i> , 1983, 205, 93-99.	1.8	35
427	Increase in motility and invasiveness of <sc>MCF</sc>7 cancer cells induced by nicotine is abolished by melatonin through inhibition of <sc>ERK</sc> phosphorylation. <i>Journal of Pineal Research</i> , 2018, 64, e12467.	7.4	35
428	The effects of melatonin supplementation on inflammatory markers among patients with metabolic syndrome or related disorders: a systematic review and meta-analysis of randomized controlled trials. <i>Inflammopharmacology</i> , 2018, 26, 899-907.	3.9	35
429	Melatonin exerts oncostatic capacity and decreases melanogenesis in human MNT–1 melanoma cells. <i>Journal of Pineal Research</i> , 2019, 67, e12610.	7.4	35
430	Melatonin and non-small cell lung cancer: new insights into signaling pathways. <i>Cancer Cell International</i> , 2019, 19, 131.	4.1	35
431	Use of Melatonin in Oxidative Stress Related Neonatal Diseases. <i>Antioxidants</i> , 2020, 9, 477.	5.1	35
432	Melatonin and Carbohydrate Metabolism in Plant Cells. <i>Plants</i> , 2021, 10, 1917.	3.5	35

#	ARTICLE	IF	CITATIONS
433	RNA expression of human telomerase subunits TR and TERT is differentially affected by melatonin receptor agonists in the MCF-7 tumor cell line. <i>Cancer Letters</i> , 2004, 216, 73-80.	7.2	34
434	Characterization of serotonin and 5-HT _{2A} acetylserotonin systems in the human epidermis and skin cells. <i>Journal of Pineal Research</i> , 2020, 68, e12626.	7.4	34
435	Interactions of melatonin, reactive oxygen species, and nitric oxide during fruit ripening: an update and prospective view. <i>Journal of Experimental Botany</i> , 2022, 73, 5947-5960.	4.8	34
436	Melatonin delivery in solid lipid nanoparticles: prevention of cyclosporine A induced cardiac damage. <i>Journal of Pineal Research</i> , 2009, 46, 255-261.	7.4	33
437	Melatonin or 5-HT _{2A} accelerates healing of gastroduodenal ulcers in patients treated with omeprazole. <i>Journal of Pineal Research</i> , 2011, 50, 389-394.	7.4	33
438	Breast cancer cells: Modulation by melatonin and the ubiquitin-proteasome system – A review. <i>Molecular and Cellular Endocrinology</i> , 2015, 417, 1-9.	3.2	33
439	Melatonin's role in preventing toxin-related and sepsis-mediated hepatic damage: A review. <i>Pharmacological Research</i> , 2016, 105, 108-120.	7.1	33
440	The Effects of Melatonin Supplementation on Glycemic Control: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. <i>Hormone and Metabolic Research</i> , 2018, 50, 783-790.	1.5	33
441	Melatonin is a potential inhibitor of ovarian cancer: molecular aspects. <i>Journal of Ovarian Research</i> , 2019, 12, 26.	3.0	33
442	Melatonin: A Potential Therapeutic Option for Breast Cancer. <i>Trends in Endocrinology and Metabolism</i> , 2020, 31, 859-871.	7.1	33
443	SARS-CoV-2 and other coronaviruses negatively influence mitochondrial quality control: beneficial effects of melatonin. , 2021, 224, 107825.		33
444	Melatonin as a potential inhibitory agent in head and neck cancer. <i>Oncotarget</i> , 2017, 8, 90545-90556.	1.8	33
445	Gut Microbiota Dysbiosis Induced by Decreasing Endogenous Melatonin Mediates the Pathogenesis of Alzheimer's Disease and Obesity. <i>Frontiers in Immunology</i> , 2022, 13, .	4.8	33
446	Fine structural features of adrenergic nerve fibers and endings in the pineal gland of the rat, ground squirrel and chinchilla. <i>American Journal of Anatomy</i> , 1977, 148, 463-477.	1.0	32
447	Melatonin and ubiquitin: what's the connection?. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 3409-3418.	5.4	32
448	The potential usefulness of serum melatonin level to predict heart failure in patients with hypertensive cardiomyopathy. <i>International Journal of Cardiology</i> , 2014, 174, 415-417.	1.7	32
449	Melatonin versus midazolam premedication in children undergoing surgery: A pilot study. <i>Journal of Paediatrics and Child Health</i> , 2016, 52, 291-295.	0.8	32
450	A meta-analysis of microRNA networks regulated by melatonin in cancer: Portrait of potential candidates for breast cancer treatment. <i>Journal of Pineal Research</i> , 2020, 69, e12693.	7.4	32

#	ARTICLE	IF	CITATIONS
451	Sirtuins and the circadian clock interplay in cardioprotection: focus on sirtuin 1. Cellular and Molecular Life Sciences, 2021, 78, 2503-2515.	5.4	32
452	Melatonin: A mitochondrial resident with a diverse skill set. Life Sciences, 2022, 301, 120612.	4.3	32
453	Melatonin Attenuates Estradiol-Induced Oxidative Damage to DNA: Relevance for Cancer Prevention. Experimental Biology and Medicine, 2001, 226, 707-712.	2.4	31
454	A Simple, Rapid Method for Determination of Melatonin in Plant Tissues by UPLC Coupled with High Resolution Orbitrap Mass Spectrometry. Frontiers in Plant Science, 2017, 8, 64.	3.6	31
455	The effects of melatonin administration on disease severity and sleep quality in children with atopic dermatitis: A randomized, double-blind, placebo-controlled trial. Pediatric Allergy and Immunology, 2018, 29, 834-840.	2.6	31
456	Melatonin promotes metabolism of bisphenol A by enhancing glutathione-dependent detoxification in Solanum lycopersicum L. Journal of Hazardous Materials, 2020, 388, 121727.	12.4	31
457	PORPHYRIN LEVELS IN THE HARDERIAN GLANDS OF FEMALE AND MALE SYRIAN HAMSTERS: EARLY CHANGES FOLLOWING EITHER GONADECTOMY OR LIGHT DEPRIVATION AND LACK OF A CIRCADIAN RHYTHM . Biomedical Research, 1989, 10, 1-8.	0.9	31
458	Phytomelatonin as a central molecule in plant disease resistance. Journal of Experimental Botany, 2022, 73, 5874-5885.	4.8	31
