List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The skin aging exposome. Journal of Dermatological Science, 2017, 85, 152-161.	1.0	466
2	Lightening up the UV response by identification of the arylhydrocarbon receptor as a cytoplasmatic target for ultraviolet B radiation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8851-8856.	3.3	394
3	Airborne Particle Exposure and Extrinsic Skin Aging. Journal of Investigative Dermatology, 2010, 130, 2719-2726.	0.3	352
4	Singlet Oxygen Mediates the UVA-induced Generation of the Photoaging-associated Mitochondrial Common Deletion. Journal of Biological Chemistry, 1999, 274, 15345-15349.	1.6	321
5	Enzyme plus light therapy to repair DNA damage in ultraviolet-B-irradiated human skin. Proceedings of the United States of America, 2000, 97, 1790-1795.	3.3	280
6	Ultraviolet A radiation-induced biological effects in human skin: relevance for photoaging and photodermatosis. Journal of Dermatological Science, 2000, 23, S22-S26.	1.0	221
7	Cutaneous effects of infrared radiation: from clinical observations to molecular response mechanisms. Photodermatology Photoimmunology and Photomedicine, 2003, 19, 228-234.	0.7	218
8	Pollution and skin: From epidemiological and mechanistic studies to clinical implications. Journal of Dermatological Science, 2014, 76, 163-168.	1.0	207
9	Ultraviolet Light Induces Increased Circulating Interleukin-6 in Humans. Journal of Investigative Dermatology, 1990, 94, 808-811.	0.3	204
10	Activation of transcription factor AP-2 mediates UVA radiation- and singlet oxygen-induced expression of the human intercellular adhesion molecule 1 gene. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 14586-14591.	3.3	202
11	Infrared Radiation-Induced Matrix Metalloproteinase in Human Skin: Implications for Protection. Journal of Investigative Dermatology, 2008, 128, 2491-2497.	0.3	182
12	The hallmarks of fibroblast ageing. Mechanisms of Ageing and Development, 2014, 138, 26-44.	2.2	179
13	Induction of the Photoaging-Associated Mitochondrial Common Deletion In Vivo in Normal Human Skin. Journal of Investigative Dermatology, 2004, 122, 1277-1283.	0.3	165
14	Photoimmunology: how ultraviolet radiation affects the immune system. Nature Reviews Immunology, 2019, 19, 688-701.	10.6	162
15	Environmental influences on skin aging and ethnic-specific manifestations. Dermato-Endocrinology, 2012, 4, 227-231.	1.9	158
16	Cellular response to infrared radiation involves retrograde mitochondrial signaling. Free Radical Biology and Medicine, 2007, 43, 128-135.	1.3	155
17	Proteins of nucleotide and base excision repair pathways interact in mitochondria to protect from loss of subcutaneous fat, a hallmark of aging. Journal of Experimental Medicine, 2010, 207, 379-390.	4.2	155
18	Role of Mitochondria in Photoaging of Human Skin: The Defective Powerhouse Model. Journal of Investigative Dermatology Symposium Proceedings, 2009, 14, 44-49.	0.8	153

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19	Characterization of Skin Aging–Associated Secreted Proteins (SAASP) Produced by Dermal Fibroblasts Isolated from Intrinsically Aged Human Skin. Journal of Investigative Dermatology, 2015, 135, 1954-1968.	0.3	152
20	Functions of the aryl hydrocarbon receptor in the skin. Seminars in Immunopathology, 2013, 35, 677-691.	2.8	149
21	Chronically Ultravioletâ€exposed Human Skin Shows a Higher Mutation Frequency of Mitochondrial DNA as Compared to Unexposed Skin and the Hematopoietic System. Photochemistry and Photobiology, 1997, 66, 271-275.	1.3	137
