

Germaine Escames

List of Publications by Citations

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

148 papers	9,201 citations	54 h-index	92 g-index
155 ext. papers	10,152 ext. citations	6 avg, IF	5.7 L-index

#	Paper	IF	Citations
148	Extrapineal melatonin: sources, regulation, and potential functions. <i>Cellular and Molecular Life Sciences</i> , 2014 , 71, 2997-3025	10.3	562
147	Melatonin mitigates mitochondrial malfunction. <i>Journal of Pineal Research</i> , 2005 , 38, 1-9	10.4	418
146	Extrapineal melatonin: analysis of its subcellular distribution and daily fluctuations. <i>Journal of Pineal Research</i> , 2012 , 52, 217-27	10.4	381
145	Melatonin, mitochondria, and cellular bioenergetics. <i>Journal of Pineal Research</i> , 2001 , 30, 65-74	10.4	302
144	Melatonin but not vitamins C and E maintains glutathione homeostasis in t-butyl hydroperoxide-induced mitochondrial oxidative stress. <i>FASEB Journal</i> , 2000 , 14, 1677-9	0.9	277
143	Melatonin prevents changes in microsomal membrane fluidity during induced lipid peroxidation. <i>FEBS Letters</i> , 1997 , 408, 297-300	3.8	237
142	Melatonin inhibits expression of the inducible NO synthase II in liver and lung and prevents endotoxemia in lipopolysaccharide-induced multiple organ dysfunction syndrome in rats. <i>FASEB Journal</i> , 1999 , 13, 1537-1546	0.9	230
141	Melatonin-induced increased activity of the respiratory chain complexes I and IV can prevent mitochondrial damage induced by ruthenium red in vivo. <i>Journal of Pineal Research</i> , 2000 , 28, 242-8	10.4	208
140	Melatonin protects the mitochondria from oxidative damage reducing oxygen consumption, membrane potential, and superoxide anion production. <i>Journal of Pineal Research</i> , 2009 , 46, 188-98	10.4	205
139	Melatonin increases the activity of the oxidative phosphorylation enzymes and the production of ATP in rat brain and liver mitochondria. <i>International Journal of Biochemistry and Cell Biology</i> , 2002 , 34, 348-57	5.6	190
138	Melatonin-mitochondria interplay in health and disease. <i>Current Topics in Medicinal Chemistry</i> , 2011 , 11, 221-40	3	179
137	Disruption of the NF- κ B/NLRP3 connection by melatonin requires retinoid-related orphan receptor-1 and blocks the septic response in mice. <i>FASEB Journal</i> , 2015 , 29, 3863-75	0.9	140
136	Cell protective role of melatonin in the brain. <i>Journal of Pineal Research</i> , 1995 , 19, 57-63	10.4	140
135	Melatonin counteracts lipopolysaccharide-induced expression and activity of mitochondrial nitric oxide synthase in rats. <i>FASEB Journal</i> , 2003 , 17, 932-4	0.9	136
134	Melatonin, mitochondrial homeostasis and mitochondrial-related diseases. <i>Current Topics in Medicinal Chemistry</i> , 2002 , 2, 133-51	3	123
133	Melatonin treatment normalizes plasma pro-inflammatory cytokines and nitrosative/oxidative stress in patients suffering from Duchenne muscular dystrophy. <i>Journal of Pineal Research</i> , 2010 , 48, 282-289	10.4	119
132	Inhibition of neuronal nitric oxide synthase activity by N1-acetyl-5-methoxykynuramine, a brain metabolite of melatonin. <i>Journal of Neurochemistry</i> , 2006 , 98, 2023-33	6	111