459	Melatonin Pharmacological Blood Levels Increase Total Antioxidant Capacity in Critically Ill Patients. International Journal of Molecular Sciences, 2017, 18, 759.	4.1	30
460	Identification of a novel melatonin-binding nuclear receptor: Vitamin D receptor. Journal of Pineal Research, 2020, 68, e12618.	7.4	30
461	Melatonin Improves Mitochondrial Dynamics and Function in the Kidney of Zucker Diabetic Fatty Rats. Journal of Clinical Medicine, 2020, 9, 2916.	2.4	30
462	Utilizing Melatonin to Alleviate Side Effects of Chemotherapy: A Potentially Good Partner for Treating Cancer with Ageing. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-20.	4.0	29
463	Melatonin and other indoles show antiviral activities against swine coronaviruses in vitro at pharmacological concentrations. Journal of Pineal Research, 2021, 71, e12754.	7.4	29
464	Melatonin in the Biliary Tract and Liver: Health Implications. Current Pharmaceutical Design, 2014, 20, 4788-4801.	1.9	29
465	A Computer-Assisted Systematic Search for Melatonin Derivatives with High Potential as Antioxidants. Melatonin Research, 2018, 1, 27-58.	1.1	29
466	The dual roles of melatonin biosynthesis enzymes in the coordination of melatonin biosynthesis and autophagy in cassava. Journal of Pineal Research, 2020, 69, e12652.	7.4	28
467	Plant-derived melatonin from food: a gift of nature. Food and Function, 2021, 12, 2829-2849.	4.6	28
468	Melatonin: highlighting its use as a potential treatment for SARS-CoV-2 infection. Cellular and Molecular Life Sciences, 2022, 79, 143.	5.4	28

#	ARTICLE	IF	CITATIONS
469	The potential use of melatonin to treat protozoan parasitic infections: A review. <i>Biomedicine and Pharmacotherapy</i> , 2018, 97, 948-957.	5.6	27
470	Melatonin synthesis enzymes interact with ascorbate peroxidase to protect against oxidative stress in cassava. <i>Journal of Experimental Botany</i> , 2020, 71, 5645-5655.	4.8	27
471	Melatonin and morphine: potential beneficial effects of co-use. <i>Fundamental and Clinical Pharmacology</i> , 2021, 35, 25-39.	1.9	27
472	Switching diseased cells from cytosolic aerobic glycolysis to mitochondrial oxidative phosphorylation: A metabolic rhythm regulated by melatonin?. <i>Journal of Pineal Research</i> , 2021, 70, e12677.	7.4	27
473	Melatonin as an Antitumor Agent against Liver Cancer: An Updated Systematic Review. <i>Antioxidants</i> , 2021, 10, 103.	5.1	27
474	Pan-cancer analyses reveal genomics and clinical characteristics of the melatonergic regulators in cancer. <i>Journal of Pineal Research</i> , 2021, 71, e12758.	7.4	27
475	Pituitary and Plasma LH and Prolactin Levels in Female Rats Rendered Blind and Anosmic: Influence of the Pineal Gland. <i>Biology of Reproduction</i> , 1975, 12, 329-334.	2.7	26
476	Age-Associated Changes in Pineal Serotonin N-Acetyltransferase Activity and Melatonin Content in the Male Gerbil. <i>Endocrine Research Communications</i> , 1981, 8, 253-262.	0.5	26
477	Reduced pineal and plasma melatonin levels and gonadal atrophy in old hamsters kept under winter photoperiods. <i>Experimental Aging Research</i> , 1982, 8, 27-30.	1.2	26
478	Morphofunctional aspects of the mammalian pineal gland. <i>Microscopy Research and Technique</i> , 1992, 21, 136-157.	2.2	26
479	N 1-Acetyl-5-Methoxykynuramine (AMK) Is Produced in the Human Epidermis and Shows Antiproliferative Effects. <i>Endocrinology</i> , 2015, 156, 1630-1636.	2.8	26
480	Pan-cancer genomic analyses reveal prognostic and immunogenic features of the tumor melatonergic microenvironment across 14 solid cancer types. <i>Journal of Pineal Research</i> , 2019, 66, e12557.	7.4	26
481	First evidence of the protective role of melatonin in counteracting cadmium toxicity in the rat ovary via the mTOR pathway. <i>Environmental Pollution</i> , 2021, 270, 116056.	7.5	26
482	Altered Expression of DAAM1 and PREP Induced by Cadmium Toxicity Is Counteracted by Melatonin in the Rat Testis. <i>Genes</i> , 2021, 12, 1016.	2.4	26
483	Day-night differences in the number of pineal 'synaptic' ribbons in two diurnal rodents, the chipmunk (<i>Tamias striatus</i>) and the ground squirrel (<i>Spermophilus richardsonii</i>). <i>Cell and Tissue Research</i> , 1982, 224, 689-92.	2.9	25
484	Effects of Photoperiod or Exogenous Melatonin Administration on the Activity of N-Acetyltransferase and Hydroxyindole-O-Methyltransferase and the Melatonin Content of the Harderian Gland of Two Strains of Female Syrian Hamsters. <i>Journal of Pineal Research</i> , 1988, 5, 293-300.	7.4	25
485	Coronavirus Disease 2019 (COVID-19) and Its Neuroinvasive Capacity: Is It Time for Melatonin?. <i>Cellular and Molecular Neurobiology</i> , 2022, 42, 489-500.	3.3	25
486	Melatonin Ameliorates Inflammation and Oxidative Stress by Suppressing the p38MAPK Signaling Pathway in LPS-Induced Sheep Orchitis. <i>Antioxidants</i> , 2020, 9, 1277.	5.1	25

#	ARTICLE	IF	CITATIONS
487	The dual interplay of RAV5 in activating nitrate reductases and repressing catalase activity to improve disease resistance in cassava. <i>Plant Biotechnology Journal</i> , 2021, 19, 785-800.	8.3	25
488	Melatonin synthesis genes <i>N-acetylserotonin methyltransferases</i> evolved into caffeic acid <i>O-methyltransferases</i> and both assisted in plant terrestrialization. <i>Journal of Pineal Research</i> , 2021, 71, e12737.	7.4	25
489	Plasticity of glucose metabolism in activated immune cells: advantages for melatonin inhibition of COVID-19 disease. <i>Melatonin Research</i> , 2020, 3, 362-379.	1.1	25