22	The Aryl Hydrocarbon Receptor Mediates UVB Radiation–Induced Skin Tanning. Journal of Investigative Dermatology, 2011, 131, 203-210.	0.3	127
23	Protection from Sunburn with β-Carotene—A Meta-analysis. Photochemistry and Photobiology, 2008, 84, 284-288.	1.3	125
24	The aryl hydrocarbon receptor (AHR), a novel regulator of human melanogenesis. Pigment Cell and Melanoma Research, 2010, 23, 828-833.	1.5	122
25	Sun Exposure: What Molecular Photodermatology Tells Us About Its Good and Bad Sides. Journal of Investigative Dermatology, 2012, 132, 976-984.	0.3	120
26	The role of near infrared radiation in photoaging of the skin. Experimental Gerontology, 2008, 43, 629-632.	1.2	112
27	MicroRNA-15b regulates mitochondrial ROS production and the senescence-associated secretory phenotype through sirtuin 4/SIRT4. Aging, 2016, 8, 484-505.	1.4	108
28	Molecular evidence that oral supplementation with lycopene or lutein protects human skin against ultraviolet radiation: results from a double-blinded, placebo-controlled, crossover study. British Journal of Dermatology, 2017, 176, 1231-1240.	1.4	101
29	Eczema, respiratory allergies, and traffic-related air pollution in birth cohorts from small-town areas. Journal of Dermatological Science, 2009, 56, 99-105.	1.0	97
30	Aryl Hydrocarbon Receptor in Keratinocytes Is Essential for Murine SkinÂBarrier Integrity. Journal of Investigative Dermatology, 2016, 136, 2260-2269.	0.3	97
31	The SCINEXA: A novel, validated score to simultaneously assess and differentiate between intrinsic and extrinsic skin ageing. Journal of Dermatological Science, 2009, 53, 207-211.	1.0	96
32	The Janus-Faced Role of Aryl Hydrocarbon Receptor Signaling in the Skin: Consequences for Prevention and Treatment of Skin Disorders. Journal of Investigative Dermatology, 2015, 135, 2572-2576.	0.3	95
33	Photoprotection of human skin beyond ultraviolet radiation. Photodermatology Photoimmunology and Photomedicine, 2014, 30, 167-174.	0.7	94
34	Traffic-Related Air Pollution Contributes to Development of Facial Lentigines: Further Epidemiological Evidence from Caucasians and Asians. Journal of Investigative Dermatology, 2016, 136, 1053-1056.	0.3	94
35	Infrared A Radiation Influences the Skin Fibroblast Transcriptome: Mechanisms and Consequences. Journal of Investigative Dermatology, 2010, 130, 1524-1536.	0.3	91
36	Clinical and biological impact of the exposome on the skin. Journal of the European Academy of Dermatology and Venereology, 2020, 34, 4-25.	1.3	87

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37	Environmentally-Induced (Extrinsic) Skin Aging: Exposomal Factors and Underlying Mechanisms. Journal of Investigative Dermatology, 2021, 141, 1096-1103.	0.3	83
38	Photoprotection beyond Ultraviolet Radiation – Effective Sun Protection Has to Include Protection against Infrared A Radiation-Induced Skin Damage. Skin Pharmacology and Physiology, 2010, 23, 15-17.	1.1	81
39	Epidemiological evidence that indoor air pollution from cooking with solid fuels accelerates skin aging in Chinese women. Journal of Dermatological Science, 2015, 79, 148-154.	1.0	78
40	Photoprotection according to skin phototype and dermatoses: practical recommendations from an expert panel. Journal of the European Academy of Dermatology and Venereology, 2021, 35, 1460-1469.	1.3	77
41	Collagen Fragments Inhibit Hyaluronan Synthesis in Skin Fibroblasts in Response to Ultraviolet B (UVB). Journal of Biological Chemistry, 2011, 286, 18268-18276.	1.6	75
42	The AhR–Nrf2 Pathway in Keratinocytes: On the Road to Chemoprevention?. Journal of Investigative Dermatology, 2012, 132, 7-9.	0.3	72
