

Rachel E Watson

List of Publications by Year in descending order

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115
papers

4,049
citations

109321

35
h-index

133252

59
g-index

117
all docs

117
docs citations

117
times ranked

4474
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular aspects of skin ageing. <i>Maturitas</i> , 2011, 69, 249-256.	2.4	435
2	Fibrillin-Rich Microfibrils are Reduced in Photoaged Skin. Distribution at the Dermal-Epidermal Junction. <i>Journal of Investigative Dermatology</i> , 1999, 112, 782-787.	0.7	156
3	Fibrillin microfibrils are reduced in skin exhibiting striae distensae. <i>British Journal of Dermatology</i> , 1998, 138, 931-937.	1.5	153
4	Age-Associated Skin Conditions and Diseases: Current Perspectives and Future Options. <i>Gerontologist</i> , The, 2016, 56, S230-S242.	3.9	146
5	Review Article: A new wrinkle on old skin: the role of elastic fibres in skin ageing. <i>International Journal of Cosmetic Science</i> , 2010, 32, 330-339.	2.6	133
6	Tomato paste rich in lycopene protects against cutaneous photodamage in humans in vivo: a randomized controlled trial. <i>British Journal of Dermatology</i> , 2011, 164, 154-162.	1.5	131
7	Damage to Skin Extracellular Matrix Induced by UV Exposure. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 1063-1077.	5.4	116
8	Tissue section AFM: In situ ultrastructural imaging of native biomolecules. <i>Matrix Biology</i> , 2010, 29, 254-260.	3.6	98
9	Inflammaging and the Skin. <i>Journal of Investigative Dermatology</i> , 2021, 141, 1087-1095.	0.7	87
10	Morphological Characterisation of Unstained and Intact Tissue Micro-architecture by X-ray Computed Micro- and Nano-Tomography. <i>Scientific Reports</i> , 2015, 5, 10074.	3.3	86
11	A Meeting of Two Chronobiological Systems: Circadian Proteins Period1 and BMAL1 Modulate the Human Hair Cycle Clock. <i>Journal of Investigative Dermatology</i> , 2014, 134, 610-619.	0.7	84
12	The cycling hair follicle as an ideal systems biology research model. <i>Experimental Dermatology</i> , 2010, 19, 707-713.	2.9	75
13	Nanoindentation of histological specimens: Mapping the elastic properties of soft tissues. <i>Journal of Materials Research</i> , 2009, 24, 638-646.	2.6	73
14	A Short-Term Screening Protocol, Using Fibrillin-1 as a Reporter Molecule, for Photoaging Repair Agents. <i>Journal of Investigative Dermatology</i> , 2001, 116, 672-678.	0.7	70
15	Altered claudin expression is a feature of chronic plaque psoriasis. <i>Journal of Pathology</i> , 2007, 212, 450-458.	4.5	70
16	The impact of intrinsic ageing on the protein composition of the dermal-epidermal junction. <i>Mechanisms of Ageing and Development</i> , 2016, 156, 14-16.	4.6	69
17	Repair of photoaged dermal matrix by topical application of a cosmetic "anti-ageing"™ product. <i>British Journal of Dermatology</i> , 2008, 158, 472-477.	1.5	66
18	A cosmetic "anti-ageing"™ product improves photoaged skin: a double-blind, randomized controlled trial. <i>British Journal of Dermatology</i> , 2009, 161, 419-426.	1.5	66

