Dun-Xian Tan

List of Publications by Year in descending order

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<u> Πιν-Χιλή Τλη</u>

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | One molecule, many derivatives: A never-ending interaction of melatonin with reactive oxygen and nitrogen species?. Journal of Pineal Research, 2007, 42, 28-42. | 3.4 | 1,373 |
| 2 | Melatonin as an antioxidant: under promises but over delivers. Journal of Pineal Research, 2016, 61, 253-278. | 3.4 | 1,126 |
| 3 | Actions of melatonin in the reduction of oxidative stress. Journal of Biomedical Science, 2000, 7, 444-458. | 2.6 | 944 |
| 4 | Chemical and Physical Properties and Potential Mechanisms: Melatonin as a Broad Spectrum Antioxidant and Free Radical Scavenger. Current Topics in Medicinal Chemistry, 2002, 2, 181-197. | 1.0 | 885 |
| 5 | Extrapineal melatonin: sources, regulation, and potential functions. Cellular and Molecular Life Sciences, 2014, 71, 2997-3025. | 2.4 | 766 |
| 6 | Melatonin: an ancient molecule that makes oxygen metabolically tolerable. Journal of Pineal Research, 2015, 59, 403-419. | 3.4 | 751 |
| 7 | Biochemical Reactivity of Melatonin with Reactive Oxygen and Nitrogen Species: A Review of the Evidence. Cell Biochemistry and Biophysics, 2001, 34, 237-256. | 0.9 | 603 |
| 8 | Melatonin: A Multitasking Molecule. Progress in Brain Research, 2010, 181, 127-151. | 0.9 | 520 |
| 9 | Functional roles of melatonin in plants, and perspectives in nutritional and agricultural science. Journal of Experimental Botany, 2012, 63, 577-597. | 2.4 | 487 |
| 10 | Melatonin as a Potent and Inducible Endogenous Antioxidant: Synthesis and Metabolism. Molecules, 2015, 20, 18886-18906. | 1.7 | 476 |
| 11 | Significance of Melatonin in Antioxidative Defense System: Reactions and Products. NeuroSignals, 2000, 9, 137-159. | 0.5 | 470 |
| 12 | Melatonin mitigates mitochondrial malfunction. Journal of Pineal Research, 2005, 38, 1-9. | 3.4 | 464 |
| 13 | Melatonin, hydroxyl radical-mediated oxidative damage, and aging: A hypothesis. Journal of Pineal Research, 1993, 14, 151-168. | 3.4 | 463 |
| 14 | Melatonin as an antioxidant: biochemical mechanisms and pathophysiological implications in humans Acta Biochimica Polonica, 2003, 50, 1129-1146. | 0.3 | 457 |
| 15 | Melatonin: a hormone, a tissue factor, an autocoid, a paracoid, and an antioxidant vitamin. Journal of Pineal Research, 2003, 34, 75-78. | 3.4 | 449 |
| 16 | Mitochondria and chloroplasts as the original sites of melatonin synthesis: a hypothesis related to melatonin's primary function and evolution in eukaryotes. Journal of Pineal Research, 2013, 54, 127-138. | 3.4 | 440 |
| 17 | Kynuramines, metabolites of melatonin and other indoles: the resurrection of an almost forgotten class of biogenic amines. Journal of Pineal Research, 2009, 47, 109-126. | 3.4 | 426 |
| 18 | Comparative physiological, metabolomic, and transcriptomic analyses reveal mechanisms of improved abiotic stress resistance in bermudagrass [Cynodon dactylon (L). Pers.] by exogenous melatonin. Journal of Experimental Botany, 2015, 66, 681-694. | 2.4 | 425 |

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|----|--|-----|-----------|
| 19 | Melatonin directly scavenges hydrogen peroxide: a potentially new metabolic pathway of melatonin biotransformation. Free Radical Biology and Medicine, 2000, 29, 1177-1185. | 1.3 | 396 |
| 20 | Protective effects of melatonin in reducing oxidative stress and in preserving the fluidity of biological membranes: a review. Journal of Pineal Research, 2014, 56, 225-237. | 3.4 | 386 |
