

# Taihao Quan

## List of Publications by Year in descending order

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63  
papers

4,878  
citations

94433

37  
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123424

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63  
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63  
docs citations

63  
times ranked

4835  
citing authors

#	ARTICLE	IF	CITATIONS
1	Matrix-Degrading Metalloproteinases in Photoaging. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2009, 14, 20-24.	0.8	548
2	Collagen Fragmentation Promotes Oxidative Stress and Elevates Matrix Metalloproteinase-1 in Fibroblasts in Aged Human Skin. <i>American Journal of Pathology</i> , 2009, 174, 101-114.	3.8	356
3	Solar Ultraviolet Irradiation Reduces Collagen in Photoaged Human Skin by Blocking Transforming Growth Factor- $\beta$ 2 Type II Receptor/Smad Signaling. <i>American Journal of Pathology</i> , 2004, 165, 741-751.	3.8	315
4	c-Jun $\alpha$ -dependent inhibition of cutaneous procollagen transcription following ultraviolet irradiation is reversed by all-trans retinoic acid. <i>Journal of Clinical Investigation</i> , 2000, 106, 663-670.	8.2	270
5	Role of Age-Associated Alterations of the Dermal Extracellular Matrix Microenvironment in Human Skin Aging: A Mini-Review. <i>Gerontology</i> , 2015, 61, 427-434.	2.8	261
6	Extracellular matrix regulation of fibroblast function: redefining our perspective on skin aging. <i>Journal of Cell Communication and Signaling</i> , 2018, 12, 35-43.	3.4	196
7	Reduced Expression of Connective Tissue Growth Factor (CTGF/CCN2) Mediates Collagen Loss in Chronologically Aged Human Skin. <i>Journal of Investigative Dermatology</i> , 2010, 130, 415-424.	0.7	178
8	Enhancing Structural Support of the Dermal Microenvironment Activates Fibroblasts, Endothelial Cells, and Keratinocytes in Aged Human Skin In Vivo. <i>Journal of Investigative Dermatology</i> , 2013, 133, 658-667.	0.7	167
9	Ultraviolet Irradiation Blocks Cellular Responses to Transforming Growth Factor- $\beta$ 2 by Down-regulating Its Type-II Receptor and Inducing Smad7. <i>Journal of Biological Chemistry</i> , 2001, 276, 26349-26356.	3.4	154
10	Ultraviolet Irradiation Alters Transforming Growth Factor $\beta$ 2/Smad Pathway in Human Skin In Vivo. <i>Journal of Investigative Dermatology</i> , 2002, 119, 499-506.	0.7	146
11	Elevated Matrix Metalloproteinases and Collagen Fragmentation in Photodamaged Human Skin: Impact of Altered Extracellular Matrix Microenvironment on Dermal Fibroblast Function. <i>Journal of Investigative Dermatology</i> , 2013, 133, 1362-1366.	0.7	143
12	Elevated Cysteine-Rich 61 Mediates Aberrant Collagen Homeostasis in Chronologically Aged and Photoaged Human Skin. <i>American Journal of Pathology</i> , 2006, 169, 482-490.	3.8	105
13	Epidermal Growth Factor Receptor-dependent, NF- $\kappa$ B-independent Activation of the Phosphatidylinositol 3-Kinase/Akt Pathway Inhibits Ultraviolet Irradiation-induced Caspases-3, -8, and -9 in Human Keratinocytes. <i>Journal of Biological Chemistry</i> , 2003, 278, 45737-45745.	3.4	95
14	YAP/TAZ regulates TGF- $\beta$ 2/Smad3 signaling by induction of Smad7 via AP-1 in human skin dermal fibroblasts. <i>Cell Communication and Signaling</i> , 2018, 16, 18.	6.5	93
15	CCN1 secretion and cleavage regulate the lung epithelial cell functions after cigarette smoke. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L326-L337.	2.9	88
16	Reduction of fibroblast size/mechanical force down-regulates TGF- $\beta$ 2 type II receptor: implications for human skin aging. <i>Aging Cell</i> , 2016, 15, 67-76.	6.7	84
17	Alterations in extracellular matrix composition during aging and photoaging of the skin. <i>Matrix Biology Plus</i> , 2020, 8, 100041.	3.5	83
18	Ultraviolet Irradiation Induces Smad7 via Induction of Transcription Factor AP-1 in Human Skin Fibroblasts. <i>Journal of Biological Chemistry</i> , 2005, 280, 8079-8085.	3.4	82