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19	Omega-3 polyunsaturated fatty acids: photoprotective macronutrients. <i>Experimental Dermatology</i> , 2011, 20, 537-543.	2.9	62
20	Oral green tea catechin metabolites are incorporated into human skin and protect against UV radiation-induced cutaneous inflammation in association with reduced production of pro-inflammatory eicosanoid 12-hydroxyeicosatetraenoic acid. <i>British Journal of Nutrition</i> , 2013, 110, 891-900.	2.3	62
21	Low-dose ultraviolet radiation selectively degrades chromophore-rich extracellular matrix components. <i>Journal of Pathology</i> , 2010, 222, 32-40.	4.5	58
22	Nuclear Hormone Receptors in Human Skin. <i>Hormone and Metabolic Research</i> , 2007, 39, 96-105.	1.5	57
23	Structural and compositional diversity of fibrillin microfibrils in human tissues. <i>Journal of Biological Chemistry</i> , 2018, 293, 5117-5133.	3.4	54
24	Influence of Eicosapentaenoic Acid, an Omega-3 Fatty Acid, on Ultraviolet-B Generation of Prostaglandin-E2 and Proinflammatory Cytokines Interleukin-1 β , Tumor Necrosis Factor- α , Interleukin-6 and Interleukin-8 in Human Skin In Vivo. <i>Photochemistry and Photobiology</i> , 2004, 80, 231.	2.5	53
25	Clinical features of photodamaged human skin are associated with a reduction in collagen VII. <i>British Journal of Dermatology</i> , 1997, 137, 344-350.	1.5	51
26	Organization of the dermal matrix impacts the biomechanical properties of skin. <i>British Journal of Dermatology</i> , 2017, 177, 818-827.	1.5	50
27	A potential role for endogenous proteins as sacrificial sunscreens and antioxidants in human tissues. <i>Redox Biology</i> , 2015, 5, 101-113.	9.0	45
28	A randomized controlled trial of green tea catechins in protection against ultraviolet radiation-induced cutaneous inflammation. <i>American Journal of Clinical Nutrition</i> , 2015, 102, 608-615.	4.7	45
29	Fractional Sunburn Threshold UVR Doses Generate Equivalent Vitamin D and DNA Damage in Skin Types I-VI but with Epidermal DNA Damage Gradient Correlated to Skin Darkness. <i>Journal of Investigative Dermatology</i> , 2018, 138, 2244-2252.	0.7	45
30	Aging in Skin of Color: Disruption to Elastic Fiber Organization Is Detrimental to Skin's Biomechanical Function. <i>Journal of Investigative Dermatology</i> , 2019, 139, 779-788.	0.7	42
31	Histamine Is Released following Aminolevulinic Acid-Photodynamic Therapy of Human Skin and Mediates an Aminolevulinic Acid Dose-Related Immediate Inflammatory Response. <i>Journal of Investigative Dermatology</i> , 2006, 126, 2296-2301.	0.7	41
32	Distribution and expression of type VI collagen in photoaged skin. <i>British Journal of Dermatology</i> , 2001, 144, 751-759.	1.5	39
33	Photoageing: the darker side of the sun. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 160-164.	2.9	39
34	Ageing significantly impacts the biomechanical function and structural composition of skin. <i>Experimental Dermatology</i> , 2019, 28, 981-984.	2.9	39
35	Clinical features of photodamaged human skin are associated with a reduction in collagen VII. <i>British Journal of Dermatology</i> , 1997, 137, 344-350.	1.5	38
36	Oral mucosal keratinocytes express RANTES and ICAM-1, but not interleukin-8, in oral lichen planus and oral lichenoid reactions induced by amalgam fillings. <i>Clinical and Experimental Dermatology</i> , 2003, 28, 64-69.	1.3	38