| 21 | Melatonin, the circadian multioscillator system and health: the need for detailed analyses of peripheral melatonin signaling. Journal of Pineal Research, 2012, 52, 139-166. | 3.4 | 376 |
| 22 | Melatonin mediates the regulation of ABA metabolism, free-radical scavenging, and stomatal behaviour in two Malus species under drought stress. Journal of Experimental Botany, 2015, 66, 669-680. | 2.4 | 371 |
| 23 | Melatonin as a mitochondria-targeted antioxidant: one of evolution's best ideas. Cellular and Molecular Life Sciences, 2017, 74, 3863-3881. | 2.4 | 369 |
| 24 | Melatonin and the ovary: physiological and pathophysiological implications. Fertility and Sterility, 2009, 92, 328-343. | 0.5 | 363 |
| 25 | Melatonin As a Free Radical Scavenger: Implications for Aging and Age-Related Diseases. Annals of the New York Academy of Sciences, 1994, 719, 1-12. | 1.8 | 343 |
| 26 | Free Radicalâ€Mediated Molecular Damage. Annals of the New York Academy of Sciences, 2001, 939, 200-215. | 1.8 | 341 |
| 27 | A Novel Melatonin Metabolite, Cyclic 3-Hydroxymelatonin: A Biomarker ofin VivoHydroxyl Radical Generation. Biochemical and Biophysical Research Communications, 1998, 253, 614-620. | 1.0 | 339 |
| 28 | Melatonin, a Full Service Anti-Cancer Agent: Inhibition of Initiation, Progression and Metastasis. International Journal of Molecular Sciences, 2017, 18, 843. | 1.8 | 335 |
| 29 | Melatonin biosynthesis in plants: multiple pathways catalyze tryptophan to melatonin in the cytoplasm or chloroplasts. Journal of Pineal Research, 2016, 61, 426-437. | 3.4 | 333 |
| 30 | Melatonin and Reproduction Revisited. Biology of Reproduction, 2009, 81, 445-456. | 1.2 | 320 |
| 31 | High levels of melatonin in the seeds of edible plants. Life Sciences, 2000, 67, 3023-3029. | 2.0 | 319 |
| 32 | Melatonin in walnuts: Influence on levels of melatonin and total antioxidant capacity of blood. Nutrition, 2005, 21, 920-924. | 1.1 | 304 |
| 33 | Melatonin—A Highly Potent Endogenous Radical Scavenger and Electron Donor: New Aspects of the Oxidation Chemistry of this Indole Accessed <i>in vitroa</i> . Annals of the New York Academy of Sciences, 1994, 738, 419-420. | 1.8 | 300 |
| 34 | Nuclear localization of melatonin in different mammalian tissues: Immunocytochemical and radioimmunoassay evidence. Journal of Cellular Biochemistry, 1993, 53, 373-382. | 1.2 | 294 |
| 35 | Phytomelatonin: Assisting Plants to Survive and Thrive. Molecules, 2015, 20, 7396-7437. | 1.7 | 294 |
| 36 | The pineal hormone melatonin inhibits DNA-adduct formation induced by the chemical carcinogen safrole in vivo. Cancer Letters, 1993, 70, 65-71. | 3.2 | 290 |

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|----|---|-----|-----------|
| 37 | Phytomelatonin: a review. Journal of Experimental Botany, 2009, 60, 57-69. | 2.4 | 289 |
| 38 | Melatonin and mitochondrial function. Life Sciences, 2004, 75, 765-790. | 2.0 | 286 |
| 39 | Melatonin: A Mitochondrial Targeting Molecule Involving Mitochondrial Protection and Dynamics. International Journal of Molecular Sciences, 2016, 17, 2124. | 1.8 | 276 |
| 40 | Anti-inflammatory actions of melatonin and its metabolites, N1-acetyl-N2-formyl-5-methoxykynuramine (AFMK) and N1-acetyl-5-methoxykynuramine (AMK), in macrophages. Journal of Neuroimmunology, 2005, 165, 139-149. | 1.1 | 274 |
| 41 | Melatonin delays leaf senescence and enhances salt stress tolerance in rice. Journal of Pineal Research, 2015, 59, 91-101. | 3.4 | 272 |
