

# Chemiexcitation of melanin derivatives induces DNA pl exposure

Science

347, 842-847

DOI: 10.1126/science.1256022

Citation Report

#	ARTICLE	IF	CITATIONS
1	Nucleotide excision repair deficiency in melanoma in response to UVA. <i>Experimental Hematology and Oncology</i> , 2015, 5, 6.	5.0	20
3	Suntanning with sunscreens: a comparison with sunbed tanning. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2015, 31, 307-314.	1.5	6
4	Commentary: Chemiexcitation of melanin derivatives induces DNA photoproducts long after UV exposure. <i>Frontiers in Physiology</i> , 2015, 6, 276.	2.8	7
5	Ultraviolet Radiation-Induced Cytogenetic Damage in White, Hispanic and Black Skin Melanocytes: A Risk for Cutaneous Melanoma. <i>Cancers</i> , 2015, 7, 1586-1604.	3.7	4
6	Bridging the Gap between the Gas Phase and Solution Phase: Solvent Specific Photochemistry in 4-tert-Butylcatechol. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11989-11996.	2.5	21
7	Melanin Pigments of Fungi. , 2015, , 1-29.		5
8	The dark side of sunlight and melanoma. <i>Science</i> , 2015, 347, 824-824.	12.6	37
10	Reply to: "Nail curing UV lamps: Trivial exposure not cause for public alarm". <i>Journal of the American Academy of Dermatology</i> , 2015, 73, e187.	1.2	0
11	Feasibility of Ionization-Mediated Pathway for Ultraviolet-Induced Melanin Damage. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13288-13293.	2.6	12
12	New Strategies in the Prevention of Actinic Keratosis: A Critical Review. <i>Skin Pharmacology and Physiology</i> , 2015, 28, 281-289.	2.5	34
13	"Fifty Shades" of Black and Red or How Carboxyl Groups Fine Tune Eumelanin and Pheomelanin Properties. <i>International Journal of Molecular Sciences</i> , 2016, 17, 746.	4.1	99
14	Comparação entre a citopatologia por biopsia com agulha fina e a histopatologia no diagnóstico das neoplasias cutâneas e subcutâneas de cães. <i>Pesquisa Veterinária Brasileira</i> , 2016, 36, 197-203.	0.5	2
15	Significance of the Melanocortin 1 and Endothelin B Receptors in Melanocyte Homeostasis and Prevention of Sun-Induced Genotoxicity. <i>Frontiers in Genetics</i> , 2016, 7, 146.	2.3	36
16	Neue Strategien in der Prävention der aktinischen Keratose: Eine kritische Literaturanalyse. <i>Karger Kompass Dermatologie</i> , 2016, 4, 74-82.	0.0	0
17	Faster DNA Repair of Ultraviolet-Induced Cyclobutane Pyrimidine Dimers and Lower Sensitivity to Apoptosis in Human Corneal Epithelial Cells than in Epidermal Keratinocytes. <i>PLoS ONE</i> , 2016, 11, e0162212.	2.5	31
18	Photoprotection versus photodamage: updating an old but still unsolved controversy about melanin. <i>Polymer International</i> , 2016, 65, 1276-1287.	3.1	52
19	Distinctive molecular responses to ultraviolet radiation between keratinocytes and melanocytes. <i>Experimental Dermatology</i> , 2016, 25, 708-713.	2.9	19
20	Photobiological Origins of the Field of Genomic Maintenance. <i>Photochemistry and Photobiology</i> , 2016, 92, 52-60.	2.5	20

#	ARTICLE	IF	CITATIONS
21	Principles and Practice of Photoprotection. , 2016, , .		20
22	UV-induced Melanin Chemiexcitation. Toxicologic Pathology, 2016, 44, 552-554.	1.8	33
23	The effect of white light on normal and malignant murine melanocytes: A link between opsins, clock genes, and melanogenesis. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1119-1133.	4.1	47
24	The Role of DNA Repair in Photoprotection. , 2016, , 377-386.		0
25	The Controversy of Sunscreen Product Exposure: Too Little, Too Much, or Just Right. , 2016, , 125-139.		0
26	Onset of the Electronic Absorption Spectra of Isolated and $\pi$ -Stacked Oligomers of 5,6-Dihydroxyindole: An <i>Ab Initio</i> Study of the Building Blocks of Eumelanin. Journal of Physical Chemistry B, 2016, 120, 3493-3502.	2.6	37
27	Understanding photodermatoses associated with defective DNA repair. Journal of the American Academy of Dermatology, 2016, 75, 855-870.	1.2	16
28	Primary and Secondary Chemoprevention of Malignant Melanoma. American Journal of Clinical Dermatology, 2016, 17, 625-634.	6.7	12
29	Bioinspired Functionalized Melanin Nanovariants with a Range of Properties Provide Effective Color Matched Photoprotection in Skin. Biomacromolecules, 2016, 17, 2912-2919.	5.4	18
30	The dark side of the light: mechanisms of photocarcinogenesis. Clinics in Dermatology, 2016, 34, 563-570.	1.6	39
31	UV and ionizing radiations induced DNA damage, differences and similarities. Radiation Physics and Chemistry, 2016, 128, 92-102.	2.8	57
32	The impact of skin colour on human photobiological responses. Pigment Cell and Melanoma Research, 2016, 29, 607-618.	3.3	82
33	Estradiol differently affects melanin synthesis of malignant and normal melanocytes: a relationship with clock and clock-controlled genes. Molecular and Cellular Biochemistry, 2016, 421, 29-39.	3.1	20
34	The Cutaneous Melanocyte as a Target of Environmental Stressors: Molecular Mechanisms and Opportunities. , 2016, , 175-196.		0
35	Herbal extracts, lichens and biomolecules as natural photo-protection alternatives to synthetic UV filters. A systematic review. FÃ-toterapÃ-Ãç, 2016, 114, 144-162.	2.2	96
36	Sunlight-Induced DNA Damage: Molecular Mechanisms and Photoprotection Strategies. , 2016, , 49-77.		7
37	Enhanced sensitivity of Neil1 <sup>-/-</sup> mice to chronic UVB exposure. DNA Repair, 2016, 48, 43-50.	2.8	11
38	The (6 $\pi$ -4) Dimeric Lesion as a DNA Photosensitizer. ChemPhysChem, 2016, 17, 1979-1982.	2.1	16

#	ARTICLE	IF	CITATIONS
39	The dark side of the light: Phototherapy adverse effects. Clinics in Dermatology, 2016, 34, 556-562.	1.6	32
40	Chemical excitation of electrons: A dark path to melanoma. DNA Repair, 2016, 44, 169-177.	2.8	30
41	Molecular characterisation of cutaneous melanoma: creating a framework for targeted and immune therapies. British Journal of Cancer, 2016, 115, 145-155.	6.4	50
42	Protein oxidation, UVA and human DNA repair. DNA Repair, 2016, 44, 178-185.	2.8	113
43	Tanning beds: Impact on health, and recent regulations. Clinics in Dermatology, 2016, 34, 640-648.	1.6	20
44	Paraquatâ€“Melanin Redox-Cycling: Evidence from Electrochemical Reverse Engineering. ACS Chemical Neuroscience, 2016, 7, 1057-1067.	3.5	20
45	Roles of reactive oxygen species in <scp>UVA</scp>-induced oxidation of 5,6â€“dihydroxyindoleâ€“2â€“carboxylic acidâ€“melanin as studied by differential spectrophotometric method. Pigment Cell and Melanoma Research, 2016, 29, 340-351.	3.3	38
46	Infrared A radiation promotes survival of human melanocytes carrying ultraviolet radiationâ€“induced DNA damage. Experimental Dermatology, 2016, 25, 447-452.	2.9	18
47	Photosensitivity of murine skin greatly depends on the genetic background: clinically relevant dose as a new measure to replace minimal erythema dose in mouse studies. Experimental Dermatology, 2016, 25, 519-525.	2.9	6
48	Examining the differences in current regulatory processes for sunscreens and proposed safety assessment paradigm. Regulatory Toxicology and Pharmacology, 2016, 79, 125-141.	2.7	10
49	Daily, seasonal, and latitudinal variations in solar ultraviolet <scp>A</scp> and <scp>B</scp> radiation in relation to vitamin <scp>D</scp> production and risk for skin cancer. International Journal of Dermatology, 2016, 55, e23-8.	1.0	42
50	The Growing Burden of Invasive Melanoma: Projections of Incidence Rates and Numbers of New Cases in Six Susceptible Populations through 2031. Journal of Investigative Dermatology, 2016, 136, 1161-1171.	0.7	450
51	Unanticipated role of melanin in causing carcinogenic cyclobutane pyrimidine dimers. Molecular and Cellular Oncology, 2016, 3, e1033588.	0.7	14
52	Divergence of cAMP signalling pathways mediating augmented nucleotide excision repair and pigment induction in melanocytes. Experimental Dermatology, 2017, 26, 577-584.	2.9	8
53	Sunlight damage to cellular DNA: Focus on oxidatively generated lesions. Free Radical Biology and Medicine, 2017, 107, 110-124.	2.9	279
54	Challenges in photoprotection: Introduction. Journal of the American Academy of Dermatology, 2017, 76, S89-S90.	1.2	1
55	Pheomelanin content of cultured human melanocytes from lightly and darkly pigmented skin: A pyrolysis-gas chromatography/tandem mass spectrometry study. Journal of Analytical and Applied Pyrolysis, 2017, 124, 349-354.	5.5	9
56	Melanin Pigments of Fungi. , 2017, , 263-291.		50