43	The Osmolyte Strategy of Normal Human Keratinocytes in Maintaining Cell Homeostasis. Journal of Investigative Dermatology, 2004, 123, 516-521.	0.3	70
44	Role of the aryl hydrocarbon receptor in tobacco smoke extract–induced matrix metalloproteinaseâ€₁ expression. Experimental Dermatology, 2013, 22, 349-353.	1.4	70
45	Sunscreens with an absorption maximum of ≥360 nm provide optimal protection against UVA1-induced expression of matrix metalloproteinase-1, interleukin-1, and interleukin-6 in human dermal fibroblasts. Photochemical and Photobiological Sciences, 2006, 5, 275.	1.6	67
46	Proteome-wide analysis reveals an age-associated cellular phenotype of in situ aged human fibroblasts. Aging, 2014, 6, 856-872.	1.4	65
47	Effective Photoprotection of Human Skin against Infrared A Radiation by Topically Applied Antioxidants: Results from a Vehicle Controlled, Doubleâ€Blind, Randomized Study. Photochemistry and Photobiology, 2015, 91, 248-250.	1.3	64
48	Pollution and acne: is there a link?. Clinical, Cosmetic and Investigational Dermatology, 2017, Volume 10, 199-204.	0.8	63
49	Comparative performance analysis of human iPSC-derived and primary neural progenitor cells (NPC) grown as neurospheres in vitro. Stem Cell Research, 2017, 25, 72-82.	0.3	61
50	Ultraviolet B radiation-induced immunosuppression: molecular mechanisms and cellular alterations. Photochemical and Photobiological Sciences, 2005, 4, 699.	1.6	58
51	The AHR represses nucleotide excision repair and apoptosis and contributes to UV-induced skin carcinogenesis. Cell Death and Differentiation, 2018, 25, 1823-1836.	5.0	56
52	Role of the Aryl Hydrocarbon Receptor in Environmentally Induced Skin Aging and Skin Carcinogenesis. International Journal of Molecular Sciences, 2019, 20, 6005.	1.8	55
53	Pycnogenol® Effects on Skin Elasticity and Hydration Coincide with Increased Gene Expressions of Collagen Type I and Hyaluronic Acid Synthase in Women. Skin Pharmacology and Physiology, 2012, 25, 86-92.	1.1	53
54	A Time-Series Study of the Effect of Air Pollution on Outpatient Visits for Acne Vulgaris in Beijing. Skin Pharmacology and Physiology, 2018, 31, 107-113.	1.1	52

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55	Evidence for a novel anti-apoptotic pathway in human keratinocytes involving the aryl hydrocarbon receptor, E2F1, and checkpoint kinase 1. Cell Death and Differentiation, 2013, 20, 1425-1434.	5.0	50
56	Environmentâ€induced lentigines: formation of solar lentigines beyond ultraviolet radiation. Experimental Dermatology, 2015, 24, 407-411.	1.4	49
57	The New Aryl Hydrocarbon Receptor Antagonist E/Z-2-Benzylindene-5,6-Dimethoxy-3,3-Dimethylindan-1-One Protects against UVB-Induced Signal Transduction. Journal of Investigative Dermatology, 2014, 134, 556-559.	0.3	46
58	Photoprotection of the future: challenges and opportunities. Journal of the European Academy of Dermatology and Venereology, 2020, 34, 447-454.	1.3	46
59	Aryl Hydrocarbon Receptor Repressor (AhRR) Function Revisited: Repression of CYP1 Activity in Human Skin Fibroblasts Is Not Related to AhRR Expression. Journal of Investigative Dermatology, 2013, 133, 87-96.	0.3	43
60	Extrinsic skin ageing in German, Chinese and Japanese women manifests differently in all three groups depending on ethnic background, age and anatomical site. Journal of Dermatological Science, 2016, 83, 219-225.	1.0	43
61	Indoor PM2.5 exposure affects skin aging manifestation in a Chinese population. Scientific Reports, 2017, 7, 15329.	1.6	42
62	Characterization of the human skin resistome and identification of two microbiota cutotypes. Microbiome, 2021, 9, 47.	4.9	42