| 42 | Cardiovascular diseases: protective effects of melatonin. Journal of Pineal Research, 2008, 44, 16-25. | 3.4 | 262 |
| 43 | Alzheimer's disease: pathological mechanisms and the beneficial role of melatonin. Journal of Pineal Research, 2012, 52, 167-202. | 3.4 | 255 |
| 44 | Melatonin: a novel protective agent against oxidative injury of the ischemic/reperfused heart. Cardiovascular Research, 2003, 58, 10-19. | 1.8 | 253 |
| 45 | Melatonin: An Established Antioxidant Worthy of Use in Clinical Trials. Molecular Medicine, 2009, 15, 43-50. | 1.9 | 253 |
| 46 | The changing biological roles of melatonin during evolution: from an antioxidant to signals of darkness, sexual selection and fitness. Biological Reviews, 2010, 85, 607-623. | 4.7 | 252 |
| 47 | Both physiological and pharmacological levels of melatonin reduce DNA adduct formation induced by the carcinogen safrole. Carcinogenesis, 1994, 15, 215-218. | 1.3 | 250 |
| 48 | The Oxidant/Antioxidant Network: Role of Melatonin. NeuroSignals, 1999, 8, 56-63. | 0.5 | 242 |
| 49 | Melatonin in Chinese medicinal herbs. Life Sciences, 2003, 73, 19-26. | 2.0 | 242 |
| 50 | Melatonin and pregnancy in the human. Reproductive Toxicology, 2008, 25, 291-303. | 1.3 | 233 |
| 51 | Melatonin and its potential biological functions in the fruits of sweet cherry. Journal of Pineal Research, 2013, 55, 79-88. | 3.4 | 233 |
| 52 | N1â€acetylâ€N2â€formylâ€5â€methoxykynuramine, a biogenic amine and melatonin metabolite, functions as a potent antioxidant. FASEB Journal, 2001, 15, 1-16. | 0.2 | 232 |
| 53 | Melatonin induces nitric oxide and the potential mechanisms relate to innate immunity against bacterial pathogen infection in <i>Arabidopsis</i> . Journal of Pineal Research, 2015, 59, 102-108. | 3.4 | 222 |
| 54 | Melatonin alleviates acute lung injury through inhibiting the NLRP3 inflammasome. Journal of Pineal Research, 2016, 60, 405-414. | 3.4 | 219 |

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|----|---|-----|-----------|
| 55 | On the significance of an alternate pathway of melatonin synthesis via 5â€methoxytryptamine: comparisons across species. Journal of Pineal Research, 2016, 61, 27-40. | 3.4 | 219 |
| 56 | Pharmacology and Physiology of Melatonin in the Reduction of Oxidative Stress in vivo. NeuroSignals, 2000, 9, 160-171. | 0.5 | 215 |
| 57 | Antioxidant properties of the melatonin metabolite N1-acetyl-5-methoxykynuramine (AMK): scavenging of free radicals and prevention of protein destruction. Redox Report, 2003, 8, 205-213. | 1.4 | 215 |
| 58 | High physiological levels of melatonin in the bile of mammals. Life Sciences, 1999, 65, 2523-2529. | 2.0 | 193 |
| 59 | Melatonin as an antioxidant: physiology versus pharmacology. Journal of Pineal Research, 2005, 39, 215-216. | 3.4 | 193 |
| 60 | Novel rhythms of N 1 â€acetylâ€N 2 â€formylâ€5â€methoxykynuramine and its precursor melatonin in water hyacinth: importance for phytoremediation. FASEB Journal, 2007, 21, 1724-1729. | 0.2 | 192 |
| 61 | Melatonin induces class A1 heatâ€shock factors (<scp>HSFA</scp> 1s) and their possible involvement of thermotolerance in <i>Arabidopsis</i> . Journal of Pineal Research, 2015, 58, 335-342. | 3.4 | 192 |
| 62 | Melatonin: A Versatile Protector against Oxidative DNA Damage. Molecules, 2018, 23, 530. | 1.7 | 192 |
| 63 | The Universal Nature, Unequal Distribution and Antioxidant Functions of Melatonin and Its Derivatives. Mini-Reviews in Medicinal Chemistry, 2013, 13, 373-384. | 1.1 | 191 |