131	Melatonin counteracts inducible mitochondrial nitric oxide synthase-dependent mitochondrial dysfunction in skeletal muscle of septic mice. <i>Journal of Pineal Research</i> , 2006 , 40, 71-8	10.4	111
130	Structure-related inhibition of calmodulin-dependent neuronal nitric-oxide synthase activity by melatonin and synthetic kynurenines. <i>Molecular Pharmacology</i> , 2000 , 58, 967-75	4.3	111
129	Melatonin role in the mitochondrial function. <i>Frontiers in Bioscience - Landmark</i> , 2007 , 12, 947-63	2.8	111
128	Long-term melatonin administration protects brain mitochondria from aging. <i>Journal of Pineal Research</i> , 2009 , 47, 192-200	10.4	108
127	Attenuation of cardiac mitochondrial dysfunction by melatonin in septic mice. <i>FEBS Journal</i> , 2007 , 274, 2135-47	5.7	103
126	Chronic melatonin treatment reduces the age-dependent inflammatory process in senescence-accelerated mice. <i>Journal of Pineal Research</i> , 2007 , 42, 272-9	10.4	102
125	Same molecule but different expression: aging and sepsis trigger NLRP3 inflammasome activation, a target of melatonin. <i>Journal of Pineal Research</i> , 2016 , 60, 193-205	10.4	101
124	Mitochondrial regulation by melatonin and its metabolites. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 527, 549-57	3.6	100
123	Melatonin and its brain metabolite N(1)-acetyl-5-methoxykynuramine prevent mitochondrial nitric oxide synthase induction in parkinsonian mice. <i>Journal of Neuroscience Research</i> , 2009 , 87, 3002-10	4.4	99
122	Melatonin blunts the mitochondrial/NLRP3 connection and protects against radiation-induced oral mucositis. <i>Journal of Pineal Research</i> , 2015 , 58, 34-49	10.4	97
121	Circadian rhythms of dopamine and dihydroxyphenyl acetic acid in the mouse striatum: effects of pinealectomy and of melatonin treatment. <i>Neuroendocrinology</i> , 2002 , 75, 201-8	5.6	97
120	Cellular mechanisms involved in the melatonin inhibition of HT-29 human colon cancer cell proliferation in culture. <i>Journal of Pineal Research</i> , 2007 , 43, 195-205	10.4	88
119	Exercise and melatonin in humans: reciprocal benefits. <i>Journal of Pineal Research</i> , 2012 , 52, 1-11	10.4	87
118	Identification of an inducible nitric oxide synthase in diaphragm mitochondria from septic mice: its relation with mitochondrial dysfunction and prevention by melatonin. <i>International Journal of Biochemistry and Cell Biology</i> , 2006 , 38, 267-78	5.6	87
117	Melatonin and vitamin E limit nitric oxide-induced lipid peroxidation in rat brain homogenates. <i>Neuroscience Letters</i> , 1997 , 230, 147-50	3.3	86
116	Combination of melatonin and rapamycin for head and neck cancer therapy: Suppression of AKT/mTOR pathway activation, and activation of mitophagy and apoptosis via mitochondrial function regulation. <i>Journal of Pineal Research</i> , 2018 , 64, e12461	10.4	85
115	Melatonin's role as an anticonvulsant and neuronal protector: experimental and clinical evidence. <i>Journal of Child Neurology</i> , 1998 , 13, 501-9	2.5	83
114	Pharmacological utility of melatonin in the treatment of septic shock: experimental and clinical evidence. <i>Journal of Pharmacy and Pharmacology</i> , 2006 , 58, 1153-65	4.8	82