63	Adult skin acute stress responses to shortâ€term environmental and internal aggression from exposome factors. Journal of the European Academy of Dermatology and Venereology, 2021, 35, 1963-1975.	1.3	42
64	Estradiol Protects Dermal Hyaluronan/Versican Matrix during Photoaging by Release of Epidermal Growth Factor from Keratinocytes. Journal of Biological Chemistry, 2012, 287, 20056-20069.	1.6	41
65	A broad-spectrum sunscreen prevents UVA radiation-induced gene expression in reconstructed skin in vitro and in human skin in vivo. Experimental Dermatology, 2011, 20, 477-482.	1.4	40
66	Tropospheric ozone and skin aging: Results from two German cohort studies. Environment International, 2019, 124, 139-144.	4.8	39
67	Daily photoprotection to prevent photoaging. Photodermatology Photoimmunology and Photomedicine, 2021, 37, 482-489.	0.7	38
68	HDAC inhibition improves autophagic and lysosomal function to prevent loss of subcutaneous fat in a mouse model of Cockayne syndrome. Science Translational Medicine, 2018, 10, .	5.8	37
69	Traffic-related air pollution and eczema in the elderly: Findings from the SALIA cohort. International Journal of Hygiene and Environmental Health, 2018, 221, 861-867.	2.1	37
70	Nonatopic eczema in elderly women: Effect of air pollution and genes. Journal of Allergy and Clinical Immunology, 2019, 143, 378-385.e9.	1.5	36
71	The Osmolyte Taurine Protects against Ultraviolet B Radiation-Induced Immunosuppression. Journal of Immunology, 2007, 179, 3604-3612.	0.4	35
72	Inadequate mito-biogenesis in primary dermal fibroblasts from old humans is associated with impairment of PGC1A-independent stimulation. Experimental Gerontology, 2014, 56, 59-68.	1.2	35

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73	New Strategies in the Prevention of Actinic Keratosis: A Critical Review. Skin Pharmacology and Physiology, 2015, 28, 281-289.	1.1	34
74	Prevention of polymorphic light eruption by oral administration of a nutritional supplement containing lycopene, l²â€carotene, and <i><scp>L</scp>actobacillus johnsonii</i> : results from a randomized, placeboâ€controlled, doubleâ€blinded study. Photodermatology Photoimmunology and Photomedicine, 2014, 30, 189-194.	0.7	29
75	Recommendations for adjunctive basic skin care in patients with psoriasis. European Journal of Dermatology, 2014, 24, 194-200.	0.3	29
76	Novel Means for Photoprotection. Frontiers in Medicine, 2018, 5, 162.	1.2	29
77	Age, gender and UV-exposition related effects on gene expression in in vivo aged short term cultivated human dermal fibroblasts. PLoS ONE, 2017, 12, e0175657.	1.1	29
78	Molecular Crosstalk of the Ultraviolet A and Ultraviolet B Signaling Responses at the Level of Mitogen-Activated Protein Kinases. Journal of Investigative Dermatology, 2005, 124, 857-859.	0.3	28
79	MMP-1 and -3 Promoter Variants Are Indicative of a Common Susceptibility for Skin and Lung Aging: Results from a Cohort of Elderly Women (SALIA). Journal of Investigative Dermatology, 2015, 135, 1268-1274.	0.3	28
80	Association between sun-exposure, smoking behaviour and plasma antioxidant levels with the different manifestation of skin ageing signs between Japanese and German women—A pilot study. Journal of Dermatological Science, 2011, 62, 138-140.	1.0	25
81	Genetic variants associated with skin aging in the Chinese Han population. Journal of Dermatological Science, 2017, 86, 21-29.	1.0	25
82	Ultraviolet light-induced collagen degradation inhibits melanoma invasion. Nature Communications, 2021, 12, 2742.	5.8	25
83	Tomato Phytonutrients Balance UV Response: Results from a Double-Blind, Randomized, Placebo-Controlled Study. Skin Pharmacology and Physiology, 2019, 32, 101-108.	1.1	24