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37	Daily photoprotection to prevent photoaging. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2021, 37, 482-489.	1.5	38
38	Pathogenic aspects of cutaneous photoaging. <i>Journal of Cosmetic Dermatology</i> , 2005, 4, 230-236.	1.6	37
39	Pityriasis rubra pilaris treated with acitretin and narrow-band ultraviolet B (Re-TL-01). <i>British Journal of Dermatology</i> , 2000, 142, 376-377.	1.5	34
40	Green tea catechins and their metabolites in human skin before and after exposure to ultraviolet radiation. <i>Journal of Nutritional Biochemistry</i> , 2016, 27, 203-210.	4.2	33
41	Aged human skin accumulates mast cells with altered functionality that localize to macrophages and vasoactive intestinal peptide α -positive nerve fibres. <i>British Journal of Dermatology</i> , 2019, 180, 849-858.	1.5	33
42	Geographical ancestry is a key determinant of epidermal morphology and dermal composition. <i>British Journal of Dermatology</i> , 2014, 171, 274-282.	1.5	29
43	Novel approaches to characterize age α -related remodelling of the dermal α -epidermal junction in 2D, 3D and <i>in vivo</i> . <i>Skin Research and Technology</i> , 2017, 23, 131-148.	1.6	29
44	Dynamics of the human skin mediator lipidome in response to dietary ω -3 fatty acid supplementation. <i>FASEB Journal</i> , 2019, 33, 13014-13027.	0.5	29
45	Selective proteolysis by matrix metalloproteinases of photo-oxidised dermal extracellular matrix proteins. <i>Cellular Signalling</i> , 2019, 54, 191-199.	3.6	29
46	Differential expression of elastic fibre components in intrinsically aged skin. <i>Biogerontology</i> , 2012, 13, 37-48.	3.9	28
47	Salicyloyl α -phytosphingosine: a novel agent for the repair of photoaged skin. <i>International Journal of Cosmetic Science</i> , 2007, 29, 319-329.	2.6	27
48	All-trans retinoic acid compromises desmosome expression in human epidermis. <i>British Journal of Dermatology</i> , 1998, 139, 577-584.	1.5	26
49	Thyroid Hormones Enhance Mitochondrial Function in Human Epidermis. <i>Journal of Investigative Dermatology</i> , 2016, 136, 2003-2012.	0.7	26
50	Annexin VIII Is Differentially Expressed by Chondrocytes in the Mammalian Growth Plate During Endochondral Ossification and in Osteoarthritic Cartilage. <i>Journal of Bone and Mineral Research</i> , 2002, 17, 1851-1858.	2.8	25
51	Severely Photosensitive Psoriasis: A Phenotypically Defined Patient Subset. <i>Journal of Investigative Dermatology</i> , 2009, 129, 2861-2867.	0.7	25
52	Chemical consequences of cutaneous photoageing. <i>Chemistry Central Journal</i> , 2012, 6, 34.	2.6	23
53	Multi-layer phase analysis: quantifying the elastic properties of soft tissues and live cells with ultra-high-frequency scanning acoustic microscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 610-620.	3.0	23
54	Cross-linking of structural proteins in ageing skin: an in situ assay for the detection of amine oxidase activity. <i>Biogerontology</i> , 2013, 14, 89-97.	3.9	23

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55	Skin aging: molecular pathology, dermal remodelling and the imaging revolution. <i>Giornale Italiano Di Dermatologia E Venereologia</i> , 2015, 150, 665-74.	0.8	23
56	Topical aminolaevulinic acid-photodynamic therapy produces an inflammatory infiltrate but reduces Langerhans cells in healthy human skin in vivo. <i>British Journal of Dermatology</i> , 2011, 165, 513-519.	1.5	22
57	Topical photodynamic therapy significantly reduces epidermal Langerhans cells during clinical treatment of basal cell carcinoma. <i>British Journal of Dermatology</i> , 2012, 166, 1112-1115.	1.5	22
58	The CX3CL1-CX3CR1 system and psoriasis. <i>Experimental Dermatology</i> , 2006, 15, 900-903.	2.9	21
59	Downregulation and altered spatial pattern of caveolin-1 in chronic plaque psoriasis. <i>British Journal of Dermatology</i> , 2002, 147, 701-709.	1.5	20
60	<i>In vitro</i> and <i>in vivo</i> studies with tetrahydrocannabinolic acid (LR2412) reveal its potential to correct signs of skin ageing. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2014, 28, 415-423.	2.4	20
61	High performance liquid chromatography tandem mass spectrometry dual extraction method for identification of green tea catechin metabolites excreted in human urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 972, 29-37.	2.3	20
62	Over-the-counter anti-ageing topical agents and their ability to protect and repair photoaged skin. <i>Maturitas</i> , 2015, 80, 265-272.	2.4	20
63	Retinoic acid receptor γ expression and cutaneous ageing. <i>Mechanisms of Ageing and Development</i> , 2004, 125, 465-473.	4.6	19
64	Proteomic fingerprints of damage in extracellular matrix assemblies. <i>Matrix Biology Plus</i> , 2020, 5, 100027.	3.5	19
65	The impact of perceived stress on skin ageing. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2020, 34, 54-58.	2.4	18
66	Predicting Proteolysis in Complex Proteomes Using Deep Learning. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3071.	4.1	18
67	Distinctive clinical and histological characteristics of atrophic and hypertrophic facial photoageing. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2021, 35, 762-768.	2.4	17
68	Activation of oral keratinocytes by mercuric chloride: relevance to dental amalgam-induced oral lichenoid reactions. <i>British Journal of Dermatology</i> , 2001, 144, 1024-1032.	1.5	16
69	Prostaglandin E_2 and nitric oxide mediate the acute inflammatory (erythematous) response to topical 5-aminolaevulinic acid photodynamic therapy in human skin. <i>British Journal of Dermatology</i> , 2013, 169, 645-652.	1.5	16
70	A photonumeric scale for the assessment of atrophic facial photodamage. <i>British Journal of Dermatology</i> , 2018, 178, 1190-1195.	1.5	16
71	Osmolyte transporter expression is reduced in photoaged human skin: Implications for skin hydration in aging. <i>Aging Cell</i> , 2020, 19, e13058.	6.7	15
72	The systemic influence of chronic smoking on skin structure and mechanical function. <i>Journal of Pathology</i> , 2020, 251, 420-428.	4.5	13