#	ARTICLE	IF	CITATIONS
57	Precision medicine driven by cancer systems biology. <i>Cancer and Metastasis Reviews</i> , 2017, 36, 91-108.	5.9	38
58	UV adaptation: Pigmentation and protection against overexposure. <i>Experimental Dermatology</i> , 2017, 26, 557-562.	2.9	32
59	Further assessment of exome-wide UVR footprints in melanoma and their possible relevance. <i>Molecular Carcinogenesis</i> , 2017, 56, 1673-1679.	2.7	2
60	Prevention of DNA damage in human skin by topical sunscreens. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2017, 33, 135-142.	1.5	44
61	Light-independent pro-inflammatory and pro-oxidant effects of purified human hair melanins on keratinocyte cell cultures. <i>Experimental Dermatology</i> , 2017, 26, 592-594.	2.9	11
62	UVA radiation augments cytotoxic activity of psoralens in melanoma cells. <i>International Journal of Radiation Biology</i> , 2017, 93, 734-739.	1.8	14
63	Paracrine regulation of melanocyte genomic stability: a focus on nucleotide excision repair. <i>Pigment Cell and Melanoma Research</i> , 2017, 30, 284-293.	3.3	8
64	A Multitarget Approach toward the Development of 8-Substituted Purines for Photoprotection and Prevention of UV-Related Damage. <i>ChemMedChem</i> , 2017, 12, 760-769.	3.2	4
65	Oxidative Stress. <i>Annual Review of Biochemistry</i> , 2017, 86, 715-748.	11.1	2,180
66	Mimicking Melanosomes: Polydopamine Nanoparticles as Artificial Microparasols. <i>ACS Central Science</i> , 2017, 3, 564-569.	11.3	118
67	Nrf2 in keratinocytes modulates UVB-induced DNA damage and apoptosis in melanocytes through MAPK signaling. <i>Free Radical Biology and Medicine</i> , 2017, 108, 918-928.	2.9	64
68	Redox-Redux and NADPH Oxidase (NOX): Even More Complicated than We Thought It Might Be. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1208-1210.	0.7	10
69	Facial skin photoaging and development of hyperpigmented spots from children to middle-aged Japanese woman. <i>Skin Research and Technology</i> , 2017, 23, 613-618.	1.6	23
70	Atomic psychiatry? An essay. <i>Australasian Psychiatry</i> , 2017, 25, 507-509.	0.7	2
71	Sustainability of Environmental-Assisted Energy Transfer in Quantum Photobiological Complexes. <i>Annalen Der Physik</i> , 2017, 529, 1600185.	2.4	12
72	Indications of $5\pi^2$ to $3\pi^2$ Interbase Electron Transfer as the First Step of Pyrimidine Dimer Formation Probed by a Dinucleotide Analog. <i>Chemistry - A European Journal</i> , 2017, 23, 7526-7537.	3.3	8
73	Blue light-induced oxidative stress in live skin. <i>Free Radical Biology and Medicine</i> , 2017, 108, 300-310.	2.9	140
74	Current challenges in photoprotection. <i>Journal of the American Academy of Dermatology</i> , 2017, 76, S91-S99.	1.2	60

#	ARTICLE	IF	CITATIONS
75	Autophagy in <scp>UV</scp> Damage Response. Photochemistry and Photobiology, 2017, 93, 943-955.	2.5	56
76	A Phase II Randomized Placebo-Controlled Trial of Oral <i>N</i>-acetylcysteine for Protection of Melanocytic Nevi against UV-Induced Oxidative Stress <i>In Vivo</i>. Cancer Prevention Research, 2017, 10, 36-44.	1.5	20
77	Oxidatively-generated damage to DNA and proteins mediated by photosensitized UVA. Free Radical Biology and Medicine, 2017, 107, 101-109.	2.9	90
78	Spectroelectrochemical Reverse Engineering Demonstrates That Melanin's Redox and Radical Scavenging Activities Are Linked. Biomacromolecules, 2017, 18, 4084-4098.	5.4	63
79	Induction of retinal-dependent calcium influx in human melanocytes by <scp>UVA</scp> or <scp>UVB</scp> radiation contributes to the stimulation of melanosome transfer. Cell Proliferation, 2017, 50, .	5.3	29
80	EPAC-RAP1 Axis-Mediated Switch in the Response of Primary and Metastatic Melanoma to Cyclic AMP. Molecular Cancer Research, 2017, 15, 1792-1802.	3.4	18
81	Palmitoylation-dependent activation of MC1R prevents melanomagenesis. Nature, 2017, 549, 399-403.	27.8	143
82	Delivery of antioxidant enzymes for prevention of ultraviolet irradiation-induced epidermal damage. Journal of Dermatological Science, 2017, 88, 373-375.	1.9	7
83	FOX and ETS family transcription factors regulate the pigment cell lineage in planarians. Development (Cambridge), 2017, 144, 4540-4551.	2.5	22
84	UVB radiation represses CYLD expression in melanocytes. Oncology Letters, 2017, 14, 7262-7268.	1.8	0
85	Four-membered cyclic peroxides: Carriers of chemical energy. Journal of Physical Organic Chemistry, 2017, 30, e3725.	1.9	44
86	Skin Aging and Health. , 2017, , 551-562.		0
87	DNA Damage and Repair in Skin Aging. , 2017, , 629-640.		0
88	Hormonal Regulation of the Repair of UV Photoproducts in Melanocytes by the Melanocortin Signaling Axis. Photochemistry and Photobiology, 2017, 93, 245-258.	2.5	7
89	Prevalence of photoprotection and its associated factors in risk group for skin cancer in Teresina, Piauí: Anais Brasileiros De Dermatologia, 2017, 92, 206-210.	1.1	5
90	Impact of Age and Insulin-Like Growth Factor-1 on DNA Damage Responses in UV-Irradiated Human Skin. Molecules, 2017, 22, 356.	3.8	41
91	Melanoma Metamorphoses: Advances in Biology and Therapy. Journal of Cancer Science & Therapy, 2017, 09, .	1.7	2
92	Roles of UVA radiation and DNA damage responses in melanoma pathogenesis. Environmental and Molecular Mutagenesis, 2018, 59, 438-460.	2.2	96

#	ARTICLE	IF	CITATIONS
93	Chemi- and Bioluminescence of Cyclic Peroxides. Chemical Reviews, 2018, 118, 6927-6974.	47.7	265
94	Correlated Molecular Structural Motions for Photoprotection after Deep-UV Irradiation. Journal of Physical Chemistry Letters, 2018, 9, 2311-2319.	4.6	18
95	The extended production of UV-induced reactive oxygen species in L929 fibroblasts is attenuated by posttreatment with <i>Arrabidaea chica</i> through scavenging mechanisms. Journal of Photochemistry and Photobiology B: Biology, 2018, 178, 175-181.	3.8	22
96	Melanopsin and rhodopsin mediate UVA-induced immediate pigment darkening: Unravelling the photosensitive system of the skin. European Journal of Cell Biology, 2018, 97, 150-162.	3.6	42
97	Formation of UV-induced DNA damage contributing to skin cancer development. Photochemical and Photobiological Sciences, 2018, 17, 1816-1841.	2.9	276
98	Ultraviolet light and melanoma. Journal of Pathology, 2018, 244, 578-585.	4.5	47
99	How many melanomas might be prevented if more people applied sunscreen regularly?. British Journal of Dermatology, 2018, 178, 140-147.	1.5	34
100	Establishment of Photoaging In Vitro by Repetitive <scp>UVA</scp> Irradiation: Induction of Characteristic Markers of Senescence and its Prevention by <scp>PAPLAL</scp> with Potent Catalase Activity. Photochemistry and Photobiology, 2018, 94, 438-444.	2.5	13
101	Vitamin E inhibits the UVAI induction of "light" and "dark" cyclobutane pyrimidine dimers, and oxidatively generated DNA damage, in keratinocytes. Scientific Reports, 2018, 8, 423.	3.3	48
102	Ultrafast excited state decay of natural UV filters: from intermolecular hydrogen bonds to a conical intersection. Physical Chemistry Chemical Physics, 2018, 20, 15074-15085.	2.8	3
103	Photodynamic therapy does not induce cyclobutane pyrimidine dimers in the presence of melanin. Photodiagnosis and Photodynamic Therapy, 2018, 22, 241-244.	2.6	7
104	Whole-Exome Sequencing of Acquired Nevi Identifies Mechanisms for Development and Maintenance of Benign Neoplasms. Journal of Investigative Dermatology, 2018, 138, 1636-1644.	0.7	43
105	A cancer registry-based analysis on the non-white populations reveals a critical role of the female sex in early-onset melanoma. Cancer Causes and Control, 2018, 29, 405-415.	1.8	10
106	Mechanisms and prevention of <scp>UV</scp>-induced melanoma. Photodermatology Photoimmunology and Photomedicine, 2018, 34, 13-24.	1.5	200
107	Persistence and Tolerance of DNA Damage Induced by Chronic UVB Irradiation of the Human Genome. Journal of Investigative Dermatology, 2018, 138, 405-412.	0.7	21
108	NADPH Oxidases and Their Roles in Skin Homeostasis and Carcinogenesis. Antioxidants and Redox Signaling, 2018, 28, 1238-1261.	5.4	16
109	Photodegradation of Eumelanin and Pheomelanin and Its Pathophysiological Implications. Photochemistry and Photobiology, 2018, 94, 409-420.	2.5	86
110	Elevated cyclic AMP levels promote BRAF/Pten mouse melanoma growth but pCREB is negatively correlated with human melanoma progression. Cancer Letters, 2018, 414, 268-277.	7.2	7