| 64 | Reactive oxygen and nitrogen species and cellular and organismal decline: amelioration with melatonin. Mechanisms of Ageing and Development, 2002, 123, 1007-1019. | 2.2 | 190 |
| 65 | Light at Night, Chronodisruption, Melatonin Suppression, and Cancer Risk: A Review. Critical Reviews in Oncogenesis, 2007, 13, 303-328. | 0.2 | 188 |
| 66 | <i>Arabidopsis</i> serotonin <i>N</i> â€acetyltransferase knockout mutant plants exhibit decreased melatonin and salicylic acid levels resulting in susceptibility to an avirulent pathogen. Journal of Pineal Research, 2015, 58, 291-299. | 3.4 | 185 |
| 67 | Mechanistic and comparative studies of melatonin and classic antioxidants in terms of their interactions with the ABTS cation radical. Journal of Pineal Research, 2003, 34, 249-259. | 3.4 | 178 |
| 68 | Obesity and metabolic syndrome: Association with chronodisruption, sleep deprivation, and melatonin suppression. Annals of Medicine, 2012, 44, 564-577. | 1.5 | 177 |
| 69 | Individual and synergistic antioxidative actions of melatonin: studies with vitamin E, vitamin C, glutathione and desferrrioxamine (desferoxamine) in rat liver homogenates. Journal of Pharmacy and Pharmacology, 2010, 53, 1393-1401. | 1.2 | 166 |
| 70 | lschemia/reperfusion-induced arrhythmias in the isolated rat heart: Prevention by melatonin. Journal of Pineal Research, 1998, 25, 184-191. | 3.4 | 165 |
| 71 | Phytoremediative Capacity of Plants Enriched with Melatonin. Plant Signaling and Behavior, 2007, 2, 514-516. | 1.2 | 164 |
| 72 | Peripheral Reproductive Organ Health and Melatonin: Ready for Prime Time. International Journal of Molecular Sciences, 2013, 14, 7231-7272. | 1.8 | 164 |

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|----|---|-----|-----------|
| 73 | <i><scp>INDOLE</scp>â€3â€<scp>ACETIC ACID INDUCIBLE</scp> 17</i> positively modulates natural leaf senescence through melatoninâ€mediated pathway in <i>Arabidopsis</i> . Journal of Pineal Research, 2015, 58, 26-33. | 3.4 | 164 |
| 74 | Augmentation of indices of oxidative damage in life-long melatonin-deficient rats. Mechanisms of Ageing and Development, 1999, 110, 157-173. | 2.2 | 163 |
| 75 | Melatoninâ€induced neuroprotection after closed head injury is associated with increased brain antioxidants and attenuated lateâ€phase activation of NFâ€îºB and APâ€1. FASEB Journal, 2004, 18, 149-151. | 0.2 | 162 |
| 76 | Melatonin induces the transcripts of <i>CBF/DREB1s</i> and their involvement in both abiotic and biotic stresses in <i>Arabidopsis</i> . Journal of Pineal Research, 2015, 59, 334-342. | 3.4 | 162 |
| 77 | Neurotoxins: Free Radical Mechanisms and Melatonin Protection. Current Neuropharmacology, 2010, 8, 194-210. | 1.4 | 161 |
| 78 | A labelâ€free differential proteomics analysis reveals the effect of melatonin on promoting fruit ripening and anthocyanin accumulation upon postharvest in tomato. Journal of Pineal Research, 2016, 61, 138-153. | 3.4 | 155 |
| 79 | Fundamental Issues Related to the Origin of Melatonin and Melatonin Isomers during Evolution: Relation to Their Biological Functions. International Journal of Molecular Sciences, 2014, 15, 15858-15890. | 1.8 | 153 |
| 80 | Melatonin enhances cold tolerance in droughtâ€primed wildâ€type and abscisic acidâ€deficient mutant barley. Journal of Pineal Research, 2016, 61, 328-339. | 3.4 | 152 |
| 81 | Protective effects of melatonin in experimental free radical-related ocular diseases. Journal of Pineal Research, 2006, 40, 101-109. | 3.4 | 150 |