84	French Maritime Pine Bark Extract (Pycnogenol®) Effects on Human Skin: Clinical and Molecular Evidence. Skin Pharmacology and Physiology, 2016, 29, 13-17.	1.1	23
85	Photoprotection of the Skin from Visible Light‒Induced Pigmentation: Current Testing Methods and Proposed Harmonization. Journal of Investigative Dermatology, 2021, 141, 2569-2576.	0.3	23
86	Photoprotection against UVAR: effective triterpenoids require a lipid raft stabilizing chemical structure. Experimental Dermatology, 2011, 20, 955-958.	1.4	22
87	Role of ingestible carotenoids in skin protection: A review of clinical evidence. Photodermatology Photoimmunology and Photomedicine, 2021, 37, 490-504.	0.7	22
88	Alternative test models for skin ageing research. Experimental Dermatology, 2018, 27, 495-500.	1.4	21
89	Genome-wide scan identified genetic variants associated with skin aging in a Chinese female population. Journal of Dermatological Science, 2019, 96, 42-49.	1.0	21
90	Air pollutionâ€induced tanning of human skin*. British Journal of Dermatology, 2021, 185, 1026-1034.	1.4	20

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91	Development of Lentigines in German and Japanese Women Correlates with Variants in the SLC45A2 Gene. Journal of Investigative Dermatology, 2012, 132, 733-736.	0.3	19
92	Novel Facial Cream Containing Carnosine Inhibits Formation of Advanced Glycation End-Products in Human Skin. Skin Pharmacology and Physiology, 2018, 31, 324-331.	1.1	19
93	Vemurafenib acts as an aryl hydrocarbon receptor antagonist: Implications for inflammatory cutaneous adverse events. Allergy: European Journal of Allergy and Clinical Immunology, 2019, 74, 2437-2448.	2.7	19
94	Lentigine Formation in Caucasian Women—Interaction between Particulate Matter and Solar UVR. Journal of Investigative Dermatology, 2019, 139, 974-976.	0.3	17
95	Orally administered mixed carotenoids protect human skin against ultraviolet Aâ€induced skin pigmentation: A doubleâ€blind, placeboâ€controlled, randomized clinical trial. Photodermatology Photoimmunology and Photomedicine, 2020, 36, 219-225.	0.7	17
96	Mitochondrial common deletion mutation and extrinsic skin ageing in German and Japanese women. Experimental Dermatology, 2012, 21, 26-30.	1.4	16
97	Recommendations for managing cutaneous disorders associated with advancing age. Clinical Interventions in Aging, 2016, 11, 141.	1.3	16
98	The Toll-like receptor agonist imiquimod is metabolized by aryl hydrocarbon receptor-regulated cytochrome P450 enzymes in human keratinocytes and mouse liver. Archives of Toxicology, 2019, 93, 1917-1926.	1.9	16
99	Fast but not furious: a streamlined selection method for genome-edited cells. Life Science Alliance, 2021, 4, e202101051.	1.3	16
100	Identification of factors associated with minimal erythema dose variations in a largeâ€scale population study of 22Â146 subjects. Journal of the European Academy of Dermatology and Venereology, 2020, 34, 1595-1600.	1.3	11
101	The Aryl Hydrocarbon Receptor in the Pathogenesis of Environmentally-Induced Squamous Cell Carcinomas of the Skin. Frontiers in Oncology, 2022, 12, 841721.	1.3	11
102	Efficacy of a topical serum containing Lâ€ascorbic acid, neohesperidin, pycnogenol, tocopherol, and hyaluronic acid in relation to skin aging signs. Journal of Cosmetic Dermatology, 2022, 21, 4462-4469.	0.8	9
103	New Methodology to Evaluate Sunscreens Under Outdoor Conditions: A Double-Blind, Randomized Intra-Individual Clinical Study of a Water-Based Broad-Spectrum SPF50+ Versus SPF15 (P3) and SPF50+. Dermatology and Therapy, 2019, 9, 589-599.	1.4	7