#	ARTICLE	IF	CITATIONS
111	Using Organic Synthesis and Chemical Analysis to Understand the Photochemistry of Spore Photoproduct and Other Pyrimidine Dimers. Synlett, 2018, 29, 15-33.	1.8	2
112	DNA Repair Mechanisms and Initiation in Carcinogenesis: An Update. , 2018, , 47-67.		1
113	The Pro-Oxidant Activity of Pheomelanin is Significantly Enhanced by UVA Irradiation: Benzothiazole Moieties Are More Reactive than Benzothiazine Moieties. International Journal of Molecular Sciences, 2018, 19, 2889.	4.1	31
114	Sun Exposure and Melanoma, Certainties and Weaknesses of the Present Knowledge. Frontiers in Medicine, 2018, 5, 235.	2.6	29
115	Clinical and Biological Characterization of Skin Pigmentation Diversity and Its Consequences on UV Impact. International Journal of Molecular Sciences, 2018, 19, 2668.	4.1	158
116	MC1R: Front and Center in the Bright Side of Dark Eumelanin and DNA Repair. International Journal of Molecular Sciences, 2018, 19, 2667.	4.1	70
117	The UV/Visible Radiation Boundary Region (385â€“405â€“nm) Damages Skin Cells and Induces â€œdarkâ€• Cyclobutane Pyrimidine Dimers in Human Skin in vivo. Scientific Reports, 2018, 8, 12722.	3.3	91
118	To be or not to be Photopigmented, that is the Question. Photochemistry and Photobiology, 2018, 94, 407-408.	2.5	0
119	Hierarchical Microâ€•Nanostructures from Human Hair for Biomedical Applications. Advanced Materials, 2018, 30, e1800836.	21.0	42
120	Acid-alkaline properties of triplet state and radical of kynurenic acid. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 365, 7-12.	3.9	10
121	UVA-induced carbon-centred radicals in lightly pigmented cells detected using ESR spectroscopy. Free Radical Biology and Medicine, 2018, 126, 153-165.	2.9	4
122	Sub-optimal Application of a High SPF Sunscreen Prevents Epidermal DNA Damage in Vivo. Acta Dermato-Venereologica, 2018, 98, 880-887.	1.3	18
123	A Case-Control Study of the Genetic Variability in Reactive Oxygen Speciesâ€•Metabolizing Enzymes in Melanoma Risk. International Journal of Molecular Sciences, 2018, 19, 242.	4.1	10
124	Ultraviolet Detectors Based on Wide Bandgap Semiconductor Nanowire: A Review. Sensors, 2018, 18, 2072.	3.8	222
125	Chemiexcitation and Its Implications for Disease. Trends in Molecular Medicine, 2018, 24, 527-541.	6.7	21
126	Quantifying Direct <scp>DNA</scp> Damage in the Basal Layer of Skin Exposed to <scp>UV</scp> Radiation from Sunbeds. Photochemistry and Photobiology, 2018, 94, 1017-1025.	2.5	23
127	Melanin distribution in human epidermis affords localized protection against DNA photodamage and concurs with skin cancer incidence difference in extreme phototypes. FASEB Journal, 2018, 32, 3700-3706.	0.5	77
128	Sunlight Protection by Vitamin D Compounds. , 2018, , 1055-1075.		2



#	ARTICLE	IF	CITATIONS
129	Reverse Engineering To Characterize Redox Properties: Revealing Melanin's Redox Activity through Mediated Electrochemical Probing. Chemistry of Materials, 2018, 30, 5814-5826.	6.7	36
130	Mechanistic considerations on the wavelength-dependent variations of UVR genotoxicity and mutagenesis in skin: the discrimination of UVA-signature from UV-signature mutation. Photochemical and Photobiological Sciences, 2018, 17, 1861-1871.	2.9	30
131	Ultraviolet radiation-mediated development of cutaneous melanoma: An update. Journal of Photochemistry and Photobiology B: Biology, 2018, 185, 169-175.	3.8	59
132	Soft, stretchable, epidermal sensor with integrated electronics and photochemistry for measuring personal UV exposures. PLoS ONE, 2018, 13, e0190233.	2.5	43
133	Potential cutaneous carcinogenic risk of exposure to UV nail lamp: A review. Photodermatology Photoimmunology and Photomedicine, 2018, 34, 362-365.	1.5	13
134	Mycosporine-Like Amino Acids for Skin Photoprotection. Current Medicinal Chemistry, 2019, 25, 5512-5527.	2.4	99
135	<scp>MITF</scp> and <scp>UV</scp> responses in skin: From pigmentation to addiction. Pigment Cell and Melanoma Research, 2019, 32, 224-236.	3.3	84
136	Characterization of Retinal Pigment Epithelial Melanin and Degraded Synthetic Melanin Using Mass Spectrometry and <i>In Vitro</i> Biochemical Diagnostics. Photochemistry and Photobiology, 2019, 95, 183-191.	2.5	15
137	The Biology of Pigmentation. , 2019, , 21-50.		0
138	Ultraviolet Radiation and Melanoma. , 2019, , 51-62.		0
139	Molecular Genetics of Melanocytic Neoplasia. , 2019, , 123-145.		1
140	Current state of melanoma diagnosis and treatment. Cancer Biology and Therapy, 2019, 20, 1366-1379.	3.4	462
141	Genome-Wide Adductomics Analysis Reveals Heterogeneity in the Induction and Loss of Cyclobutane Thymine Dimers across Both the Nuclear and Mitochondrial Genomes. International Journal of Molecular Sciences, 2019, 20, 5112.	4.1	9
142	Triplet-Induced Lesion Formation at CpT and TpC Sites in DNA. Chemistry - A European Journal, 2019, 25, 15164-15172.	3.3	12
143	Genomic sites hypersensitive to ultraviolet radiation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24196-24205.	7.1	66
144	<p>&lt;p>&gt;Chrysanthemum Morifolium Extract And Ascorbic Acid-2-Glucoside (AA2G) Blend Inhibits UVA-Induced Delayed Cyclobutane Pyrimidine Dimer (CPD) Production In Melanocytes&lt;/p>&lt;p>&gt;. Clinical, Cosmetic and Investigational Dermatology, 2019, Volume 12, 823-832.	1.8	19
145	Impact of ultraviolet radiation on dermal and epidermal DNA damage in a human pigmented bilayered skin substitute. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 2300-2311.	2.7	13
146	Photolyase-Like Catalytic Behavior of CeO <sub>2</sub> . Nano Letters, 2019, 19, 8270-8277.	9.1	70