| 82 | Melatonin and sirtuins: A "notâ€so unexpected―relationship. Journal of Pineal Research, 2017, 62, e12391. | 3.4 | 149 |
| 83 | When Melatonin Gets on Your Nerves: Its Beneficial Actions in Experimental Models of Stroke. Experimental Biology and Medicine, 2005, 230, 104-117. | 1.1 | 148 |
| 84 | Melatonin induces browning of inguinal white adipose tissue in Zucker diabetic fatty rats. Journal of Pineal Research, 2013, 55, 416-423. | 3.4 | 144 |
| 85 | Melatonin reduces prostate cancer cell growth leading to neuroendocrine differentiation via a receptor and PKA independent mechanism. Prostate, 2005, 63, 29-43. | 1.2 | 142 |
| 86 | Melatonin, xanthurenic acid, resveratrol, EGCG, vitamin C and αâ€lipoic acid differentially reduce oxidative DNA damage induced by Fenton reagents: a study of their individual and synergistic actions. Journal of Pineal Research, 2003, 34, 269-277. | 3.4 | 141 |
| 87 | Inhibition of neuronal nitric oxide synthase activity by N1-acetyl-5-methoxykynuramine, a brain metabolite of melatonin. Journal of Neurochemistry, 2006, 98, 2023-2033. | 2.1 | 141 |
| 88 | Caloric restriction, resveratrol and melatonin: Role of SIRT1 and implications for aging and related-diseases. Mechanisms of Ageing and Development, 2015, 146-148, 28-41. | 2.2 | 137 |
| 89 | Role of melatonin in the regulation of autophagy and mitophagy: A review. Molecular and Cellular Endocrinology, 2012, 361, 12-23. | 1.6 | 135 |
| 90 | DNA oxidatively damaged by chromium(III) and H2O2 is protected by the antioxidants melatonin, N1-acetyl-N2-formyl-5-methoxykynuramine, resveratrol and uric acid. International Journal of Biochemistry and Cell Biology, 2001, 33, 775-783. | 1.2 | 134 |

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|-----|--|-----|-----------|
| 91 | Natural Variation in Banana Varieties Highlights the Role of Melatonin in Postharvest Ripening and Quality. Journal of Agricultural and Food Chemistry, 2017, 65, 9987-9994. | 2.4 | 134 |
| 92 | Melatonin. Annals of the New York Academy of Sciences, 2002, 957, 341-344. | 1.8 | 125 |
| 93 | An evolutionary view of melatonin synthesis and metabolism related to its biological functions in plants. Journal of Experimental Botany, 2020, 71, 4677-4689. | 2.4 | 121 |
| 94 | Orally administered melatonin reduces oxidative stress and proinflammatory cytokines induced by amyloid-β peptide in rat brain: a comparative, in vivo study versus vitamin C and E. Journal of Pineal Research, 2003, 35, 80-84. | 3.4 | 120 |
| 95 | Melatonin as a naturally occurring co-substrate of quinone reductase-2, the putative MT3melatonin membrane receptor: hypothesis and significance. Journal of Pineal Research, 2007, 43, 317-320. | 3.4 | 119 |
| 96 | 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. | 3.4 | 119 |
| 97 | Increased levels of oxidatively damaged DNA induced by chromium(III) and H2O2: protection by melatonin and related molecules. Journal of Pineal Research, 2000, 29, 54-61. | 3.4 | 117 |
| 98 | Melatonin as a Pharmacological Agent against Neuronal Loss in Experimental Models of Huntington's Disease, Alzheimer's Disease and Parkinsonism. Annals of the New York Academy of Sciences, 1999, 890, 471-485. | 1.8 | 115 |
| 99 | Melatonin reduces lipid peroxidation and membrane viscosity. Frontiers in Physiology, 2014, 5, 377. | 1.3 | 114 |
| 100 | Melatonin uptake through glucose transporters: a new target for melatonin inhibition of cancer. Journal of Pineal Research, 2015, 58, 234-250. | 3.4 | 114 |