490	Melatonin reduces oxidative/nitrosative stress due to drugs, toxins, metals, and herbicides. <i>Neuroendocrinology Letters</i> , 2008, 29, 609-13.	0.2	25
491	Inhibition of Pineal Type-II 5'-Deiodinase Does Not Affect the Nocturnal Increase of N-Acetyltransferase Activity and Melatonin Content in Either Euthyroid or Thyroidectomized Rats. <i>Journal of Pineal Research</i> , 1988, 5, 513-520.	7.4	24
492	Regulation of cancer cell glucose metabolism is determinant for cancer cell fate after melatonin administration. <i>Journal of Cellular Physiology</i> , 2021, 236, 27-40.	4.1	24
493	Melatonin enhances radiofrequency-induced NK antitumor immunity, causing cancer metabolism reprogramming and inhibition of multiple pulmonary tumor development. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 330.	17.1	24
494	Melatonin actions in the heart; more than a hormone. <i>Melatonin Research</i> , 2018, 1, 21-26.	1.1	24
495	Melatonin and Pathological Cell Interactions: Mitochondrial Glucose Processing in Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12494.	4.1	24
496	Immune-pineal axis protects rat lungs exposed to polluted air. <i>Journal of Pineal Research</i> , 2020, 68, e12636.	7.4	23
497	Melatonin synthesis in and uptake by mitochondria: implications for diseased cells with dysfunctional mitochondria. <i>Future Medicinal Chemistry</i> , 2021, 13, 335-339.	2.3	23
498	Exosomes and Melatonin: Where Their Destinies Intersect. <i>Frontiers in Immunology</i> , 2021, 12, 692022.	4.8	23
499	An Examination of the Putative Role of Melatonin in Exosome Biogenesis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 686551.	3.7	23
500	Unusual responses of nocturnal pineal melatonin synthesis and secretion to swimming: Attempts to define mechanisms. <i>Journal of Pineal Research</i> , 1993, 14, 98-103.	7.4	22
501	Hypocotyl Elongation Inhibition of Melatonin Is Involved in Repressing Brassinosteroid Biosynthesis in Arabidopsis. <i>Frontiers in Plant Science</i> , 2019, 10, 1082.	3.6	22
502	Melatonin, a toll-like receptor inhibitor: Current status and future perspectives. <i>Journal of Cellular Physiology</i> , 2019, 234, 7788-7795.	4.1	22
503	New insights into antimetastatic signaling pathways of melatonin in skeletomuscular sarcoma of childhood and adolescence. <i>Cancer and Metastasis Reviews</i> , 2020, 39, 303-320.	5.9	22
504	Maternal pineal melatonin in gestation and lactation physiology, and in fetal development and programming. <i>General and Comparative Endocrinology</i> , 2021, 300, 113633.	1.8	22

#	ARTICLE	IF	CITATIONS
505	Role of Melatonin on Virus-Induced Neuropathogenesisâ€”A Concomitant Therapeutic Strategy to Understand SARS-CoV-2 Infection. <i>Antioxidants</i> , 2021, 10, 47.	5.1	22
506	Melatonin-Loaded Nanocarriers: New Horizons for Therapeutic Applications. <i>Molecules</i> , 2021, 26, 3562.	3.8	22
507	Melatonin: Regulation of Biomolecular Condensates in Neurodegenerative Disorders. <i>Antioxidants</i> , 2021, 10, 1483.	5.1	22
508	Melatonin: a universal time messenger. <i>Neuroendocrinology Letters</i> , 2015, 36, 187-92.	0.2	22
509	Adrenalectomy Prevents Changes in Rat Pineal Melatonin Content N-Acetyltransferase Activity Induced by Acute Insulin Stress. <i>Journal of Pineal Research</i> , 1987, 4, 395-402.	7.4	21
510	Role of Postsynaptic α -Adrenergic Receptors in the α -Adrenergic Stimulation of Melatonin Production in the Syrian Hamster Pineal Gland in Organ Culture. <i>Journal of Pineal Research</i> , 1989, 7, 13-22.	7.4	21
511	Androgenic control of N-acetyltransferase activity in the hardierian glands of the syrian hamster is mediated by 5 α -dihydrotestosterone. <i>Journal of Cellular Biochemistry</i> , 1990, 42, 95-100.	2.6	21
512	Radical-trapping and preventive antioxidant effects of 2-hydroxymelatonin and 4-hydroxymelatonin: Contributions to the melatonin protection against oxidative stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2206-2217.	2.4	21
513	Melanopsin System Dysfunction in Smith-Magenis Syndrome Patients. , 2018, 59, 362.		21
514	Melatonin and (âˆ™)-Epigallocatechin-3-Gallate: Partners in Fighting Cancer. <i>Cells</i> , 2019, 8, 745.	4.1	21
515	Therapeutic targets of cancer drugs: Modulation by melatonin. <i>Life Sciences</i> , 2021, 267, 118934.	4.3	21
516	Molecular Aspects of Melatonin Treatment in Tinnitus: A Review. <i>Current Drug Targets</i> , 2019, 20, 1112-1128.	2.1	21
517	Historical Perspective and Evaluation of the Mechanisms by which Melatonin Mediates Seasonal Reproduction in Mammals. <i>Melatonin Research</i> , 2018, 1, 59-77.	1.1	21
518	Melatonin Reverses the Warburg-Type Metabolism and Reduces Mitochondrial Membrane Potential of Ovarian Cancer Cells Independent of MT1 Receptor Activation. <i>Molecules</i> , 2022, 27, 4350.	3.8	21
519	Melatonin Concentration in the Cerebral Vascular Sinuses of Sheep and Evidence for Its Episodic Release. <i>Journal of Pineal Research</i> , 1988, 5, 535-543.	7.4	20
520	Harderian Gland N-Acetyltransferase Activity in the Male Syrian Hamster: Effects of Gonadectomy, Short Photoperiod Exposure, or Subcutaneous Melatonin Implants. <i>Endocrine Research</i> , 1988, 14, 121-130.	1.2	20
521	Melatonin, a calpain inhibitor in the central nervous system: Current status and future perspectives. <i>Journal of Cellular Physiology</i> , 2019, 234, 1001-1007.	4.1	20
522	Obesity-associated alterations in cardiac connexin-43 and PKC signaling are attenuated by melatonin and omega-3 fatty acids in female rats. <i>Molecular and Cellular Biochemistry</i> , 2019, 454, 191-202.	3.1	20