113	Comparative effects of melatonin, L-deprenyl, Trolox and ascorbate in the suppression of hydroxyl radical formation during dopamine autoxidation in vitro. <i>Journal of Pineal Research</i> , 2000 , 29, 100-7	10.4	81
112	Improved mitochondrial function and increased life span after chronic melatonin treatment in senescent prone mice. <i>Experimental Gerontology</i> , 2008 , 43, 749-56	4.5	78
111	Chronic melatonin treatment prevents age-dependent cardiac mitochondrial dysfunction in senescence-accelerated mice. <i>Free Radical Research</i> , 2007 , 41, 15-24	4	78
110	Mitochondrial DNA and inflammatory diseases. <i>Human Genetics</i> , 2012 , 131, 161-73	6.3	75
109	Dysfunctional Coq9 protein causes predominant encephalomyopathy associated with CoQ deficiency. <i>Human Molecular Genetics</i> , 2013 , 22, 1233-48	5.6	72
108	Prophylactic actions of melatonin in oxidative neurotoxicity. <i>Annals of the New York Academy of Sciences</i> , 1997 , 825, 70-8	6.5	72
107	Calreticulin-melatonin. An unexpected relationship. <i>FEBS Journal</i> , 2003 , 270, 832-40		71
106	Melatonin enhances tamoxifen's ability to prevent the reduction in microsomal membrane fluidity induced by lipid peroxidation. <i>Journal of Membrane Biology</i> , 1998 , 162, 59-65	2.3	70
105	Melatonin protects rats from radiotherapy-induced small intestine toxicity. <i>PLoS ONE</i> , 2017 , 12, e0174474	3.7	68
104	Melatonin plus physical exercise are highly neuroprotective in the 3xTg-AD mouse. <i>Neurobiology of Aging</i> , 2012 , 33, 1124.e13-29	5.6	67
103	Melatonin administration to wild-type mice and nontreated NLRP3 mutant mice share similar inhibition of the inflammatory response during sepsis. <i>Journal of Pineal Research</i> , 2017 , 63, e12410	10.4	66
102	Synergistic effects of melatonin and deprenyl against MPTP-induced mitochondrial damage and DA depletion. <i>Neurobiology of Aging</i> , 2003 , 24, 491-500	5.6	65
101	The beneficial effects of melatonin against heart mitochondrial impairment during sepsis: inhibition of iNOS and preservation of nNOS. <i>Journal of Pineal Research</i> , 2014 , 56, 71-81	10.4	62
100	Melatonin improves inflammation processes in liver of senescence-accelerated prone male mice (SAMP8). <i>Experimental Gerontology</i> , 2010 , 45, 950-6	4.5	62
99	Parameters of oxidative stress in saliva from diabetic and parenteral drug addict patients. <i>Journal of Oral Pathology and Medicine</i> , 2006 , 35, 554-9	3.3	62
98	The clinical heterogeneity of coenzyme Q10 deficiency results from genotypic differences in the Coq9 gene. <i>EMBO Molecular Medicine</i> , 2015 , 7, 670-87	12	60
97	4,5-dihydro-1H-pyrazole derivatives with inhibitory nNOS activity in rat brain: synthesis and structure-activity relationships. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 5641-50	8.3	59
96	Melatonin, clock genes and mitochondria in sepsis. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 3965-3983	10.3	56

95	Melatonin-dopamine interaction in the striatal projection area of sensorimotor cortex in the rat. <i>NeuroReport</i> , 1996 , 7, 597-600	1.7	54
94	Modification of nitric oxide synthase activity and neuronal response in rat striatum by melatonin and kynurenine derivatives. <i>Journal of Neuroendocrinology</i> , 1998 , 10, 297-302	3.8	50
93	Melatonin rescues zebrafish embryos from the parkinsonian phenotype restoring the parkin/PINK1/DJ-1/MUL1 network. <i>Journal of Pineal Research</i> , 2016 , 61, 96-107	10.4	49
92	Melatonin reduces membrane rigidity and oxidative damage in the brain of SAMP8 mice. <i>Neurobiology of Aging</i> , 2011 , 32, 2045-54	5.6	49
91	Mechanisms of N-methyl-D-aspartate receptor inhibition by melatonin in the rat striatum. <i>Journal of Neuroendocrinology</i> , 2004 , 16, 929-35	3.8	49
90	Melatonin enhances neural stem cell differentiation and engraftment by increasing mitochondrial function. <i>Journal of Pineal Research</i> , 2017 , 63, e12415	10.4	48
89	Age-dependent lipopolysaccharide-induced iNOS expression and multiorgan failure in rats: effects of melatonin treatment. <i>Experimental Gerontology</i> , 2006 , 41, 1165-73	4.5	48
88	Melatonin and nitric oxide: two required antagonists for mitochondrial homeostasis. <i>Endocrine</i> , 2005 , 27, 159-68		48
87	CoQ deficiency causes disruption of mitochondrial sulfide oxidation, a new pathomechanism associated with this syndrome. <i>EMBO Molecular Medicine</i> , 2017 , 9, 78-95	12	47
86	Analysis of the daily changes of melatonin receptors in the rat liver. <i>Journal of Pineal Research</i> , 2013 , 54, 313-21	10.4	47
85	Relationship between salivary melatonin levels and periodontal status in diabetic patients. <i>Journal of Pineal Research</i> , 2003 , 35, 239-44	10.4	47
84	A review of the melatonin functions in zebrafish physiology. <i>Journal of Pineal Research</i> , 2014 , 57, 1-9	10.4	46
83	Beneficial effect of melatonin treatment on inflammation, apoptosis and oxidative stress on pancreas of a senescence accelerated mice model. <i>Mechanisms of Ageing and Development</i> , 2011 , 132, 573-82	5.6	46
82	Calcium-dependent effects of melatonin inhibition of glutamatergic response in rat striatum. <i>Journal of Neuroendocrinology</i> , 2001 , 13, 459-66	3.8	46
81	Kynurenamines as neural nitric oxide synthase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 8174-8183		45
80	Changes in brain amino acids and nitric oxide after melatonin administration in rats with pentylenetetrazole-induced seizures. <i>Journal of Pineal Research</i> , 2003 , 35, 54-60	10.4	45
79	Ubiquinol-10 ameliorates mitochondrial encephalopathy associated with CoQ deficiency. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 893-901	6.9	44
78	The role of mitochondria in brain aging and the effects of melatonin. <i>Current Neuropharmacology</i> , 2010 , 8, 182-93	7.6	43