#	ARTICLE	IF	CITATIONS
147	Anthocyanins from black peanut skin protect against UV-B induced keratinocyte cell and skin oxidative damage through activating Nrf 2 signaling. <i>Food and Function</i> , 2019, 10, 6815-6828.	4.6	28
148	UVA and UVB Photoprotective Capabilities of Topical Formulations Containing Mycosporine-like Amino Acids (MAAs) through Different Biological Effective Protection Factors (BEPFs). <i>Marine Drugs</i> , 2019, 17, 55.	4.6	58
149	Singlet Molecular Oxygen Reactions with Nucleic Acids, Lipids, and Proteins. <i>Chemical Reviews</i> , 2019, 119, 2043-2086.	47.7	404
150	Nanoparticles from Cuttlefish Ink Inhibit Tumor Growth by Synergizing Immunotherapy and Photothermal Therapy. <i>ACS Nano</i> , 2019, 13, 8618-8629.	14.6	141
151	Macroenvironment-gene-microenvironment interactions in ultraviolet radiation-induced melanomagenesis. <i>Advances in Cancer Research</i> , 2019, 144, 1-54.	5.0	14
152	Sunbeds and carcinogenesis: the need for new regulations and restrictions in Europe from the Euromelanoma perspective. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2019, 33, 104-109.	2.4	9
153	Skin Retention of Sorbates from an After Sun Formulation for a Broad Photoprotection. <i>Cosmetics</i> , 2019, 6, 14.	3.3	2
154	Review of Clinical Evidence over 10 Years on Prevention and Treatment of a Film-Forming Medical Device Containing Photolyase in the Management of Field Cancerization in Actinic Keratosis. <i>Dermatology and Therapy</i> , 2019, 9, 259-270.	3.0	22
155	What's New in Photoprotection. <i>Dermatologic Clinics</i> , 2019, 37, 149-157.	1.7	63
156	Melanin processing by keratinocytes: A non-microbial type of host-pathogen interaction?. <i>Traffic</i> , 2019, 20, 301-304.	2.7	7
157	Targeting MC1R depalmitoylation to prevent melanomagenesis in redheads. <i>Nature Communications</i> , 2019, 10, 877.	12.8	48
159	Mycosporine-Like Amino Acids: Making the Foundation for Organic Personalised Sunscreens. <i>Marine Drugs</i> , 2019, 17, 638.	4.6	68
160	DNA damage in human skin and the capacities of natural compounds to modulate the bystander signalling. <i>Open Biology</i> , 2019, 9, 190208.	3.6	21
161	The Effect of Endothelial Cells on UVB-induced DNA Damage and Transformation of Keratinocytes In 3D Polycaprolactone Scaffold Co-culture System. <i>Photochemistry and Photobiology</i> , 2019, 95, 338-344.	2.5	1
162	The potential role of antioxidants in mitigating skin hyperpigmentation resulting from ultraviolet and visible light-induced oxidative stress. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2019, 35, 420-428.	1.5	55
163	Dermatology today and tomorrow: from symptom control to targeted therapy. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2019, 33, 3-36.	2.4	31
164	UV cell stress induces oxidative cyclization of a protective reagent for DNA damage reduction in skin explants. <i>Free Radical Biology and Medicine</i> , 2019, 134, 133-138.	2.9	12
165	Photobleaching of pheomelanin increases its phototoxic potential: Physicochemical studies of synthetic pheomelanin subjected to aerobic photolysis. <i>Pigment Cell and Melanoma Research</i> , 2019, 32, 359-372.	3.3	16

#	ARTICLE	IF	CITATIONS
166	ATR/Chk1 Pathway is Activated by Oxidative Stress in Response to UVA Light in Human Xeroderma Pigmentosum Variant Cells. Photochemistry and Photobiology, 2019, 95, 345-354.	2.5	8
167	Visible light accelerates the ultraviolet A-induced degradation of eumelanin and pheomelanin. Pigment Cell and Melanoma Research, 2019, 32, 441-447.	3.3	12
168	Flexible Hybrid Electronics for Digital Healthcare. Advanced Materials, 2020, 32, e1902062.	21.0	345
169	Acetyl zingerone: An efficacious multifunctional ingredient for continued protection against ongoing DNA damage in melanocytes after sun exposure ends. International Journal of Cosmetic Science, 2020, 42, 36-45.	2.6	16
170	Suboptimal UVA attenuation by broad spectrum sunscreens under outdoor solar conditions contributes to lifetime UVA burden. Photodermatology Photoimmunology and Photomedicine, 2020, 36, 42-52.	1.5	5
171	Targeting virulence factors as an antimicrobial approach: Pigment inhibitors. Medicinal Research Reviews, 2020, 40, 293-338.	10.5	18
172	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. Angewandte Chemie, 2020, 132, 1661-1669.	2.0	2
173	The impact of solar ultraviolet radiation on fish: Immunomodulation and photoprotective strategies. Fish and Fisheries, 2020, 21, 104-119.	5.3	14
174	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. Angewandte Chemie - International Edition, 2020, 59, 1644-1652.	13.8	21
175	Ultraviolet radiation and cutaneous melanoma: a historical perspective. Melanoma Research, 2020, 30, 113-125.	1.2	20
176	Nutritional protection against photooxidative stress in human skin and eye. , 2020, , 389-402.		2
177	Redox Activities of Melanins Investigated by Electrochemical Reverse Engineering: Implications for their Roles in Oxidative Stress. Journal of Investigative Dermatology, 2020, 140, 537-543.	0.7	20
178	Insights and controversies on sunscreen safety. Critical Reviews in Toxicology, 2020, 50, 707-723.	3.9	11
179	Adaptive redox homeostasis in cutaneous melanoma. Redox Biology, 2020, 37, 101753.	9.0	37
180	High Responsivity and Speed of 3D Graphene/InGaAs/InAs/InAlAs/InSb/InP HEMT Photodetector. Journal of Electronic Materials, 2020, 49, 7479-7485.	2.2	1
181	Genetic variants in TKT and DERA in the nicotinamide adenine dinucleotide phosphate pathway predict melanoma survival. European Journal of Cancer, 2020, 136, 84-94.	2.8	3
182	Bio-Applications of Multifunctional Melanin Nanoparticles: From Nanomedicine to Nanocosmetics. Nanomaterials, 2020, 10, 2276.	4.1	42
183	Cross talk between calcium and ROS regulate the UVA-induced melanin response in human melanocytes. FASEB Journal, 2020, 34, 11605-11623.	0.5	20

#	ARTICLE	IF	CITATIONS
184	Regulating the absorption spectrum of polydopamine. <i>Science Advances</i> , 2020, 6, .	10.3	254
185	All You Need Is Light. Photorepair of UV-Induced Pyrimidine Dimers. <i>Genes</i> , 2020, 11, 1304.	2.4	24
186	Electronic structure investigation of wide band gap semiconductorsâ€”Mg <sub>2</sub> PN <sub>3</sub> and Zn <sub>2</sub> PN <sub>3</sub> : experiment and theory. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 405504.	1.8	2
187	Rethinking Causation for Dataâ€”Intensive Biology: Constraints, Cancellations, and Quantized Organisms. <i>BioEssays</i> , 2020, 42, e1900135.	2.5	3
188	Nanocosmetics for broadband light protection sun care products. , 2020, , 185-203.		0
189	Oxidative Stress and Genotoxicity in Melanoma Induction: Impact on Repair Rather Than Formation of DNA Damage?. <i>Photochemistry and Photobiology</i> , 2020, 96, 962-972.	2.5	17
190	Ultra-thin GaN nanostructures based self-powered ultraviolet photodetector via non-homogeneous Au-GaN interfaces. <i>Optical Materials</i> , 2020, 102, 109820.	3.6	36
191	Mechanisms of UV-induced mutations and skin cancer. <i>Genome Instability &amp; Disease</i> , 2020, 1, 99-113.	1.1	53
192	Deciphering UVâ€”Induced DNA Damage Responses to Prevent and Treat Skin Cancer. <i>Photochemistry and Photobiology</i> , 2020, 96, 478-499.	2.5	47
193	&lt;p&gt;A Treatment Combination of Peels, Oral Antioxidants, and Topical Therapy for Refractory Melasma: A Report of 4 Cases&lt;/p&gt;. <i>Clinical, Cosmetic and Investigational Dermatology</i> , 2020, Volume 13, 209-213.	1.8	8
194	&lt;p&gt;Melanogenic Difference Consideration in Ethnic Skin Type: A Balance Approach Between Skin Brightening Applications and Beneficial Sun Exposure&lt;/p&gt;. <i>Clinical, Cosmetic and Investigational Dermatology</i> , 2020, Volume 13, 215-232.	1.8	13
195	JNK suppresses melanogenesis by interfering with CREB-regulated transcription coactivator 3-dependent MITF expression. <i>Theranostics</i> , 2020, 10, 4017-4029.	10.0	34
196	Radical-Enriched Artificial Melanin. <i>Chemistry of Materials</i> , 2020, 32, 5759-5767.	6.7	17
197	Dysregulation of MITF Leads to Transformation in MC1R-Defective Melanocytes. <i>Cancers</i> , 2020, 12, 1719.	3.7	7
198	Selenomelanin: An Abiotic Selenium Analogue of Pheomelanin. <i>Journal of the American Chemical Society</i> , 2020, 142, 12802-12810.	13.7	34
199	Role of Melanin Chemiexcitation in Melanoma Progression and Drug Resistance. <i>Frontiers in Oncology</i> , 2020, 10, 1305.	2.8	21
200	The Photoinitiator Lithium Phenyl (2,4,6-Trimethylbenzoyl) Phosphinate with Exposure to 405 nm Light Is Cytotoxic to Mammalian Cells but Not Mutagenic in Bacterial Reverse Mutation Assays. <i>Polymers</i> , 2020, 12, 1489.	4.5	32
201	Protective Effect of the Aqueous Extract of <i>Deschampsia antarctica</i> (EDAFENCEÂ®) on Skin Cells against Blue Light Emitted from Digital Devices. <i>International Journal of Molecular Sciences</i> , 2020, 21, 988.	4.1	20