104	Identification of genome edited cells using CRISPRnano. Nucleic Acids Research, 2022, 50, W199-W203.	6.5	7
105	Linear and exponential sunscreen behaviours as an explanation for observed discrepancies in sun protection factor testing. Photodermatology Photoimmunology and Photomedicine, 2020, 36, 351-356.	0.7	6
106	Autologous Cell Therapy for Aged Human Skin: A Randomized, Placebo-Controlled, Phase-I Study. Skin Pharmacology and Physiology, 2020, 33, 9-16.	1.1	6
107	The mode of action of tapinarof may not only depend on the activation of cutaneous aryl hydrocarbon receptor signaling but also on its antimicrobial activity. Journal of the American Academy of Dermatology, 2021, 85, e33-e34.	0.6	6
108	Inhibition of 6-formylindolo[3,2-b]carbazole metabolism sensitizes keratinocytes to UVA-induced apoptosis: Implications for vemurafenib-induced phototoxicity. Redox Biology, 2021, 46, 102110.	3.9	6

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109	AHR in the skin: From the mediator of chloracne to a therapeutic panacea?. Current Opinion in Toxicology, 2017, 2, 79-86.	2.6	5
110	Outdoor sunscreen testing with highâ€intensity solar exposure in a Chinese and Caucasian population. Photodermatology Photoimmunology and Photomedicine, 2022, 38, 19-28.	0.7	5
111	Keratinocytes Counteract UVB-Induced Immunosuppression in Mice through HIF-1a Signaling. Journal of Investigative Dermatology, 2022, 142, 1183-1193.	0.3	5
112	1209 Ambient relevant diesel exhaust particles cause skin hyperpigmentation ex vivo and in vivo in human skin: The Düsseldorf Pollution Patch Test. Journal of Investigative Dermatology, 2018, 138, S205.	0.3	4
113	13035 Multiple carotenoids supplementation enhances human skin protection against ultraviolet A–induced skin pigmentation: A randomized, double-blind, placebo-controlled clinical trial. Journal of the American Academy of Dermatology, 2020, 83, AB4.	0.6	3
114	Generation of an induced pluripotent stem cell line (IUFi001) from a Cockayne syndrome patient carrying a mutation in the ERCC6 gene. Stem Cell Research, 2021, 55, 102456.	0.3	3
115	Protective effects of a day/night dualâ€antioxidant serum on skin: a randomized, regimenâ€controlled study in Chinese women exposed to air pollution. Journal of Cosmetic Dermatology, 2022, , .	0.8	3
116	188 Epidemiological and mechanistic evidence that AHR signaling is involved in airborne particle-induced skin damage. Journal of Investigative Dermatology, 2016, 136, S33.	0.3	2
117	Combined, Simultaneous Exposure to Radiation Within and Beyond the UV Spectrum: A Novel Approach to Better Understand Skin Damage by Natural Sunlight. , 2018, , 11-16.		2
118	228 Estimation of the relative contribution of environmental and genetic factors to facial skin aging: A step towards individualized cosmetics. Journal of Investigative Dermatology, 2019, 139, S39.	0.3	2
119	173 Epidemiological evidence for a negative association between air pollution and basal cell carcinoma. Journal of Investigative Dermatology, 2019, 139, S30.	0.3	2
120	156 Air pollution and skin aging: Is there a mediator role for air pollution-induced lung inflammation?. Journal of Investigative Dermatology, 2017, 137, S27.	0.3	1
121	Daily photoprotection: What does it really mean?. Photodermatology Photoimmunology and Photomedicine, 2021, 37, 569-570.	0.7	1
122	<scp>COX</scp> inhibition enhances inflammatory immune cell infiltration in <scp>UV</scp> â€irradiated human skin: implications for the treatment of sunburn. Experimental Dermatology, 2015, 24, 734-735.	1.4	0
123	Ambient Particulate Matter and Skin. , 2018, , 105-111.		0