77	Local application of melatonin into alveolar sockets of beagle dogs reduces tooth removal-induced oxidative stress. <i>Journal of Periodontology</i> , 2007 , 78, 576-83	4.6	43
76	Melatonin in the oral cavity: physiological and pathological implications. <i>Journal of Periodontal Research</i> , 2015 , 50, 9-17	4.3	42
75	Clinical trial to test the efficacy of melatonin in COVID-19. <i>Journal of Pineal Research</i> , 2020 , 69, e12683	10.4	42
74	Fluorinated indazoles as novel selective inhibitors of nitric oxide synthase (NOS): synthesis and biological evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 6180-7	3.4	41
73	Melatonin Enhances Cisplatin and Radiation Cytotoxicity in Head and Neck Squamous Cell Carcinoma by Stimulating Mitochondrial ROS Generation, Apoptosis, and Autophagy. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 7187128	6.7	39
72	Effect of a combined treatment with growth hormone and melatonin in the cardiological aging on male SAMP8 mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011 , 66, 823-34	6.4	38
71	Pyrazoles and pyrazolines as neural and inducible nitric oxide synthase (nNOS and iNOS) potential inhibitors (III). <i>European Journal of Medicinal Chemistry</i> , 2008 , 43, 2579-91	6.8	37
70	Melatonin restores the mitochondrial production of ATP in septic mice. <i>Neuroendocrinology Letters</i> , 2006 , 27, 623-30	0.3	36
69	Oxidative stress status, clinical outcome, and Hb gene cluster haplotypes in pediatric patients with sickle cell disease. <i>European Journal of Haematology</i> , 2010 , 85, 529-37	3.8	35
68	Melatonin protects lung mitochondria from aging. <i>Age</i> , 2012 , 34, 681-92		34
67	Analysis of Plasma MicroRNAs as Predictors and Biomarkers of Aging and Frailty in Humans. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 7671850	6.7	33
66	Melatonin treatment counteracts the hyperoxidative status in erythrocytes of patients suffering from Duchenne muscular dystrophy. <i>Clinical Biochemistry</i> , 2011 , 44, 853-8	3.5	31
65	Permeabilized myocardial fibers as model to detect mitochondrial dysfunction during sepsis and melatonin effects without disruption of mitochondrial network. <i>Mitochondrion</i> , 2016 , 27, 56-63	4.9	30
64	Inhibition of nNOS activity in rat brain by synthetic kynurenines: structure-activity dependence. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 263-74	8.3	29
63	Identification of morphological markers of sarcopenia at early stage of aging in skeletal muscle of mice. <i>Experimental Gerontology</i> , 2016 , 83, 22-30	4.5	28
62	Determination of coenzyme Q10, coenzyme Q9, and melatonin contents in virgin argan oils: comparison with other edible vegetable oils. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 12102-8	5.7	27
61	Selective CCK-A but not CCK-B receptor antagonists inhibit HT-29 cell proliferation: synergism with pharmacological levels of melatonin. <i>Journal of Pineal Research</i> , 2005 , 39, 243-50	10.4	27
60	Mitochondrial impairment and melatonin protection in parkinsonian mice do not depend of inducible or neuronal nitric oxide synthases. <i>PLoS ONE</i> , 2017 , 12, e0183090	3.7	26