| 101 | What constitutes a physiological concentration of melatonin?. Journal of Pineal Research, 2003, 34, 79-80. | 3.4 | 113 |
| 102 | Role of melatonin in metabolic regulation. Reviews in Endocrine and Metabolic Disorders, 2009, 10, 261-270. | 2.6 | 113 |
| 103 | Beneficial effects of melatonin in cardiovascular disease. Annals of Medicine, 2010, 42, 276-285. | 1.5 | 113 |
| 104 | Comparative metabolomic analysis highlights the involvement of sugars and glycerol in melatonin-mediated innate immunity against bacterial pathogen in Arabidopsis. Scientific Reports, 2015, 5, 15815. | 1.6 | 113 |
| 105 | Melatonin alleviates low <scp>PS</scp> lâ€limited carbon assimilation under elevated <scp>CO</scp> ₂ and enhances the cold tolerance of offspring in chlorophyll <i>>ci>b</i> â€deficient mutant wheat. Journal of Pineal Research, 2018, 64, e12453. | 3.4 | 113 |
| 106 | Protective Effects of Melatonin and Mitochondria-targeted Antioxidants Against Oxidative Stress: A Review. Current Medicinal Chemistry, 2015, 22, 2690-2711. | 1.2 | 112 |
| 107 | Melatonin protects hippocampal neurons in vivo against kainic acid-induced damage in mice. , 1998, 54, 382-389. | | 102 |
| 108 | Melatonin promotes embryonic development and reduces reactive oxygen species in vitrified mouse 2â€cell embryos. Journal of Pineal Research, 2012, 52, 305-311. | 3.4 | 102 |

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|-----|---|-----|-----------|
| 109 | Purslane: a plant source of omega-3 fatty acids and melatonin. Journal of Pineal Research, 2005, 39, 331-332. | 3.4 | 101 |
| 110 | Chronic melatonin treatment prevents age-dependent cardiac mitochondrial dysfunction in senescence-accelerated mice. Free Radical Research, 2007, 41, 15-24. | 1.5 | 99 |
| 111 | Pharmacological utility of melatonin in the treatment of septic shock: experimental and clinical evidence. Journal of Pharmacy and Pharmacology, 2010, 58, 1153-1165. | 1.2 | 98 |
| 112 | Melatonin and Tryptophan Derivatives as Free Radical Scavengers and Antioxidants. Advances in Experimental Medicine and Biology, 1999, 467, 379-387. | 0.8 | 97 |
| 113 | Melatonin combats molecular terrorism at the mitochondrial level. Interdisciplinary Toxicology, 2008, 1, 137-149. | 1.0 | 96 |
| 114 | Melatonin and its metabolites: new findings regarding their production and their radical scavenging actions. Acta Biochimica Polonica, 2007, 54, 1-9. | 0.3 | 95 |
| 115 | Oxidative Damage to Catalase Induced by Peroxyl Radicals: Functional Protection by Melatonin and Other Antioxidants. Free Radical Research, 2003, 37, 543-553. | 1.5 | 93 |
| 116 | Identification of genes for melatonin synthetic enzymes in â€~ <scp>R</scp> ed <scp>F</scp> uji' apple (<i><scp>M</scp>alus domestica <scp>B</scp>orkhcv<scp>R</scp>ed</i>) and their expression and melatonin production during fruit development. Journal of Pineal Research, 2013, 55, 443-451. | 3.4 | 91 |
| 117 | Diabetes and Alzheimer Disease, Two Overlapping Pathologies with the Same Background: Oxidative Stress. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-14. | 1.9 | 91 |
| 118 | Significance of High Levels of Endogenous Melatonin in Mammalian Cerebrospinal Fluid and in the Central Nervous System. Current Neuropharmacology, 2010, 8, 162-167. | 1.4 | 91 |
| 119 | Melatonin reduces oxidative neurotoxicity due to quinolinic acid:. Neuropharmacology, 2000, 39, 507-514. | 2.0 | 90 |