#	ARTICLE	IF	CITATIONS
523	Melatonin as a putative protection against myocardial injury in COVID-19 infection. <i>Expert Review of Clinical Pharmacology</i> , 2020, 13, 921-924.	3.1	20
524	Clock genes and the role of melatonin in cancer cells: an overview. <i>Melatonin Research</i> , 2019, 2, 133-157.	1.1	20
525	Melatonin-based therapeutics for atherosclerotic lesions and beyond: Focusing on macrophage mitophagy. <i>Pharmacological Research</i> , 2022, 176, 106072.	7.1	20
526	Melatonin as an Anti-Aging Therapy for Age-Related Cardiovascular and Neurodegenerative Diseases. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	3.4	20
527	New insights into the role of melatonin in photosynthesis. <i>Journal of Experimental Botany</i> , 2022, 73, 5918-5927.	4.8	20
528	A Study of Indoles Which Inhibit Pineal Antigonadotrophic Activity in Male Hamsters. <i>Endocrine Research Communications</i> , 1975, 2, 299-308.	0.5	19
529	Effect of melatonin on cell growth, metabolic activity, and cell cycle distribution. <i>Journal of Pineal Research</i> , 2001, 31, 228-233.	7.4	19
530	Melatonin prevents delta-aminolevulinic acid-induced oxidative DNA damage in the presence of Fe ²⁺ . <i>Molecular and Cellular Biochemistry</i> , 2001, 218, 87-92.	3.1	19
531	Melatonin Induces Melanogenesis in Human SK-MEL-1 Melanoma Cells Involving Glycogen Synthase Kinase-3 and Reactive Oxygen Species. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4970.	4.1	19
532	New proposal involving nanoformulated melatonin targeted to the mitochondria as a potential COVID-19 treatment. <i>Nanomedicine</i> , 2020, 15, 2819-2821.	3.3	19
533	Mitochondrial function is controlled by melatonin and its metabolites in vitro in human melanoma cells. <i>Journal of Pineal Research</i> , 2021, 70, e12728.	7.4	19
534	Potential Effects of Melatonin and Micronutrients on Mitochondrial Dysfunction during a Cytokine Storm Typical of Oxidative/Inflammatory Diseases. <i>Diseases (Basel, Switzerland)</i> , 2021, 9, 30.	2.5	19
535	Regulation of Melatonin in the Harderian Glands of Golden Hamsters. <i>Journal of Pineal Research</i> , 1989, 6, 63-71.	7.4	18
536	Twenty-four hour urinary excretion of 6-hydroxymelatonin sulfate in Down syndrome subjects. <i>Journal of Pineal Research</i> , 1996, 20, 45-50.	7.4	18
537	Melatonin, vitamin E, and estrogen reduce damage induced by kainic acid in the hippocampus: potassium-stimulated GABA release. <i>Journal of Pineal Research</i> , 2001, 31, 62-67.	7.4	18
538	Pharmacokinetics of Melatonin: The Missing Link in Clinical Efficacy?. <i>Clinical Pharmacokinetics</i> , 2016, 55, 1027-1030.	3.5	18
539	The key role of the sequential proton loss electron transfer mechanism on the free radical scavenging activity of some melatonin-related compounds. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	18
540	Zinc finger of <i>Arabidopsis thaliana</i> 6 is involved in melatonin-mediated auxin signaling through interacting INDETERMINATE DOMAIN15 and INDOLE-3-ACETIC ACID. <i>Journal of Pineal Research</i> , 2018, 65, e12494.	17.74	18

#	ARTICLE	IF	CITATIONS
541	Stimuli-Responsive Nanocapsules for the Spatiotemporal Release of Melatonin: Protection against Gastric Inflammation. <i>ACS Applied Bio Materials</i> , 2019, 2, 5218-5226.	4.6	18
542	Melatonin in ventricular and subarachnoid cerebrospinal fluid: Its function in the neural glymphatic network and biological significance for neurocognitive health. <i>Biochemical and Biophysical Research Communications</i> , 2022, 605, 70-81.	2.1	18
543	The pineal melatonin rhythm and its regulation by light in a subterranean rodent, the valley pocket gopher (<i>Thomomys bottae</i>). <i>Journal of Pineal Research</i> , 1994, 16, 145-153.	7.4	17
544	Mechanism of melatonin protection against copper-ascorbate-induced oxidative damage in vitro through isothermal titration calorimetry. <i>Life Sciences</i> , 2017, 180, 123-136.	4.3	17
545	Melatonin: An atypical hormone with major functions in the regulation of angiogenesis. <i>IUBMB Life</i> , 2020, 72, 1560-1584.	3.4	17
546	Melatonin: reducing molecular pathology and dysfunction due to free radicals and associated reactants. <i>Neuroendocrinology Letters</i> , 2002, 23 Suppl 1, 3-8.	0.2	17
547	Non-Suppressibility by Room Light of Pineal N-Acetyltransferase Activity and Melatonin Levels in Two Diurnally Active Rodents, The Mexican Ground Squirrel (<i>Sperophilus Rexicamis</i>) and the Eastern Chipmunk (<i>Taricus Striatus</i>). <i>Endocrine Research</i> , 1984, 10, 113-121.	1.2	16
548	Hormonal Modulation of Cyclic Melatonin Production in the Pineal Gland of Rats and Syrian Hamsters: Effects of Thyroidectomy or Thyroxine Implant. <i>Chronobiology International</i> , 1985, 2, 177-183.	2.0	16
549	Changes in Indole Metabolism in Organ Cultured Rat Pineal Glands Induced by Interferon-?. <i>Journal of Pineal Research</i> , 1990, 8, 313-322.	7.4	16
550	Low temperature stimulates pineal activity in Syrian hamsters. <i>Journal of Pineal Research</i> , 1991, 10, 43-48.	7.4	16
551	Circadian and seasonal rhythms of melatonin production in mules (<i>Equus asinus</i> – <i>Equus caballus</i>). <i>Journal of Pineal Research</i> , 1991, 10, 130-135.	7.4	16
552	When the Circadian Clock Meets the Melanin Pigmentary System. <i>Journal of Investigative Dermatology</i> , 2015, 135, 943-945.	0.7	16
553	Melatonin and Neonatal Sepsis: A Promising Antioxidant Adjuvant Agent. <i>American Journal of Perinatology</i> , 2017, 34, 1382-1388.	1.4	16