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73	Oral green tea catechins do not provide photoprotection from direct DNA damage induced by higher dose solar simulated radiation: A randomized controlled trial. <i>Journal of the American Academy of Dermatology</i> , 2018, 78, 414-416.	1.2	12
74	Protease activity as a prognostic factor for wound healing in complex wounds. <i>Wound Repair and Regeneration</i> , 2020, 28, 631-644.	3.0	12
75	Defining tissue proteomes by systematic literature review. <i>Scientific Reports</i> , 2018, 8, 546.	3.3	11
76	Organic osmolytes increase expression of specific tight junction proteins in skin and alter barrier function in keratinocytes*. <i>British Journal of Dermatology</i> , 2021, 184, 482-494.	1.5	11
77	Mapping the Micromechanical Properties of Cryo-sectioned Aortic Tissue with Scanning Acoustic Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1132, ukpmcpa27262.	0.1	10
78	An abnormality in glucocorticoid receptor expression differentiates steroid responders from nonresponders in keloid disease. <i>British Journal of Dermatology</i> , 2015, 173, 690-700.	1.5	10
79	Lysyl oxidase activity in human skin is increased by chronic ultraviolet radiation exposure and smoking. <i>British Journal of Dermatology</i> , 2017, 176, 1376-1378.	1.5	10
80	Mass spectrometry-based proteomics reveals the distinct nature of the skin proteomes of photoaged compared to intrinsically aged skin. <i>International Journal of Cosmetic Science</i> , 2019, 41, 118-131.	2.6	10
81	UV radiation recruits CD4 + GATA3 + and CD8 + GATA3 + T cells while altering the lipid microenvironment following inflammatory resolution in human skin in vivo. <i>Clinical and Translational Immunology</i> , 2020, 9, e01104.	3.8	10
82	A new in vitro assay to test UVR protection of dermal extracellular matrix components by a flat spectrum sunscreen. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 175, 58-64.	3.8	9
83	Peptide location fingerprinting reveals modification-associated biomarker candidates of ageing in human tissue proteomes. <i>Aging Cell</i> , 2021, 20, e13355.	6.7	9
84	Polarisation-sensitive optical coherence tomography measurement of retardance in fibrosis, a non-invasive biomarker in patients with systemic sclerosis. <i>Scientific Reports</i> , 2022, 12, 2893.	3.3	9
85	Frontiers in translational systemic sclerosis research: A focus on the unmet 'cutaneous' clinical needs (Viewpoint). <i>Experimental Dermatology</i> , 2020, 29, 1144-1153.	2.9	8
86	Heterogeneity of fibrillin-rich microfibrils extracted from human skin of diverse ethnicity. <i>Journal of Anatomy</i> , 2020, 237, 478-486.	1.5	8
87	Ultraviolet radiation-induced degradation of dermal extracellular matrix and protection by green tea catechins: a randomized controlled trial. <i>Clinical and Experimental Dermatology</i> , 2022, 47, 1314-1323.	1.3	8
88	Stretching the Point: An Association between the Occurrence of Striae and Pelvic Relaxation?. <i>Journal of Investigative Dermatology</i> , 2006, 126, 1688-1689.	0.7	7
89	HaCaT keratinocytes express functional receptors for thyroid-stimulating hormone. <i>Journal of Dermatological Science</i> , 2010, 59, 52-55.	1.9	7
90	Wound fluid sampling methods for proteomic studies: A scoping review. <i>Wound Repair and Regeneration</i> , 2022, , .	3.0	7