59	The benefit of a supplement with the antioxidant melatonin on redox status and muscle damage in resistance-trained athletes. <i>Applied Physiology, Nutrition and Metabolism</i> , 2017 , 42, 700-707	3	25
58	Melatonin decreases the expression of inflammation and apoptosis markers in the lung of a senescence-accelerated mice model. <i>Experimental Gerontology</i> , 2016 , 75, 1-7	4.5	25
57	Protective Effects of Melatonin on the Skin: Future Perspectives. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	25
56	Oral Mucositis: Melatonin Gel an Effective New Treatment. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	25
55	Phenylpyrrole derivatives as neural and inducible nitric oxide synthase (nNOS and iNOS) inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2009 , 44, 2655-66	6.8	25
54	Changes in iNOS activity, oxidative stress and melatonin levels in hypertensive patients treated with lacidipine. <i>Journal of Hypertension</i> , 2004 , 22, 629-35	1.9	25
53	Lack of NLRP3 Inflammasome Activation Reduces Age-Dependent Sarcopenia and Mitochondrial Dysfunction, Favoring the Prophylactic Effect of Melatonin. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019 , 74, 1699-1708	6.4	24
52	Protective effects of melatonin against oxidative damage induced by Egyptian cobra (<i>Naja haje</i>) crude venom in rats. <i>Acta Tropica</i> , 2015 , 143, 58-65	3.2	24
51	Effect of Melatonin Supplementation on Antioxidant Status and DNA Damage in High Intensity Trained Athletes. <i>International Journal of Sports Medicine</i> , 2017 , 38, 1117-1125	3.6	24
50	Modulation of rat striatal glutamatergic response in search for new neuroprotective agents: evaluation of melatonin and some kynurenine derivatives. <i>Brain Research Bulletin</i> , 1998 , 45, 525-30	3.9	24
49	Contribution of inducible and neuronal nitric oxide synthases to mitochondrial damage and melatonin rescue in LPS-treated mice. <i>Journal of Physiology and Biochemistry</i> , 2017 , 73, 235-244	5	23
48	Synergism between melatonin and atorvastatin against endothelial cell damage induced by lipopolysaccharide. <i>Journal of Pineal Research</i> , 2011 , 51, 324-30	10.4	23
47	Antioxidant defence and inflammatory response in professional road cyclists during a 4-day competition. <i>Journal of Sports Sciences</i> , 2010 , 28, 1047-56	3.6	22
46	The benefits of four weeks of melatonin treatment on circadian patterns in resistance-trained athletes. <i>Chronobiology International</i> , 2015 , 32, 1125-34	3.6	20
45	Identification of mitochondrial deficits and melatonin targets in liver of septic mice by high-resolution respirometry. <i>Life Sciences</i> , 2015 , 121, 158-65	6.8	20
44	Redox status and antioxidant response in professional cyclists during training. <i>European Journal of Sport Science</i> , 2014 , 14, 830-8	3.9	19
43	Synthesis and biological evaluation of indazole derivatives. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 1439-47	6.8	19
42	The Protective Effect of Melatonin Against Age-Associated, Sarcopenia-Dependent Tubular Aggregate Formation, Lactate Depletion, and Mitochondrial Changes. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 1330-1338	6.4	18