554	Melatonin Improves the Fertilization Capacity of Sex-Sorted Bull Sperm by Inhibiting Apoptosis and Increasing Fertilization Capacitation via MT1. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3921.	4.1	16
555	Protective stabilization of mitochondrial permeability transition and mitochondrial oxidation during mitochondrial Ca ²⁺ stress by melatonin's cascade metabolites C3 ^{OH} M and AFMK in RBA1 astrocytes. <i>Journal of Pineal Research</i> , 2019, 66, e12538.	7.4	16
556	Central and peripheral actions of melatonin on reproduction in seasonal and continuous breeding mammals. <i>General and Comparative Endocrinology</i> , 2021, 300, 113620.	1.8	16
557	Mechanisms and clinical evidence to support melatonin's use in severe COVID-19 patients to lower mortality. <i>Life Sciences</i> , 2022, 294, 120368.	4.3	16
558	Effects of Short-Day Photoperiods and of N-(2,4-Dinitrophenyl)-5-Methoxytryptamine, a Putative Melatonin Antagonist, on Melatonin Synthesis in the Harderian Gland of the Syrian Hamster, <i>Mesocricetus auratus</i> . <i>Journal of Pineal Research</i> , 1990, 8, 229-235.	7.4	15

#	ARTICLE	IF	CITATIONS
559	Melatonin protection from chronic, low-level ionizing radiation. <i>Mutation Research - Reviews in Mutation Research</i> , 2012, 751, 7-14.	5.5	15
560	Melatonin role preventing steatohepatitis and improving liver transplantation results. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 2911-2927.	5.4	15
561	Melatonin therapy for blunt trauma and strenuous exercise: A mechanism involving cytokines, NF κ B, Akt, MAF and MURF-1. <i>Journal of Sports Sciences</i> , 2018, 36, 1897-1901.	2.0	15
562	Melatonin is an appropriate candidate for breast cancer treatment: Based on known molecular mechanisms. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 12208-12215.	2.6	15
563	Melatonin's efficacy in stroke patients; a matter of dose? A systematic review. <i>Toxicology and Applied Pharmacology</i> , 2020, 392, 114933.	2.8	15
564	Part-time cancers and role of melatonin in determining their metabolic phenotype. <i>Life Sciences</i> , 2021, 278, 119597.	4.3	15
565	Metal ion homeostasis with emphasis on zinc and copper: Potential crucial link to explain the non-classical antioxidative properties of vitamin D and melatonin. <i>Life Sciences</i> , 2021, 281, 119770.	4.3	15
566	Targeting AMPK signaling in ischemic/reperfusion injury: From molecular mechanism to pharmacological interventions. <i>Cellular Signalling</i> , 2022, 94, 110323.	3.6	15
567	Fine-tuning of pathogenesis-related protein 1 (PR1) activity by the melatonin biosynthetic enzyme ASMT2 in defense response to cassava bacterial blight. <i>Journal of Pineal Research</i> , 2022, 72, e12784.	7.4	15
568	Melatonin induction of testicular recrudescence in hamsters and its subsequent inhibitory action on the antigonadotrophic influence of darkness on the pituitary-gonadal axis. <i>American Journal of Anatomy</i> , 1976, 147, 235-241.	1.0	14
569	Delayed reproductive regression in male hamsters bearing intrarenal pituitary homografts and kept under natural winter photoperiods. <i>The Journal of Experimental Zoology</i> , 1979, 209, 175-180.	1.4	14
570	Attenuated nocturnal rise in pineal and serum melatonin in a genetically cardiomyopathic Syrian hamster with a deficient calcium pump. <i>Journal of Pineal Research</i> , 1991, 11, 156-162.	7.4	14
571	The effects of melatonin supplementation on blood pressure in patients with metabolic disorders: a systematic review and meta-analysis of randomized controlled trials. <i>Journal of Human Hypertension</i> , 2019, 33, 202-209.	2.2	14
572	Melatonin as a Therapeutic Agent for the Inhibition of Hypoxia-Induced Tumor Progression: A Description of Possible Mechanisms Involved. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10874.	4.1	14
573	Melatonin: Regulation of Prion Protein Phase Separation in Cancer Multidrug Resistance. <i>Molecules</i> , 2022, 27, 705.	3.8	14
574	Brain Amines and Convulsions in Four Strains of Parathyroidectomized, Pinealectomized Rat. <i>Epilepsia</i> , 1978, 19, 133-137.	5.1	13
575	Ultrastructure of the pineal gland of the eastern chipmunk (<i>Tamias striatus</i>). <i>Journal of Morphology</i> , 1982, 173, 73-86.	1.2	13
576	Morphological and morphometric changes in the ovaries of white-footed mice (<i>Peromyscus leucopus</i>) following exposure to long or short photoperiod. <i>The Anatomical Record</i> , 1983, 205, 13-19.	1.8	13

#	ARTICLE	IF	CITATIONS
577	Responsiveness of Pineal N-Acetyltransferase and Melatonin in the Cotton Rat Exposed to Either Artificial or Natural Light at Night. <i>Journal of Pineal Research</i> , 1985, 2, 375-386.	7.4	13
578	Depression in Rat Pineal N-Acetyltransferase Activity and Melatonin Content Produced by a Hind Leg Saline Injection is Time and Darkness Dependent. <i>Journal of Pineal Research</i> , 1987, 4, 185-195.	7.4	13
579	Lighting the way: advances in transcriptional regulation and integrative crosstalk of melatonin biosynthetic enzymes in cassava. <i>Journal of Experimental Botany</i> , 2021, 72, 161-166.	4.8	13
580	Melatonin and Cardioprotection in Humans: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 635083.	2.4	13
581	The Mechanism of Oral Melatonin Ameliorates Intestinal and Adipose Lipid Dysmetabolism Through Reducing Escherichia Coli-Derived Lipopolysaccharide. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 12, 1643-1667.	4.5	13
582	Oxidative damage to nuclear DNA: amelioration by melatonin. <i>NEL Review. Neuroendocrinology Letters</i> , 1999, 20, 145-150.	0.2	13