#	ARTICLE	IF	CITATIONS
202	&lt;p&gt;Consumption of Polyphenols in Coffee and Green Tea Alleviates Skin Photoaging in Healthy Japanese Women&lt;/p&gt;. Clinical, Cosmetic and Investigational Dermatology, 2020, Volume 13, 165-172.	1.8	11
203	Melanin. Current Biology, 2020, 30, R142-R143.	3.9	59
204	Light or Dark Pigmentation of Engineered Skin Substitutes Containing Melanocytes Protects Against Ultraviolet Light-Induced DNA Damage In Vivo. Journal of Burn Care and Research, 2020, 41, 751-760.	0.4	14
205	Riboflavin Plays a Pivotal Role in the UVA-Induced Cytotoxicity of Fibroblasts as a Key Molecule in the Production of H2O2 by UVA Radiation in Collaboration with Amino Acids and Vitamins. International Journal of Molecular Sciences, 2020, 21, 554.	4.1	11
206	Administration of Apple Polyphenol Supplements for Skin Conditions in Healthy Women: A Randomized, Double-Blind, Placebo-Controlled Clinical Trial. Nutrients, 2020, 12, 1071.	4.1	15
207	Photoprotection and Skin Pigmentation: Melanin-Related Molecules and Some Other New Agents Obtained from Natural Sources. Molecules, 2020, 25, 1537.	3.8	135
208	Solar ultraviolet&lt;sup>A</sup>-induced <sup>DNA</sup> damage response: Melanocytes story in transformation to environmental melanomagenesis. Environmental and Molecular Mutagenesis, 2020, 61, 736-751.	2.2	22
209	The use of tissue&lt;sup>Engineered</sup> skin to demonstrate the negative effect of CXCL5 on epidermal ultraviolet radiation&lt;sup>induced</sup> cyclobutane pyrimidine dimer repair efficiency. British Journal of Dermatology, 2021, 184, 123-132.	1.5	2
210	Aspirin Protects Melanocytes and Keratinocytes against UVB-Induced DNA Damage In&lt;sup>Vivo</sup>. Journal of Investigative Dermatology, 2021, 141, 132-141.e3.	0.7	18
211	Nanomaterials fusing with the skin: Alpha-tocopherol phosphate delivery into the viable epidermis to protect against ultraviolet radiation damage. International Journal of Pharmaceutics, 2021, 594, 120000.	5.2	9
212	Aspirin&lt;sup>TM</sup>'s Protective Effects Highlight the Role of Inflammation in UV-Induced Skin Damage and Carcinogenesis. Journal of Investigative Dermatology, 2021, 141, 10-11.	0.7	1
213	A deep dive into UV-based phototherapy: Mechanisms of action and emerging molecular targets in inflammation and cancer. , 2021, 222, 107784.		52
214	Solution-processed and self-powered photodetector in vertical architecture using mixed-halide perovskite for highly sensitive UVC detection. Journal of Materials Chemistry A, 2021, 9, 1269-1276.	10.3	54
215	<sup>I</sup>-tryptophan Interactions with the Horseradish Peroxidase&lt;sup>Catalyzed</sup> Generation of Triplet Acetone. Photochemistry and Photobiology, 2021, 97, 327-334.	2.5	3
216	Genome-wide signatures of mammalian skin covering evolution. Science China Life Sciences, 2021, 64, 1765-1780.	4.9	5
217	Dark cyclobutane pyrimidine dimers are formed in the epidermis of Fitzpatrick skin types I/II and VI in vivo after exposure to solar&lt;sup>simulated</sup> radiation. Pigment Cell and Melanoma Research, 2021, 34, 575-584.	3.3	16
218	How Tryptophan Oxidation Arises by &lt;sup>Dark</sup>-Photoreactions from Chemiexcited Triplet Acetone. Photochemistry and Photobiology, 2021, 97, 456-459.	2.5	1
219	Betalains as Antioxidants. Reference Series in Phytochemistry, 2021, , 1-44.	0.4	3

#	ARTICLE	IF	CITATIONS
220	Betalains as Antioxidants. Reference Series in Phytochemistry, 2021, , 1-44.	0.4	2
221	Melanins in Vertebrates. , 2021, , 45-89.		4
222	Human ultra-weak photon emission as non-invasive spectroscopic tool for diagnosis of internal states – A review. Journal of Photochemistry and Photobiology B: Biology, 2021, 216, 112141.	3.8	18
223	Neuropeptides and neurohormones in immune, inflammatory and cellular responses to ultraviolet radiation. Acta Physiologica, 2021, 232, e13644.	3.8	9
224	The Aqueous Extract of Polypodium leucotomos (Fernblock®) Regulates Opsin 3 and Prevents Photooxidation of Melanin Precursors on Skin Cells Exposed to Blue Light Emitted from Digital Devices. Antioxidants, 2021, 10, 400.	5.1	18
225	The constraints of racialization: How classification and valuation hinder scientific research on human variation. American Journal of Physical Anthropology, 2021, 175, 376-386.	2.1	9
226	Cells to Surgery Quiz: March 2021. Journal of Investigative Dermatology, 2021, 141, e33-e36.	0.7	0
227	The dark side of daylight: photoaging and the tumor microenvironment in melanoma progression. Journal of Clinical Investigation, 2021, 131, .	8.2	17
228	Biological function following radical photo-polymerization of biomedical polymers and surrounding tissues: Design considerations and cellular risk factors. Applied Physics Reviews, 2021, 8, 011301.	11.3	13
229	The effect of flanking bases on direct and triplet sensitized cyclobutane pyrimidine dimer formation in DNA depends on the dipyrimidine, wavelength and the photosensitizer. Nucleic Acids Research, 2021, 49, 4266-4280.	14.5	20
230	Flavonoids increase melanin production and reduce proliferation, migration and invasion of melanoma cells by blocking endolysosomal/melanosomal TPC2. Scientific Reports, 2021, 11, 8515.	3.3	34
231	Production and properties of non-cytotoxic pyomelanin by laccase and comparison to bacterial and synthetic pigments. Scientific Reports, 2021, 11, 8538.	3.3	14
232	Wavelengths and temporal effects on the response of mammalian cells to UV radiation: Limitations of action spectra illustrated by genotoxicity. Journal of Photochemistry and Photobiology B: Biology, 2021, 217, 112169.	3.8	2
233	Photoreactivity of Hair Melanin from Different Skin Phototypes – Contribution of Melanin Subunits to the Pigments Photoreactive Properties. International Journal of Molecular Sciences, 2021, 22, 4465.	4.1	5
234	Visible light. Part I: Properties and cutaneous effects of visible light. Journal of the American Academy of Dermatology, 2021, 84, 1219-1231.	1.2	76
235	Melanin Transfer and Fate within Keratinocytes in Human Skin Pigmentation. Integrative and Comparative Biology, 2021, 61, 1546-1555.	2.0	32
236	The Î±-melanocyte-stimulating hormone/melanocortin-1 receptor interaction: A driver of pleiotropic effects beyond pigmentation. Pigment Cell and Melanoma Research, 2021, 34, 748-761.	3.3	23
237	Long-wavelength UVA enhances UVB-induced cell death in cultured keratinocytes: DSB formation and suppressed survival pathway. Photochemical and Photobiological Sciences, 2021, 20, 639-652.	2.9	8

#	ARTICLE	IF	CITATIONS
238	Conjunctival melanoma: New insights in tumour genetics and immunology, leading to new therapeutic options. Progress in Retinal and Eye Research, 2022, 86, 100971.	15.5	35
239	Visible light and human skin pigmentation: The importance of skin phototype. Experimental Dermatology, 2021, 30, 1324-1331.	2.9	17
240	Prediction of Photolysis Kinetics of Viral Genomes under UV254 Irradiation to Estimate Virus Infectivity Loss. Water Research, 2021, 198, 117165.	11.3	10
241	Acridones: Strongly Emissive HIGHrISC Fluorophores. Journal of Physical Chemistry Letters, 2021, 12, 5703-5709.	4.6	6
242	The Impact of the Circadian Clock on Skin Physiology and Cancer Development. International Journal of Molecular Sciences, 2021, 22, 6112.	4.1	21
243	Photosensitization Reactions of Biomolecules: Definition, Targets and Mechanisms. Photochemistry and Photobiology, 2021, 97, 1456-1483.	2.5	76
244	Circadian clock protein BMAL1 regulates melanogenesis through <i>MITF</i> in melanoma cells. Pigment Cell and Melanoma Research, 2021, 34, 955-965.	3.3	15
245	Time kinetics of cyclobutane pyrimidine dimer formation by narrowband and broadband UVB irradiation. Journal of Dermatological Science, 2021, 103, 151-155.	1.9	7
246	Endolysosomal Cation Channels and MITF in Melanocytes and Melanoma. Biomolecules, 2021, 11, 1021.	4.0	12
247	Interaction of Melanin with Metal Ions Modulates Their Cytotoxic Potential. Applied Magnetic Resonance, 2022, 53, 105-121.	1.2	16
248	Oxidative stress in the skin: Impact and related protection. International Journal of Cosmetic Science, 2021, 43, 495-509.	2.6	99
249	Understanding the way eumelanin works: A unique example of properties and skills driven by molecular heterogeneity. Polymer, 2021, 229, 123952.	3.8	5
250	Genome-wide mapping of genomic DNA damage: methods and implications. Cellular and Molecular Life Sciences, 2021, 78, 6745-6762.	5.4	15
251	NNT mediates redox-dependent pigmentation via a UVB- and MITF-independent mechanism. Cell, 2021, 184, 4268-4283.e20.	28.9	35
252	Benzamide derivative radiotracers targeting melanin for melanoma imaging and therapy: Preclinical/clinical development and combination with other treatments. , 2021, 224, 107829.		12
253	Effect of ultraviolet radiation on the Nrf2 signaling pathway in skin cells. International Journal of Radiation Biology, 2021, 97, 1383-1403.	1.8	31
254	Azobenzene-containing liquid crystalline composites for robust ultraviolet detectors based on conversion of illuminance-mechanical stress-electric signals. Nature Communications, 2021, 12, 4875.	12.8	37
255	Ability of the Putative Decomposition Products of 2,3-dioxetanes of Indoles to Photosensitize Cyclobutane Pyrimidine Dimer (CPD) Formation and its Implications for the "Dark" (Chemisensitized) Pathway to CPDs in Melanocytes <sup>&lt;sup&gt;â€&lt;/sup&gt;</sup> . Photochemistry and Photobiology, 2022, 98, 442-454.	2.5	6