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91	Photoprotection conferred by low level summer sunlight exposures against pro-inflammatory UVR insult. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 810-818.	2.9	6
92	Influence of Eicosapentaenoic Acid, an Omega-3 Fatty Acid, on Ultraviolet-B Generation of Prostaglandin ₂ and Proinflammatory Cytokines Interleukin ¹ , Tumor Necrosis Factor ^α , Interleukin ⁶ and Interleukin ⁸ in Human Skin <i>In Vivo</i> . <i>Photochemistry and Photobiology</i> , 2004, 80, 231-235.	2.5	5
93	Quantifying Micro-mechanical Properties of Soft Biological Tissues with Scanning Acoustic Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1301, 181.	0.1	5
94	Differential reorganisation of cutaneous elastic fibres: a comparison of the in vivo effects of broadband ultraviolet B versus solar simulated radiation. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 889-895.	2.9	5
95	Multifaceted amelioration of cutaneous photoageing by (0.3%) retinol. <i>International Journal of Cosmetic Science</i> , 2022, 44, 625-635.	2.6	5
96	Remodelling of elastic fibres in <i>institriae gravidarum</i> . <i>British Journal of Dermatology</i> , 2015, 173, 1359-1360.	1.5	4
97	Remodelling of fibrillin-rich microfibrils by solar-simulated radiation: impact of skin ethnicity. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 1160-1167.	2.9	4
98	Prevalence of Atrophic and Hypertrophic Skin Ageing Phenotypes: A UK-based Observational Study. <i>Acta Dermato-Venereologica</i> , 2020, 100, adv00347.	1.3	4
99	Influence of menopause and hormone replacement therapy on epidermal ageing and skin biomechanical function. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2022, 36, .	2.4	4
100	Liver X receptor ¹ : maintenance of epidermal expression in intrinsic and extrinsic skin aging. <i>Age</i> , 2009, 31, 365-372.	3.0	2
101	Evidence for an "anti-ageing" product may not be so clear as it appears: reply from authors. <i>British Journal of Dermatology</i> , 2009, 161, 1208-1209.	1.5	2
102	Cover Image: Capturing the architectural beauty of the dermal elastic fibre network. <i>British Journal of Dermatology</i> , 2017, 177, 1141-1142.	1.5	2
103	Should we look beyond the interferon signature in chilblain-like lesions associated with COVID-19?. <i>British Journal of Dermatology</i> , 2021, 185, 1090-1091.	1.5	2
104	Fibulin-2 and its association with fibrillin-rich microfibrils in the papillary dermis of photoaged skin. <i>British Journal of Dermatology</i> , 2002, 146, 712-712.	1.5	1
105	062 Stress perception impacts on clinical signs of skin ageing and modifies the epigenome. <i>Journal of Investigative Dermatology</i> , 2016, 136, S171.	0.7	1
106	Diverse methodologies for assessing photoaged skin. <i>British Journal of Dermatology</i> , 2016, 174, 487-488.	1.5	1
107	Can Skin Aging Contribute to Systemic Inflammation?. <i>Journal of Investigative Dermatology</i> , 2022, 142, 484-485.	0.7	1
108	Effects vs Improvement of Photoaged Skin"Reply. <i>Archives of Dermatology</i> , 2010, 146, .	1.4	0

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109	Melatonin's potential as an antiageing intervention. <i>British Journal of Dermatology</i> , 2014, 170, 235-236.	1.5	0
110	Scanning acoustic microscopy of biological cryosections: the effect of local thickness on apparent acoustic wave speed. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1621, 143-148.	0.1	0
111	Cause or consequence? Identification of collagen remodelling in striae. <i>British Journal of Dermatology</i> , 2018, 178, 590-591.	1.5	0
112	The role of fibroblasts in the pathogenesis of linear morphoea: targeting the secretome. <i>British Journal of Dermatology</i> , 2019, 180, 985-987.	1.5	0
113	Identification of novel skin ageing genes: evidence from across the pigmentary continuum. <i>British Journal of Dermatology</i> , 2021, 185, 883-884.	1.5	0
114	Restoration of collagen and elastic fibre networks following treatment of photoaged skin with SerA'nesse, a novel over-the-counter anti-ageing product. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2022, 36, e43.	2.4	0
115	Heterogeneity of dermal fibroblasts: skin equivalent models that aim to recreate the cutaneous microenvironment. <i>British Journal of Dermatology</i> , 2018, 179, 248-250.	1.5	0