583	Bioactive peptides of plant origin: distribution, functionality, and evidence of benefits in food and health. <i>Food and Function</i> , 2022, 13, 3133-3158.	4.6	13
584	Tunneling nanotubes and mesenchymal stem cells: New insights into the role of melatonin in neuronal recovery. <i>Journal of Pineal Research</i> , 2022, 73, .	7.4	13
585	PP2C1 fine-tunes melatonin biosynthesis and phytemelatonin receptor PMTR1 binding to melatonin in cassava. <i>Journal of Pineal Research</i> , 2022, 73, .	7.4	13
586	Melatonin and cannabinoids: mitochondrial-targeted molecules that may reduce inflammaging in neurodegenerative diseases. <i>Histology and Histopathology</i> , 2020, 35, 789-800.	0.7	12
587	Melatonin inhibits human melanoma cells proliferation and invasion via cell cycle arrest and cytoskeleton remodeling. <i>Melatonin Research</i> , 2020, 3, 194-209.	1.1	12
588	Melatonin inhibits Gram-negative pathogens by targeting citrate synthase. <i>Science China Life Sciences</i> , 2022, 65, 1430-1444.	4.9	12
589	Relative Efficacy of Melatonin and 5-Methoxytryptamine in Terms of Their Antigonadotrophic and Counterantigonadotrophic Actions in Male Syrian Hamsters. <i>Journal of Pineal Research</i> , 1984, 1, 91-98.	7.4	11
590	Rhythms in Pineal Immunoreactive Somatostatin in the Syrian Hamster, Mouse, and Gerbil. <i>Journal of Pineal Research</i> , 1988, 5, 273-278.	7.4	11
591	Elevated Environmental Temperature Alters the Responses of the Reproductive and Thyroid Axes of Female Syrian Hamsters to Afternoon Melatonin Injections. <i>Journal of Pineal Research</i> , 1988, 5, 301-315.	7.4	11
592	Melatonin and Related Compounds: Chemical Insights into their Protective Effects Against Oxidative Stress. <i>Current Organic Chemistry</i> , 2017, 21, .	1.6	11
593	Melatonin as a potential inhibitor of kidney cancer: A survey of the molecular processes. <i>IUBMB Life</i> , 2020, 72, 2355-2365.	3.4	11
594	Is melatonin deficiency a unifying pathomechanism of high risk patients with COVID-19?. <i>Life Sciences</i> , 2020, 256, 117902.	4.3	11

#	ARTICLE	IF	CITATIONS
595	mRNA transcription determines the lag period for the induction of pineal melatonin synthesis in the Syrian hamster pineal gland. <i>Journal of Cellular Biochemistry</i> , 1990, 44, 55-60.	2.6	10
596	Different routes and formulations of melatonin in critically ill patients. A pharmacokinetic randomized study. <i>Clinical Endocrinology</i> , 2019, 91, 209-218.	2.4	10
597	Detection of Serotonin, Melatonin, and Their Metabolites in Honey. <i>ACS Food Science & Technology</i> , 2021, 1, 1228-1235.	2.7	10
598	Coadministration of Melatonin and Insulin Improves Diabetes-Induced Impairment of Rat Kidney Function. <i>Neuroendocrinology</i> , 2022, 112, 807-822.	2.5	10
599	Timing is everything: Circadian rhythms and their role in the control of sleep. <i>Frontiers in Neuroendocrinology</i> , 2022, 66, 100978.	5.2	10
600	Melatonin: new applications in clinical and veterinary medicine, plant physiology and industry. <i>Neuroendocrinology Letters</i> , 2011, 32, 575-87.	0.2	10
601	Ultrastructure of pinealocytes of the kangaroo rat (<i>Dipodomys ordi</i>). <i>Cell and Tissue Research</i> , 1982, 226, 167-75.	2.9	9
602	Effect of 6-Methoxy-2-Benzoxazolinone on the Activities of Rat Pineal N-Acetyltransferase and Hydroxyindole-O-Methyltransferase and on Melatonin Production. <i>Journal of Pineal Research</i> , 1990, 8, 57-66.	7.4	9
603	MELATONIN AND ITS ROLE IN NEURODEVELOPMENT DURING THE PERINATAL PERIOD: A REVIEW. <i>Fetal and Maternal Medicine Review</i> , 2013, 24, 76-107.	0.3	9
604	Melatonin for cardioprotection in ST elevation myocardial infarction: are we ready for the challenge?. <i>Heart</i> , 2017, 103, 647-648.	2.9	9
605	Melatonin: A potential therapeutic agent against COVID-19. <i>Melatonin Research</i> , 2021, 4, 30-69.	1.1	9
606	Effects of intraventricular injections of 6-hydroxydopamine on anterior pituitary cell proliferation. <i>The Anatomical Record</i> , 1984, 208, 421-426.	1.8	8
607	Chronic administration of sublethal doses of carbaryl increases pineal N-acetyltransferase and hydroxyindole-O-methyltransferase activities and serum melatonin levels. <i>Journal of Pineal Research</i> , 1991, 10, 49-54.	7.4	8
608	Elevation of cyclic GMP levels in the rat pineal gland induced by nitric oxide. <i>Journal of Pineal Research</i> , 1994, 16, 210-214.	7.4	8
609	Antioxidant and Anti-Inflammatory Role of Melatonin in Alzheimer's Neurodegeneration. , 2014, , 177-193.		8
610	Melatonin as a potential inhibitor of colorectal cancer: Molecular mechanisms. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 12216-12223.	2.6	8
611	Melatonin as an inducer of arecoline and their coordinated roles in anti-oxidative activity and immune responses. <i>Food and Function</i> , 2020, 11, 8788-8799.	4.6	8
612	Melatonin Administration from 2000 to 2020 to Human Newborns with Hypoxic-Ischemic Encephalopathy. <i>American Journal of Perinatology</i> , 2022, 39, 824-829.	1.4	8

#	ARTICLE	IF	CITATIONS
613	“Distant socializing,” not “social distancing” as a public health strategy for COVID-19. <i>Pathogens and Global Health</i> , 2021, 115, 357-364.	2.3	8
614	Evaluation of Polymeric Matrix Loaded with Melatonin for Wound Dressing. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5658.	4.1	8
615	Association of melatonin membrane receptor 1A/1B gene polymorphisms with the occurrence and metastasis of hepatocellular carcinoma. <i>Oncotarget</i> , 2017, 8, 85655-85669.	1.8	8