#	ARTICLE	IF	CITATIONS
256	5-Aminolevulinic acid: A matter of life and caveats. Journal of Photochemistry and Photobiology, 2021, 7, 100036.	2.5	9
259	The Photophysics and Photochemistry of Melanin-Like Nanomaterials Depend on Morphology and Structure. Chemistry - A European Journal, 2021, 27, 16309-16319.	3.3	10
260	Recent advances in the discovery of novel marine natural products and mycosporine-like amino acid UV-absorbing compounds. Applied Microbiology and Biotechnology, 2021, 105, 7053-7067.	3.6	18
261	Chronic UV radiation-induced ROR $\gamma$ t+ IL-22-producing lymphoid cells are associated with mutant KC clonal expansion. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
262	Melanin, lipofuscin and the effects of visible light in the skin. Journal of Photochemistry and Photobiology, 2021, 7, 100044.	2.5	12
263	Mitigating Visible Light and Long Wavelength UVA1-induced Effects with Topical Antioxidants. Photochemistry and Photobiology, 2022, 98, 455-460.	2.5	13
264	Melanogenesis and Melasma Treatment. Cosmetics, 2021, 8, 82.	3.3	13
265	Mycosporine-like amino acids: Algal metabolites shaping the safety and sustainability profiles of commercial sunscreens. Algal Research, 2021, 58, 102425.	4.6	16
266	Sunscreen-Based Skin Protection Against Solar Insult: Molecular Mechanisms and Opportunities. , 2019, , 377-404.		3
267	The Cutaneous Circadian Clock as a Determinant of Environmental Vulnerability: Molecular Pathways and Chrono-pharmacological Opportunities. , 2016, , 415-432.		1
268	Melanocortin 1 Receptor (MC1R) as a Global Regulator of Cutaneous UV Responses: Molecular Interactions and Opportunities for Melanoma Prevention. , 2016, , 155-174.		1
269	Carcinogenesis: UV Radiation. , 2017, , 887-902.		1
270	UVR and Role of Pigmentation in Skin Aging and Cancer. , 2019, , 59-69.		2
271	Photoprotection: extending lessons learned from studying natural sunscreens to the design of artificial sunscreen constituents. Chemical Society Reviews, 2017, 46, 3770-3791.	38.1	146
272	Ultraviolet B, melanin and mitochondrial DNA: Photo-damage in human epidermal keratinocytes and melanocytes modulated by alpha-melanocyte-stimulating hormone. F1000Research, 2016, 5, 881.	1.6	12
273	Frequent <i>DPH3</i> promoter mutations in skin cancers. Oncotarget, 2015, 6, 35922-35930.	1.8	60
274	Oxidative Stress and Photodynamic Therapy of Skin Cancers: Mechanisms, Challenges and Promising Developments. Antioxidants, 2020, 9, 448.	5.1	38
275	Invisible shield: Review of the corneal epithelium as a barrier to UV radiation, pathogens, and other environmental stimuli. Journal of Ophthalmic and Vision Research, 2017, 12, 305.	1.0	30



#	ARTICLE	IF	CITATIONS
276	CRTC3, a sensor and key regulator for melanogenesis, as a tunable therapeutic target for pigmentary disorders. <i>Theranostics</i> , 2021, 11, 9918-9936.	10.0	8
278	Laboratory testing of sunscreens on the US market finds lower in vitro SPF values than on labels and even less UVA protection. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2022, 38, 224-232.	1.5	8
279	Photo-Induced DNA Damage. , 2014, , 3561-3566.		0
280	Photo-Induced DNA Damage. , 2014, , 1-6.		0
281	Carcinogenesis: UV Radiation. , 2015, , 1-17.		0
282	DNA Damage and Repair in Skin Aging. , 2015, , 1-13.		1
283	Skin Aging and Health. , 2015, , 1-12.		0
284	Cutaneous Oxidative Stress and Aging. , 2015, , 1-27.		0
286	2 Gezondheid, gezondheidsrisico's en volksgezondheid in kaart brengen. , 2016, , 49-89.		0
287	DNA Damage and Repair in Skin Aging. , 2016, , 1-13.		1
288	Cutaneous Oxidative Stress and Aging. , 2017, , 651-676.		0
289	Revisiting Epidermal Melanocytes: Regulation of Their Survival, Proliferation, and Function in Human Skin. , 2017, , 7-38.		1
290	The Biology of Pigmentation. , 2018, , 1-30.		1
291	Ultraviolet Radiation and Melanoma. , 2018, , 1-12.		0
292	Molecular Genetics of Melanocytic Neoplasia. , 2018, , 1-23.		1
293	Anti-aging of the Skin. <i>Oleoscience</i> , 2018, 18, 121-129.	0.0	0
294	Gezondheidsbevordering en gezondheidsvoorlichting. , 2019, , 147-261.		0
295	Chemiexcitation of Melanin and Melanoma Pathogenesis. , 2019, , 79-86.		0

#	ARTICLE	IF	CITATIONS
296	Preventie en persoongecentreerde behandeling. , 2019, , 67-146.		0
297	Gezondheid, gezondheidsrisico's en volksgezondheid in kaart brengen. , 2019, , 31-65.		0
298	Instrument for measurement of singlet oxygen for studies of skin under UVA irradiation. , 2019, , .		0
299	Royal Jelly (Bee Product) Decreases Inflammatory Response in Wistar Rats Induced with Ultraviolet Radiation. Open Access Macedonian Journal of Medical Sciences, 2019, 7, 2723-2727.	0.2	5
300	UV Radiation in DNA Damage and Repair Involving DNA-Photolyases and Cryptochromes. Biomedicines, 2021, 9, 1564.	3.2	28
301	Perspectives on Cyclobutane Pyrimidine Dimers—Rise of the Dark Dimers <sup>&lt;sup&gt;&lt;/sup&gt;</sup> . Photochemistry and Photobiology, 2022, 98, 609-616.	2.5	11
302	The Reactive Oxygen Species Singlet Oxygen, Hydroxy Radicals, and the Superoxide Radical Anion—Examples of Their Roles in Biology and Medicine. Oxygen, 2021, 1, 77-95.	5.0	20
303	Radiazioni solari: aspetti fondamentali. EMC - Cosmetologia Medica E Medicina Degli Inestetismi Cutanei, 2019, 17, 1-11.	0.0	0
304	Xeroderma Pigmentosum: General Aspects and Management. Journal of Personalized Medicine, 2021, 11, 1146.	2.5	13
305	Circadian Rhythm and the Skin: A Review of the Literature. Journal of Clinical and Aesthetic Dermatology, 2019, 12, 42-45.	0.1	12
306	Cutaneous Photoprotection: A Review of the Current Status and Evolving Strategies. Yale Journal of Biology and Medicine, 2020, 93, 55-67.	0.2	19
307	Is Occupational Skin Cancer More Aggressive than Sporadic Skin Cancer?. Mădica, 2020, 15, 155-161.	0.1	0
308	The photoprotective properties of Î±-tocopherol phosphate against long-wave UVA1 (385Ånm) radiation in keratinocytes in vitro. Scientific Reports, 2021, 11, 22400.	3.3	5
309	Topical carvedilol delivery prevents UV-induced skin cancer with negligible systemic absorption. International Journal of Pharmaceutics, 2022, 611, 121302.	5.2	9
310	In-depth examination of hyperproliferative healing in two breeds of <i>Sus scrofa domesticus</i> commonly used for research. Animal Models and Experimental Medicine, 2021, 4, 406-417.	3.3	2
312	Melanin photosensitization by green light reduces melanoma tumor size. Journal of Photochemistry and Photobiology, 2022, 9, 100092.	2.5	3
315	Slip versus Slop: A Head-to-Head Comparison of UV-Protective Clothing to Sunscreen. Cancers, 2022, 14, 542.	3.7	14
316	Polyphenol-based hydrogels: Pyramid evolution from crosslinked structures to biomedical applications and the reverse design. Bioactive Materials, 2022, 17, 49-70.	15.6	64