| 120 | Melatonin in Edible Plants (Phytomelatonin): Identification, Concentrations, Bioavailability and Proposed Functions. , 2006, 97, 211-230. | | 86 |
| 121 | Melatonin Improves Waterlogging Tolerance of Malus baccata (Linn.) Borkh. Seedlings by Maintaining Aerobic Respiration, Photosynthesis and ROS Migration. Frontiers in Plant Science, 2017, 08, 483. | 1.7 | 83 |
| 122 | Melatonin Relieves the Neural Oxidative Burden that Contributes to Dementias. Annals of the New York Academy of Sciences, 2004, 1035, 179-196. | 1.8 | 75 |
| 123 | Predominance of 2â€hydroxymelatonin over melatonin in plants. Journal of Pineal Research, 2015, 59, 448-454. | 3.4 | 74 |
| 124 | Melatonin enhances the occurrence of autophagy induced by oxidative stress in <i>Arabidopsis</i> seedlings. Journal of Pineal Research, 2015, 58, 479-489. | 3.4 | 73 |
| 125 | Beneficial actions of melatonin in the management of viral infections: a new use for this "molecular handyman�. Reviews in Medical Virology, 2012, 22, 323-338. | 3.9 | 72 |
| 126 | Clinical relevance of melatonin in ovarian and placental physiology: a review. Gynecological Endocrinology, 2014, 30, 83-89. | 0.7 | 69 |

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|-----|--|-----|-----------|
| 127 | Cyclic-3-hydroxymelatonin (C3HOM), A Potent Antioxidant, Scavenges Free Radicals and Suppresses Oxidative Reactions. Current Medicinal Chemistry, 2014, 21, 1557-1565. | 1.2 | 69 |
| 128 | Role of melatonin in the epigenetic regulation of breast cancer. Breast Cancer Research and Treatment, 2009, 115, 13-27. | 1.1 | 68 |
| 129 | Antioxidant activity of melatonin in Chinese hamster ovarian cells: changes in cellular proliferation and differentiation. Biochemical and Biophysical Research Communications, 2003, 302, 625-634. | 1.0 | 65 |
| 130 | The protective role of endogenous melatonin in carrageenanâ€induced pleurisy in the rat. FASEB Journal, 1999, 13, 1930-1938. | 0.2 | 64 |
| 131 | Cyclic 3-Hydroxymelatonin: A Melatonin Metabolite Generated as a Result of Hydroxyl Radical Scavenging. NeuroSignals, 1999, 8, 70-74. | 0.5 | 64 |
| 132 | Role of melatonin on production and preservation of gametes and embryos: A brief review. Animal Reproduction Science, 2014, 145, 150-160. | 0.5 | 63 |
| 133 | Melatonin identified in meats and other food stuffs: potentially nutritional impact. Journal of Pineal Research, 2014, 57, 213-218. | 3.4 | 63 |
| 134 | INHIBITORY EFFECT OF MELATONIN ON PRODUCTS OF LIPID PEROXIDATION RESULTING FROM CHRONIC ETHANOL ADMINISTRATION. Alcohol and Alcoholism, 1999, 34, 842-850. | 0.9 | 62 |
| 135 | Melatonin's role as a co-adjuvant treatment in colonic diseases: A review. Life Sciences, 2017, 170, 72-81. | 2.0 | 62 |
| 136 | Ebola virus disease: potential use of melatonin as a treatment. Journal of Pineal Research, 2014, 57, 381-384. | 3.4 | 61 |
| 137 | Melatonin reduces lipid peroxidation and tissue edema in cerulein-induced acute pancreatitis in rats. Digestive Diseases and Sciences, 1999, 44, 2257-2262. | 1.1 | 60 |
| 138 | Functional Aspects of Redox Control During Neuroinflammation. Antioxidants and Redox Signaling, 2010, 13, 193-247. | 2.5 | 60 |
| 139 | Emergence of naturally occurring melatonin isomers and their proposed nomenclature. Journal of Pineal Research, 2012, 53, 113-121. | 3.4 | 58 |
| 140 | Actions of melatonin in the reduction of oxidative stress. , 2000, 7, 444. | | 58 |
| 141 | CSF generation by pineal gland results in a robust melatonin circadian rhythm in the third ventricle as an unique light/dark signal. Medical Hypotheses, 2016, 86, 3-9. | 0.8 | 56 |