616	Melatonin and andrographolide synergize to inhibit the colospheroid phenotype by targeting Wnt/beta-catenin signaling. <i>Journal of Pineal Research</i> , 2022, 73, .	7.4	8
617	Diurnal variation in uterine estrogen receptors in immature female rats - Inhibition by Arginine Vasotocin. <i>Endocrine Research Communications</i> , 1979, 6, 191-201.	0.5	7
618	Effects of Long and Short Photoperiod on the Ultrastructure of Pinealocytes of the Cotton Rat (<i>Sigmodon hispidus</i>). <i>Journal of Pineal Research</i> , 1986, 3, 323-330.	7.4	7
619	A hypothetical role for autophagy during the day/night rhythm-regulated melatonin synthesis in the rat pineal gland. <i>Journal of Pineal Research</i> , 2021, 71, e12742.	7.4	7
620	Low melatonin as a contributor to SARS-CoV-2 disease. <i>Melatonin Research</i> , 2020, 3, 558-576.	1.1	7
621	Protective actions of vitamin D, anandamide and melatonin during vascular inflammation: Epigenetic mechanisms involved. <i>Life Sciences</i> , 2022, 288, 120191.	4.3	7
622	Potential biological consequences of excessive light exposure: melatonin suppression, DNA damage, cancer and neurodegenerative diseases. <i>Neuroendocrinology Letters</i> , 2002, 23 Suppl 2, 9-13.	0.2	7
623	Premarin Reduces Neurodegeneration and Promotes Improvement of Function in an Animal Model of Spinal Cord Injury. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2384.	4.1	7
624	Assessment of Melatonin-Cultured Collagen/Chitosan Scaffolds Cross-Linked by a Glyoxal Solution as Biomaterials for Wound Healing. <i>Antioxidants</i> , 2022, 11, 570.	5.1	7
625	Early Treatment of Acute Myocardial Infarction with Melatonin: Effects on MMP-9 and Adverse Cardiac Events. <i>Journal of Clinical Medicine</i> , 2022, 11, 1909.	2.4	7
626	Nuclear and Cytoplasmic Inclusion Bodies in Pinealocytes of the Cotton Rat, <i>Sigmodon hispidus</i> : An Electron Microscopic Study. <i>Journal of Pineal Research</i> , 1984, 1, 293-304.	7.4	6
627	Vasoactive intestinal peptide stimulates N-acetyltransferase and hydroxyindole-O-methyltransferase activities and melatonin production in cultured rat but not in Syrian hamster pineal glands. <i>Journal of Pineal Research</i> , 1992, 12, 35-42.	7.4	6
628	Chronic N-Methyl-D-Aspartate Administration Prevents Melatonin-Associated Changes in Cell Differentiation in the Harderian Glands of Male Hamsters. <i>Endocrine Research</i> , 1993, 19, 101-111.	1.2	6
629	Suppression of Nocturnal Pineal N-Acetyltransferase Activity and Melatonin Content by Inverted Magnetic Fields and Induced Eddy Currents. <i>International Journal of Neuroscience</i> , 1993, 69, 149-155.	1.6	6
630	The pineal gland: A model for adrenergic modulation of ubiquitin ligases. <i>PLoS ONE</i> , 2017, 12, e0172441.	2.5	6

#	ARTICLE	IF	CITATIONS
631	Understanding the oncostatic actions displayed by melatonin in colorectal cancer therapy. <i>Future Medicinal Chemistry</i> , 2020, 12, 1201-1204.	2.3	6
632	Melatonin, cardiovascular disease and COVID-19: A potential therapeutic strategy?. <i>Melatonin Research</i> , 2020, 3, 318-321.	1.1	6
633	Pineal-induced alterations in reproductive function and pituitary prolactin in the female rat: The effects of bilateral superior cervical ganglionectomy and nervi conarii transection. <i>Journal of Neuroscience Research</i> , 1977, 3, 127-133.	2.9	5
634	Pineal sensitivity to nighttime swimming stress changes during the active season in Richardson's ground squirrels (<i>Spermophilus richardsonii</i>). <i>The Journal of Experimental Zoology</i> , 1989, 250, 298-303.	1.4	5
635	Histochemical detection of monoamine oxidase and alcohol dehydrogenase activities in the Syrian hamster Harderian glands: existence of a sexual dimorphism. <i>The Histochemical Journal</i> , 1989, 21, 125-130.	0.6	5
636	Hydroxyindole-O-methyltransferase activity in the pineal gland of the muskox (<i>Ovibos moschatus</i>). <i>Journal of Pineal Research</i> , 1994, 16, 121-126.	7.4	5
637	Melatonin Suppression by Time-Varying and Time-Invariant Electromagnetic Fields. <i>Advances in Chemistry Series</i> , 1995, , 451-465.	0.6	5
638	Role of extracellular calcium on the regulation of melatonin synthesis in the Syrian hamster pineal gland. <i>Journal of Pineal Research</i> , 2001, 31, 289-293.	7.4	5
639	The synthesis and the structure elucidation of N,O-diacetyl derivative of cyclic 3-hydroxymelatonin. <i>Open Chemistry</i> , 2004, 2, 425-433.	1.9	5
640	Autoxidation and Toxicant-Induced Oxidation of Lipid and DNA in Monkey Liver: Reduction of Molecular Damage by Melatonin. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2008, 89, 225-230.	0.0	5
641	Melatonin: A hypothesis regarding its use to treat Wilson disease. <i>Medical Hypotheses</i> , 2019, 133, 109408.	1.5	5
642	Differential and Overlapping Effects of Melatonin and Its Metabolites on Keratinocyte Function: Bioinformatics and Metabolic Analyses. <i>Antioxidants</i> , 2021, 10, 618.	5.1	5
643	Differential expression and interaction of melatonin and thyroid hormone receptors with estrogen receptor \pm improve ovarian functions in letrozole-induced rat polycystic ovary syndrome. <i>Life Sciences</i> , 2022, 295, 120086.	4.3	5
644	Potentiating the Benefits of Melatonin through Chemical Functionalization: Possible Impact on Multifactorial Neurodegenerative Disorders. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11584.	4.1	5
645	Melatonin use for SARS-CoV-2 infection: Time to diversify the treatment portfolio. <i>Journal of Medical Virology</i> , 2022, 94, 2928-2930.	5.0	5
646	OUP accepted manuscript. <i>Journal of Experimental Botany</i> , 2022, , .	4.8	5