41	Cardiological aging in SAM model: effect of chronic treatment with growth hormone. <i>Biogerontology</i> , 2010 , 11, 275-86	4.5	18
40	ERA reduces DMQ/CoQ ratio and rescues the encephalopathic phenotype in mice. <i>EMBO Molecular Medicine</i> , 2019 , 11,	12	18
39	Rapamycin administration is not a valid therapeutic strategy for every case of mitochondrial disease. <i>EBioMedicine</i> , 2019 , 42, 511-523	8.8	17
38	Protective actions of melatonin and growth hormone on the aged cardiovascular system. <i>Hormone Molecular Biology and Clinical Investigation</i> , 2014 , 18, 79-88	1.3	17
37	Effect of clonidine on plasma ACTH, cortisol and melatonin in children. <i>Journal of Pineal Research</i> , 2000 , 29, 48-53	10.4	17
36	Melatonin actions in the heart; more than a hormone. <i>Melatonin Research</i> , 2018 , 1, 21-26	5.1	17
35	Melatonin/Nrf2/NLRP3 Connection in Mouse Heart Mitochondria during Aging. <i>Antioxidants</i> , 2020 , 9,	7.1	17
34	Age-related changes of neuronal responsiveness to melatonin in the striatum of sham-operated and pinealectomized rats. <i>Journal of Pineal Research</i> , 1995 , 19, 79-86	10.4	16
33	A phase II, single-center, double-blind, randomized placebo-controlled trial to explore the efficacy and safety of intravenous melatonin in patients with COVID-19 admitted to the intensive care unit (MelCOVID study): a structured summary of a study protocol for a randomized controlled trial. <i>Trials</i> , 2020 , 21, 699	2.8	16
32	Involvement of plasma miRNAs, muscle miRNAs and mitochondrial miRNAs in the pathophysiology of frailty. <i>Experimental Gerontology</i> , 2019 , 124, 110637	4.5	15
31	Protective effects of synthetic kynurenines on 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced parkinsonism in mice. <i>Brain Research Bulletin</i> , 2011 , 85, 133-40	3.9	15
30	Synthesis and iNOS/nNOS inhibitory activities of new benzoylpyrazoline derivatives. <i>Tetrahedron</i> , 2004 , 60, 4051-4069	2.4	14
29	1,3,4-Thiadiazole derivatives as selective inhibitors of iNOS versus nNOS: Synthesis and structure-activity dependence. <i>European Journal of Medicinal Chemistry</i> , 2012 , 50, 129-39	6.8	13
28	Changes in the redox status and inflammatory response in handball players during one-year of competition and training. <i>Journal of Sports Sciences</i> , 2013 , 31, 1197-207	3.6	13
27	Melatonin reduces oxidative stress because of tooth removal. <i>Journal of Pineal Research</i> , 2007 , 42, 419-20	10.4	13
26	Coronavirus Disease 2019 (COVID-19) and Its Neuroinvasive Capacity: Is It Time for Melatonin?. <i>Cellular and Molecular Neurobiology</i> , 2020 , 1	4.6	13
25	Melatonin alleviates sepsis-induced heart injury through activating the Nrf2 pathway and inhibiting the NLRP3 inflammasome. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2021 , 394, 261-277	3.4	13
24	Early gender differences in the redox status of the brain mitochondria with age: effects of melatonin therapy. <i>Hormone Molecular Biology and Clinical Investigation</i> , 2013 , 16, 91-100	1.3	12