| 142 | Urinary metabolites and antioxidant products of exogenous melatonin in the mouse. Journal of Pineal Research, 2006, 40, 343-349. | 3.4 | 55 |
| 143 | Critical role of glutathione in melatonin enhancement of tumor necrosis factor and ionizing radiationâ€induced apoptosis in prostate cancer cells in vitro. Journal of Pineal Research, 2008, 45, 258-270. | 3.4 | 55 |
| 144 | Melatonin, Longevity and Health in the Aged: An Assessment. Free Radical Research, 2002, 36, 1323-1329. | 1.5 | 54 |

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|-----|--|-----|-----------|
| 145 | Antioxidant strategies in protection against neurodegenerative disorders. Expert Opinion on Therapeutic Patents, 2003, 13, 1513-1543. | 2.4 | 51 |
| 146 | Kinetics of the neuroinflammation-oxidative stress correlation in rat brain following the injection of fibrillar amyloid-β onto the hippocampus in vivo. Journal of Neuroimmunology, 2004, 150, 20-28. | 1.1 | 51 |
| 147 | Protective effects of melatonin against oxidation of guanine bases in DNA and decreased microsomal membrane fluidity in rat liver induced by whole body ionizing radiation. Molecular and Cellular Biochemistry, 2000, 211, 137-144. | 1.4 | 50 |
| 148 | Interactions between melatonin and nicotinamide nucleotide: NADH preservation in cells and in cellâ€free systems by melatonin. Journal of Pineal Research, 2005, 39, 185-194. | 3.4 | 50 |
| 149 | Effects of Melatonin on the Proliferation and Apoptosis of Sheep Granulosa Cells under Thermal Stress. International Journal of Molecular Sciences, 2014, 15, 21090-21104. | 1.8 | 50 |
| 150 | Melatonin reduces mortality and oxidatively mediated hepatic and renal damage due to diquat treatment. Journal of Pineal Research, 2007, 42, 166-171. | 3.4 | 49 |
| 151 | Melatonin as pharmacologic support in burn patients: A proposed solution to thermal injury–related lymphocytopenia and oxidative damage. Critical Care Medicine, 2007, 35, 1177-1185. | 0.4 | 47 |
| 152 | Melatonin as adjuvant treatment for coronavirus disease 2019 pneumonia patients requiring hospitalization (MAC-19 PRO): a case series. Melatonin Research, 2020, 3, 297-310. | 0.7 | 47 |
| 153 | Melatonin uptake in prostate cancer cells: intracellular transport versus simple passive diffusion. Journal of Pineal Research, 2008, 45, 247-257. | 3.4 | 46 |
| 154 | Melatonin reduces the oxidation of nuclear DNA and membrane lipids induced by the carcinogen δ-aminolevulinic acid. International Journal of Cancer, 2000, 88, 7-11. | 2.3 | 45 |
| 155 | In vivo and in vitro effects of the pineal gland and melatonin on [Ca2++ Mg2+]-dependent ATPase in cardiac sarcolemma. Journal of Pineal Research, 1993, 14, 178-183. | 3.4 | 44 |
| 156 | Melatonin reduces phenylhydrazine-induced oxidative damage to cellular membranes: evidence for the involvement of iron. International Journal of Biochemistry and Cell Biology, 2000, 32, 1045-1054. | 1.2 | 44 |
| 157 | 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. Journal of Pineal Research, 2003, 34, 178-184. | 3.4 | 44 |
| 158 | Phenolic Melatonin-Related Compounds: Their Role as Chemical Protectors against Oxidative Stress. Molecules, 2016, 21, 1442. | 1.7 | 43 |
| 159 | Targeting Host Defense System and Rescuing Compromised Mitochondria to Increase Tolerance against Pathogens by Melatonin May Impact Outcome of Deadly Virus Infection Pertinent to COVID-19. Molecules, 2020, 25, 4410. | 1.7 | 43 |
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