#	ARTICLE	IF	CITATIONS
317	Photoprotection for all: Current gaps and opportunities. <i>Journal of the American Academy of Dermatology</i> , 2022, 86, S18-S26.	1.2	13
318	UV Protection in the Cornea: Failure and Rescue. <i>Biology</i> , 2022, 11, 278.	2.8	8
319	Triplet-Energy Quenching Functions of Antioxidant Molecules. <i>Antioxidants</i> , 2022, 11, 357.	5.1	13
320	Architecting Silk Protein and Melanin for Photoresponsive and Self-Healable Optoelectronic Skins. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	10
321	Development of a method for isolation of melanin from archival FFPE tissues of human melanoma for structural studies by pyrolysis-gas chromatography-tandem mass spectrometry. <i>Postepy Higieny I Medycyny Doswiadczalnej</i> , 2022, 76, 122-127.	0.1	0
322	Drug/Lead Compound Hydroxymethylation as a Simple Approach to Enhance Pharmacodynamic and Pharmacokinetic Properties. <i>Frontiers in Chemistry</i> , 2021, 9, 734983.	3.6	3
323	Redox-Related Proteins in Melanoma Progression. <i>Antioxidants</i> , 2022, 11, 438.	5.1	12
325	Shedding a New Light on Skin Aging, Iron- and Redox-Homeostasis and Emerging Natural Antioxidants. <i>Antioxidants</i> , 2022, 11, 471.	5.1	21
326	Melanoma, Melanin, and Melanogenesis: The Yin and Yang Relationship. <i>Frontiers in Oncology</i> , 2022, 12, 842496.	2.8	99
327	Effects of Different Light Intensities on the Transcriptome Changes of Duck Retina and Pineal Gland. <i>Poultry Science</i> , 2022, 101, 101819.	3.4	2
328	Polyoxometalates as Potential Next-Generation Metallodrugs in the melanogenesis inhibitor. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	1.2	1
329	Continuous ZnO nanoparticle exposure induces melanoma-like skin lesions in epidermal barrier dysfunction model mice through anti-apoptotic effects mediated by the oxidative stress-activated NF- $\kappa$ B pathway. <i>Journal of Nanobiotechnology</i> , 2022, 20, 111.	9.1	6
332	Spatial proteomics reveals subcellular reorganization in human keratinocytes exposed to UVA light. <i>IScience</i> , 2022, 25, 104093.	4.1	4
333	Formation of Cyclobutane Pyrimidine Dimers after UVA Exposure (Dark-CPDs) Is Inhibited by an Hydrophilic Extract of <i>Polypodium leucotomos</i> . <i>Antioxidants</i> , 2021, 10, 1961.	5.1	11
334	High Melanin Content in Melanoma Cells Contributes to Enhanced <sc>DNA</sc> Damage after Rose Bengal Photosensitization. <i>Photochemistry and Photobiology</i> , 2022, 98, 1355-1364.	2.5	4
336	New insights and advances on pyomelanin production: from microbial synthesis to applications. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2022, , .	3.0	9
337	Boosting the Optical Absorption of Melanin-like Polymers. <i>Macromolecules</i> , 2022, 55, 3493-3501.	4.8	33
338	Direct Visualization of UV-Light on Polymer Composite Films Consisting of Light Emitting Organic Micro Rods and Polydimethylsiloxane. <i>Polymers</i> , 2022, 14, 1846.	4.5	1

#	ARTICLE	IF	CITATIONS
339	The Dark Side of Melanin Secretion in Cutaneous Melanoma Aggressiveness. <i>Frontiers in Oncology</i> , 2022, 12, .	2.8	18
340	Betalains as Antioxidants. <i>Reference Series in Phytochemistry</i> , 2022, , 51-93.	0.4	1
342	All-optical tunable wavelength conversion in opaque nonlinear nanostructures. <i>Nanophotonics</i> , 2022, 11, 4027-4035.	6.0	6
343	Red Light Phototherapy Using Light-Emitting Diodes Inhibits Melanoma Proliferation and Alters Tumor Microenvironments. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	8
344	Differential Induction of Reactive Oxygen Species and Expression of Antioxidant Enzymes in Human Melanocytes Correlate with Melanin Content: Implications on the Response to Solar UV and Melanoma Susceptibility. <i>Antioxidants</i> , 2022, 11, 1204.	5.1	10
345	NRF2 in dermatological disorders: Pharmacological activation for protection against cutaneous photodamage and photodermatitis. <i>Free Radical Biology and Medicine</i> , 2022, 188, 262-276.	2.9	16
346	Ultraviolet Photodetectors Based on Nanometer-Thick Films of the Narrow Band Gap Semiconductor PbS. <i>ACS Applied Nano Materials</i> , 2022, 5, 8894-8901.	5.0	1
347	Graphene quantum dot- sensitized GaP@ZnO nanocomposite for high-performance UV photodetectors. <i>Journal Physics D: Applied Physics</i> , 0, , .	2.8	3
348	Low-Power Operating Aluminum Nitride Nanowire-Film Ultraviolet Photodetector. <i>Journal of Nano Research</i> , 0, 74, 25-34.	0.8	1
350	Bending-Insensitive Intrinsically Flexible Ultraviolet Encoding Devices Based on Piezoelectric Nanogenerator-Supplied Liquid Crystalline Polymer Fabrics. <i>Small</i> , 2022, 18, .	10.0	6
351	3D Bioprinting: An Enabling Technology to Understand Melanoma. <i>Cancers</i> , 2022, 14, 3535.	3.7	6
352	Vegetable-derived indole enhances the melanoma-treating efficacy of chemotherapeutics. <i>Phytotherapy Research</i> , 0, , .	5.8	0
353	The Damaging Effects of Long UVA (UVA1) Rays: A Major Challenge to Preserve Skin Health and Integrity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8243.	4.1	41
354	Non-Invasive Transdermal Delivery Systems with Deep Tissue Penetrating Ability for Local ROS-Modulating Chemotherapy. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	2
355	Biological Schiff bases may generate reactive triplet carbonyls and singlet oxygen: A model study. <i>Free Radical Biology and Medicine</i> , 2022, 191, 97-104.	2.9	1
356	The pigmentation phenotype of melanocytes affects their response to nitric oxide in vitro. <i>Postepy Dermatologii i Alergologii</i> , 2023, 40, 150-158.	0.9	2
357	Heterointerface engineering of tetragonal CsPbCl <sub>3</sub> based ultraviolet photodetectors with pentacene for enhancing the photoelectric performance. <i>Journal of Materials Chemistry C</i> , 2022, 10, 14892-14904.	5.5	10
358	Real-Time Quantitative Detection of Ultraviolet Radiation Dose Based on Photochromic Hydrogel and Photo-Resistance. <i>Chemistry of Materials</i> , 2022, 34, 7947-7958.	6.7	12

#	ARTICLE	IF	CITATIONS
359	Aspirin Protects against UVB-Induced DNA Damage through Activation of AMP Kinase. Journal of Investigative Dermatology, 2023, 143, 154-162.e3.	0.7	0
360	Cellâ€™s intrinsic melanin fails to protect melanocytes from ultravioletâ€™mutagenesis in the absence of epidermal melanin. Pigment Cell and Melanoma Research, 2023, 36, 6-18.	3.3	4
361	Ultraviolet A radiation exposure and melanoma: a review. Melanoma Research, 2022, 32, 405-410.	1.2	9
362	Pyrimethamine induces phototoxicity in human keratinocytes via lysosomal and mitochondrial dependent signaling pathways under environmental UVA and UVB exposure. Toxicology, 2022, 479, 153320.	4.2	0
363	UVA Radiation, DNA Damage, and Melanoma. ACS Omega, 2022, 7, 32936-32948.	3.5	17
364	The <scp>Glycolysisâ€™derived Î±â€™Dicarbonyl</scp> Metabolite Methylglyoxal is a <scp>UVAâ€™photosensitizer</scp> Causing the Photooxidative Elimination of HaCaT Keratinocytes with Induction of Oxidative and Proteotoxic Stress Response Gene Expression <sup>â€™</sup>. Photochemistry and Photobiology, 0, .	2.5	2
365	Novel Expression of Thymine Dimers in Renal Cell Carcinoma, Demonstrated through Immunohistochemistry. Biomedicines, 2022, 10, 2673.	3.2	4
366	A transparent kaolinite-loaded zinc oxide nanocomposite sunscreen with UV shielding rate over 99% based on bidirectional dispersion. Nanotechnology, 2023, 34, 075601.	2.6	1
367	Protective Effect of the Hydrophilic Extract of Polypodium leucotomos, FernblockÂ®, against the Synergistic Action of UVA Radiation and Benzo[a]pyrene Pollutant. Antioxidants, 2022, 11, 2185.	5.1	1
368	Blue light exposure enhances oxidative stress, causes DNA damage, and induces apoptosis signaling in B16F1 melanoma cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2022, 883-884, 503562.	1.7	3
370	Biology and genetics of acquired and congenital melanocytic naevi. Pathology, 2023, 55, 169-177.	0.6	3
371	The Role of Acetyl Zingerone and Its Derivatives in Inhibiting UV-Induced, Incident, and Delayed Cyclobutane Pyrimidine Dimers. Antioxidants, 2023, 12, 278.	5.1	4
372	Cosmeceutical formulations of pro-vitamin E phosphate: In-vitro release testing and dermal penetration into excised human skin. International Journal of Pharmaceutics, 2023, 636, 122781.	5.2	1
373	The phototoxicity action spectra of visible light in HaCaT keratinocytes. Journal of Photochemistry and Photobiology B: Biology, 2023, 243, 112703.	3.8	5
374	Dâ€™A Structured Highâ€™Performance Photothermal/Photodynamic Thioninâ€™Synthetic Melanin Nanoparticles for Rapid Bactericidal and Wound Healing Effects. Advanced Healthcare Materials, 2023, 12, .	7.6	3
375	Chemiexcitation: Mammalian Photochemistry in the Dark<sup>â€™</sup>. Photochemistry and Photobiology, 2023, 99, 251-276.	2.5	5
376	Chemiexcited Neurotransmitters and Hormones Create DNA Photoproducts in the Dark. ACS Chemical Biology, 2023, 18, 484-493.	3.4	5
377	Mapping Health. , 2023, , 9-38.		0