647	Influence of Psoralen on NAT Activity and Melatonin Levels in Rat Pineal Gland during the Daily Period of Darkness. <i>Endocrine Research</i> , 1987, 13, 43-48.	1.2	4
648	Undernutrition potentiates melatonin effects in maturing female rats. <i>Journal of Endocrinological Investigation</i> , 1989, 12, 103-110.	3.3	4

#	ARTICLE	IF	CITATIONS
649	Sexual differences in 5 α -deiodinase activity in the harderian gland of Syrian hamsters and the effect of pinealectomy: Regulation by androgens. <i>Journal of Cellular Biochemistry</i> , 1996, 62, 397-404.	2.6	4
650	Melatonin, Sleep, and Prostate Cancer in Elderly Men: Study, Hypothesis Development, and Icelandic Options. <i>European Urology</i> , 2015, 67, 195-197.	1.9	4
651	The potential utility of melatonin in the treatment of childhood cancer. <i>Journal of Cellular Physiology</i> , 2019, 234, 19158-19166.	4.1	4
652	FLUCTUATIONS IN MELATONIN CONTENT AND ITS EFFECTS ON THE AGEING PROCESS OF LETTUCE SEEDS DURING STORAGE. <i>Acta Scientiarum Polonorum, Hortorum Cultus</i> , 2021, 20, 77-88.	0.6	4
653	The proteomic landscape of ovarian cancer cells in response to melatonin. <i>Life Sciences</i> , 2022, 294, 120352.	4.3	4
654	Neural glymphatic system: Clinical implications and potential importance of melatonin. <i>Melatonin Research</i> , 2021, 4, 551-565.	1.1	4
655	Follicular growth and intraovarian and extraovarian oocyte release after daily injections of melatonin and 6-chloromelatonin in the Syrian hamster. <i>American Journal of Anatomy</i> , 1983, 167, 371-380.	1.0	3
656	Iron decreases the nuclear but not the cytosolic content of the neurohormone melatonin in several tissues in chicks. , 1996, 60, 317-321.		3
657	Circadian variation in acute myocardial infarction size: Likely involvement of the melatonin and suprachiasmatic nuclei. <i>International Journal of Cardiology</i> , 2017, 235, 191.	1.7	3
658	An evaluation on the level of retinoids in the bovine pineal body. <i>Advances in Pineal Research</i> , 1989, 3, 147-150.	0.0	3
659	Resveratrol and Cervical Cancer: A New Therapeutic Option?. <i>Mini-Reviews in Medicinal Chemistry</i> , 2022, 22, .	2.4	3
660	Chronodisruption: Origin, Roots, and Developments of an 18-Year-Old Concept. Comment on Desmet et al. Time-Restricted Feeding in Mice Prevents the Disruption of the Peripheral Circadian Clocks and Its Metabolic Impact during Chronic Jetlag. <i>Nutrients</i> 2021, 13, 3846. <i>Nutrients</i> , 2022, 14, 315.	4.1	3
661	A quantitative ultrastructural study of the pinealocyte of the chipmunk (<i>Tamias striatus</i>) during the daytime and at night. <i>Journal of Neuroscience Research</i> , 1982, 7, 397-401.	2.9	2
662	Diurnal Sensitivity of the Neuroendocrine-Reproductive Axis to the Antigonadotrophic Influence of Melatonin in Male Syrian Hamsters with Experimentally Altered Cortisol Rhythms. <i>Chronobiology International</i> , 1985, 2, 47-54.	2.0	2
663	Nyctohemeral Rhythms of Gonadal, Thyroid and Pineal Function in the Hyperprolactinemic Male Rat. <i>Chronobiology International</i> , 1988, 5, 107-114.	2.0	2
664	Melatonin as an Agent for Cardioprotection in Patients with ST-Elevation Myocardial Infarction and Short Ischaemic Time. <i>Cardiovascular Drugs and Therapy</i> , 2017, 31, 227-228.	2.6	2
665	Melatonergic index as a prognostic biomarker of reproductive organ cancers: correlations with metabolic parameters as well as clock genes PER1 and TIMELESS. <i>Melatonin Research</i> , 2021, 4, 299-315.	1.1	2
666	Alkylating Agent-Induced Toxicity and Melatonin-Based Therapies. <i>Frontiers in Pharmacology</i> , 2022, 13, 873197.	3.5	2

#	ARTICLE	IF	CITATIONS
667	Melatonin, tunneling nanotubes and anastasis: Cheating cell death. <i>Melatonin Research</i> , 2021, 4, 566-580.	1.1	2
668	Editorial: SIRT Family in Endocrinology. <i>Frontiers in Endocrinology</i> , 2019, 10, 347.	3.5	1
669	Dysregulated light/dark cycle impairs sleep and delays the recovery of patients in intensive care units: A call for action for COVID-19 treatment. <i>Chronobiology International</i> , 2022, 39, 903-906.	2.0	1
670	Mg ²⁺ -dependent and Ca ²⁺ , Mg ²⁺ -dependent ATPase activities in the Harderian gland of rodents: Age and sex influences. , 1996, 34, 144-148.		0
671	Editorial: Update on the Endocrinology of Myocardial Aging/Heart Failure. <i>Frontiers in Endocrinology</i> , 2020, 11, 580948.	3.5	0
672	Melatonin, coronavirus, cardiovascular disease, and the geriatric emergency: let's use everything we have!. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2020, 73, 1081-1082.	0.6	0
673	Cover Image, Volume 40, Issue 2. <i>Medicinal Research Reviews</i> , 2020, 40, i.	10.5	0
674	Melatonin as an Adjuvant Therapy Against Lung Paraquat Toxicity in Rats. <i>FASEB Journal</i> , 2008, 22, 1131.3.	0.5	0
675	EXPOSURE TO NATURAL DECREASING PHOTOPERIOD AND TEMPERATURE CONDITIONS INDUCES A MORE RAPID REPRODUCTIVE INVOLUTION IN INBRED (LSH/SsLak) THAN IN RANDOM BRED (LVG/Lak) FEMALE HAMSTERS . <i>Biomedical Research</i> , 1989, 10, 217-225.	0.9	0
676	Rapid-onset/offset, variably scheduled 60 Hz electric and magnetic field exposure reduces nocturnal serum melatonin concentration in nonhuman primates. <i>Bioelectromagnetics</i> , 1996, 17, 119-122.	1.6	0
677	The altruism of melatonin: A molecule that protects, heals, and even takes care of the night-shift duties. , 2019, , 43-45.		0
678	Journal of Pineal Research guidelines for authors: Melatonin studies using plants. <i>Journal of Pineal Research</i> , 2022, 73, .	7.4	0