23	Globin gene cluster haplotypes in sickle cell patients from Panama <i>American Journal of Human Biology</i> , 2011 , 23, 377-80	2.7	11
22	Effect of propranolol plus exercise on melatonin and growth hormone levels in children with growth delay. <i>Journal of Pineal Research</i> , 2001 , 30, 75-81	10.4	11
21	In Vivo Determination of Mitochondrial Respiration in 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine-Treated Zebrafish Reveals the Efficacy of Melatonin in Restoring Mitochondrial Normalcy. <i>Zebrafish</i> , 2018 , 15, 15-26	2	11
20	Characterization of melatonin high-affinity binding sites in purified cell nuclei of the hamster (<i>Mesocricetus auratus</i>) hardyian gland. <i>Journal of Pineal Research</i> , 2003 , 34, 202-7	10.4	9
19	Melatonin interaction with magnesium and zinc in the response of the striatum to sensorimotor cortical stimulation in the rat. <i>Journal of Pineal Research</i> , 1998 , 24, 123-9	10.4	8
18	Coenzyme Q10 modulates sulfide metabolism and links the mitochondrial respiratory chain to pathways associated to one carbon metabolism. <i>Human Molecular Genetics</i> , 2020 , 29, 3296-3311	5.6	8
17	Specific binding of melatonin to purified cell nuclei from mammary gland of swiss mice: day-night variations and effect of continuous light. <i>Journal of Pineal Research</i> , 2003 , 34, 297-301	10.4	7
16	Characterization of Nocturnal Ultradian Rhythms of Melatonin in Children with Growth Hormone-Dependent and Independent Growth Delay. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001 , 86, 1181-1187	5.6	6
15	Melatonin Targets Metabolism in Head and Neck Cancer Cells by Regulating Mitochondrial Structure and Function. <i>Antioxidants</i> , 2021 , 10,	7.1	6
14	Reduction in the levels of CoQ biosynthetic proteins is related to an increase in lifespan without evidence of hepatic mitohormesis. <i>Scientific Reports</i> , 2018 , 8, 14013	4.9	6
13	Retinoid-related orphan nuclear receptor alpha (ROR α)-deficient mice display morphological testicular defects. <i>Laboratory Investigation</i> , 2019 , 99, 1835-1849	5.9	5
12	Argan Oil-contained Antioxidants for Human Mitochondria. <i>Natural Product Communications</i> , 2013 , 8, 1934578X1300800	0.9	5
11	Melatonin and beta-endorphin changes in children sensitized to olive and grass pollen after treatment with specific immunotherapy. <i>International Archives of Allergy and Immunology</i> , 2001 , 126, 91-6	3.7	5
10	Melatonin-Induced Oncostasis, Mechanisms and Clinical Relevance. <i>Journal of Integrative Oncology</i> , 2016 , 01,		5
9	The Impact of Melatonin and NLRP3 Inflammasome on the Expression of microRNAs in Aged Muscle. <i>Antioxidants</i> , 2021 , 10,	7.1	5
8	Evaluation of plasma levels of melatonin after midazolam or sodium thiopental anesthesia in children. <i>Journal of Pineal Research</i> , 2002 , 32, 253-6	10.4	4
7	Lack of retinoid acid receptor-related orphan receptor alpha accelerates and melatonin supplementation prevents testicular aging. <i>Aging</i> , 2020 , 12, 12648-12668	5.6	4
6	Effects of some synthetic kynurenines on brain amino acids and nitric oxide after pentylenetetrazole administration to rats. <i>Journal of Pineal Research</i> , 2004 , 36, 267-77	10.4	3

5	Preliminary evidence suggesting that nonmetallic and metallic nanoparticle devices protect against the effects of environmental electromagnetic radiation by reducing oxidative stress and inflammatory status. <i>European Journal of Integrative Medicine</i> , 2016 , 8, 835-840	1.7	2
4	Participation of ACTH1-10 and ACTH4-10 on the melatonin modulation of benzodiazepine receptors in rat cerebral cortex. <i>Experientia</i> , 1995 , 51, 209-12		1
3	Melatonin-doped polymeric nanoparticles reinforce and remineralize radicular dentin: Morpho-histological, chemical and biomechanical studies. <i>Dental Materials</i> , 2021 , 37, 1107-1120	5.7	1
2	The Impact of Melatonin Supplementation and NLRP3 Inflammasome Deletion on Age-Accompanied Cardiac Damage. <i>Antioxidants</i> , 2021 , 10,	7.1	1
1	Melatonin-doped polymeric nanoparticles induce high crystalline apatite formation in root dentin. <i>Dental Materials</i> , 2021 , 37, 1698-1713	5.7	1