#	ARTICLE	IF	CITATIONS
378	Circadian Oscillations in Skin and Their Interconnection with the Cycle of Life. International Journal of Molecular Sciences, 2023, 24, 5635.	4.1	4
379	Laser-assisted drug delivery of synthetic alpha melanocyte stimulating hormone and L-tyrosine leads to increased pigmentation area and expression of melanogenesis genes in a porcine hypertrophic scar model. Lasers in Surgery and Medicine, 2023, 55, 490-502.	2.1	2
380	Mining reactive triplet carbonyls in biological systems. Journal of Photochemistry and Photobiology B: Biology, 2023, 243, 112712.	3.8	2
381	Prominent Roles and Conflicted Attitudes of Eumelanin in the Living World. International Journal of Molecular Sciences, 2023, 24, 7783.	4.1	1
382	Chemical excitation and melanin in photoreceptor disc turnover and prevention of macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.1	4
383	Multifunctional Plasmonic Sensor for Excellent UV Photodetection and NO <sub>2</sub> Gas Sensing by an Array of Al Nanocaps on GaN Truncated Nanocones. Advanced Optical Materials, 2023, 11, .	7.3	1
384	Ataxia Telangiectasia Mutated Signaling Delays Skin Pigmentation upon UV Exposure by Mediating MITF Function toward DNA Repair Mode. Journal of Investigative Dermatology, 2023, 143, 2494-2506.e4.	0.7	1
385	Opsins as main regulators of skin biology. Journal of Photochemistry and Photobiology, 2023, 15, 100186.	2.5	1
386	Acetyl Zingerone: A Photostable Multifunctional Skincare Ingredient That Combats Features of Intrinsic and Extrinsic Skin Aging. Antioxidants, 2023, 12, 1168.	5.1	3
387	Polycondensation-Involved Melanin-like Polymers for Enhanced Solar Energy Utilization. Macromolecules, 2023, 56, 4566-4574.	4.8	10
388	Chemi- and bioluminescence: A practical tutorial on computational chemiluminescence. , 2023, , 351-366.		1
390	Clinical Applications of Polypodium leucotomos (Fernblock®): An Update. Life, 2023, 13, 1513.	2.4	0
391	Endogenous Photosensitizers in Human Skin. Chemical Reviews, 2023, 123, 9720-9785.	47.7	14
392	Evaluation of DNA lesions and radicals generated by a 233Ånm far-UVC LED in superficial ex vivo skin wounds. Journal of Photochemistry and Photobiology B: Biology, 2023, 245, 112757.	3.8	2
393	A general dopamine deposition strategy on polyether sulfone membrane for water purification. Materials Today Communications, 2023, 36, 106720.	1.9	0
394	Evaluation of the effectiveness and safety of combined oral and topical photoprotection with a standardized extract of Polypodium leucotomos (Fernblock®) in a Moroccan population with xeroderma pigmentosum. Photodermatology Photoimmunology and Photomedicine, 2023, 39, 607-612.	1.5	0
395	Targeting Ultrafast Spectroscopic Insights into Red Fluorescent Proteins. Chemistry - an Asian Journal, 2023, 18, .	3.3	1
396	Thermal compensation reduces DNA damage from UV radiation. Journal of Thermal Biology, 2023, 117, 103711.	2.5	3

#	ARTICLE	IF	CITATIONS
397	Sustained pigmentation causes DNA damage and invokes translesion polymerase PolI <sup>®</sup> for repair in melanocytes. <i>Nucleic Acids Research</i> , 0, , .	14.5	0
398	A Brief Description of Different Types of Cancers and Role of Some Herbs & Bioactive Compounds in Lung Cancer Management. , 2023, 2, 32-47.		1
400	Biological Auto(chemi)luminescence Imaging of Oxidative Processes in Human Skin. <i>Analytical Chemistry</i> , 2023, 95, 14853-14860.	6.5	1
401	Photodynamic Therapy in Pigmented Basal Cell Carcinomaâ€”A Review. <i>Biomedicines</i> , 2023, 11, 3099.	3.2	0
402	Capturing excited-state structural snapshots of evolutionary green-to-red photochromic fluorescent proteins. <i>Frontiers in Chemistry</i> , 0, 11, .	3.6	0
403	Sunlight, skin cancer and vitamin D. , 2024, , 967-993.		0
404	Melaninâ€”The Å‰minence Grise of Melanoma and Parkinsonâ€™s Disease Development. <i>Cancers</i> , 2023, 15, 5541.	1.7	0
405	Use of reconstructed skin model to assess the photoprotection afforded by three sunscreen products having different SPF values against DNA lesions and cellular alterations. <i>Journal of Photochemistry and Photobiology</i> , 2024, 19, 100213.	2.5	1
406	DNA lesions triggered by visible light in skin cells: In the search for comprehensive sun protection. <i>Journal of Photochemistry and Photobiology</i> , 2023, 18, 100217.	2.5	0
407	<scp>Nearâ€‘infrared</scp> light does not induce <scp>DNA</scp> damage in human dermal fibroblasts. <i>Journal of Biophotonics</i> , 2024, 17, .	2.3	0
408	DNAæ¸, ä“š®è†šã€“. <i>Skin Cancer</i> , 2023, 38, 44-49.	0.0	0
409	Platelet-rich plasma alleviates skin photoaging and oxidative stress in rats by regulating autophagy and inhibiting the NLRP 3 inflammasome pathway. , 2023, 21, 745-750.		0
410	Coldâ€‘induced skin darkening does not protect amphibian larvae from UVâ€‘associated DNA damage. <i>Journal of Experimental Zoology Part A: Ecological and Integrative Physiology</i> , 2024, 341, 272-281.	1.9	0
411	Role of reactive oxygen species in ultraviolet-induced photodamage of the skin. <i>Cell Division</i> , 2024, 19, .	2.4	3
412	Fully Reversible and Superâ€‘Fast Photoâ€‘Induced Morphological Transformation of Nanofilms for Highâ€‘Performance UV Detection and Lightâ€‘Driven Actuators. <i>Advanced Science</i> , 2024, 11, .	11.2	0
413	Significance of melanin distribution in the epidermis for the protective effect against UV light. <i>Scientific Reports</i> , 2024, 14, .	3.3	1
415	Ultraviolet Radiation Biological and Medical Implications. <i>Current Issues in Molecular Biology</i> , 2024, 46, 1924-1942.	2.4	0
416	UV-C LED-induced cyclobutane pyrimidine dimer formation, lesion repair and mutagenesis in the biofilm-forming diatom, <i>Navicula incerta</i>. <i>Biofouling</i> , 2024, 40, 76-87.	2.2	0

#	ARTICLE	IF	CITATIONS
417	Molecular Frontiers in Melanoma: Pathogenesis, Diagnosis, and Therapeutic Advances. International Journal of Molecular Sciences, 2024, 25, 2984.	4.1	0
418	The metabolism of melanin synthesisâ€”From melanocytes to melanoma. Pigment Cell and Melanoma Research, 0, , .	3.3	0
419	Photochemical Processes of Cell DNA Damage by UV Radiation of Various Wavelengths: Biological Consequences. Molecular Biology, 2024, 58, 1-16.	1.3	0
420	Visual Sensor with Hostâ€”Guest Specific Recognition and Lightâ€”Electrical Coâ€”Controlled Switch. Small, 0, , .	10.0	0
421	Investigating the impact of pigmentation variation of breast muscle on growth traits, melanin deposition, and gene expression in Xuefeng black-bone chickens. Poultry Science, 2024, 103, 103691.	3.4	0