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19	Connective Tissue Growth Factor: Expression in Human Skin In Vivo and Inhibition by Ultraviolet Irradiation. <i>Journal of Investigative Dermatology</i> , 2002, 118, 402-408.	0.7	73
20	Ultraviolet Irradiation Induces CYR61/CCN1, a Mediator of Collagen Homeostasis, through Activation of Transcription Factor AP-1 in Human Skin Fibroblasts. <i>Journal of Investigative Dermatology</i> , 2010, 130, 1697-1706.	0.7	73
21	Alterations of Dermal Connective Tissue Collagen in Diabetes: Molecular Basis of Aged-Appearing Skin. <i>PLoS ONE</i> , 2016, 11, e0153806.	2.5	70
22	Molecular basis of retinol anti-ageing properties in naturally aged human skin <i>in vivo</i> . <i>International Journal of Cosmetic Science</i> , 2017, 39, 56-65.	2.6	67
23	Oxidative Stress and Human Skin Connective Tissue Aging. <i>Cosmetics</i> , 2016, 3, 28.	3.3	66
24	Expression of catalytically active matrix metalloproteinase-1 in dermal fibroblasts induces collagen fragmentation and functional alterations that resemble aged human skin. <i>Aging Cell</i> , 2013, 12, 661-671.	6.7	64
25	Age-related reduction of dermal fibroblast size upregulates multiple matrix metalloproteinases as observed in aged human skin <i>in vivo</i> . <i>British Journal of Dermatology</i> , 2017, 177, 1337-1348.	1.5	62
26	UV-A1 Phototherapy Improves Nephrogenic Fibrosing Dermopathy. <i>Archives of Dermatology</i> , 2004, 140, 1322.	1.4	60
27	Oxidative exposure impairs TGF- $\beta$ 2 pathway via reduction of type II receptor and SMAD3 in human skin fibroblasts. <i>Age</i> , 2014, 36, 9623.	3.0	60
28	Age-associated reduction of cell spreading induces mitochondrial DNA common deletion by oxidative stress in human skin dermal fibroblasts: implication for human skin connective tissue aging. <i>Journal of Biomedical Science</i> , 2015, 22, 62.	7.0	60
29	Dermal fibroblast expression of stromal cell-derived factor-1 (SDF-1) promotes epidermal keratinocyte proliferation in normal and diseased skin. <i>Protein and Cell</i> , 2015, 6, 890-903.	11.0	60
30	Elevated YAP and Its Downstream Targets CCN1 and CCN2 in Basal Cell Carcinoma. <i>American Journal of Pathology</i> , 2014, 184, 937-943.	3.8	58
31	Effect of Increased Pigmentation on the Antifibrotic Response of Human Skin to UV-A1 Phototherapy. <i>Archives of Dermatology</i> , 2008, 144, 851-8.	1.4	50
32	CCN1 contributes to skin connective tissue aging by inducing age-associated secretory phenotype in human skin dermal fibroblasts. <i>Journal of Cell Communication and Signaling</i> , 2011, 5, 201-207.	3.4	48
33	Cysteine-rich protein 61 (CCN1) mediates replicative senescence-associated aberrant collagen homeostasis in human skin fibroblasts. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 3011-3018.	2.6	44
34	Age-associated reduction of cellular spreading/mechanical force upregulates matrix metalloproteinase-1 expression and collagen fibril fragmentation via c-Jun/AP-1 in human dermal fibroblasts. <i>Aging Cell</i> , 2014, 13, 1028-1037.	6.7	44
35	Oxidant Exposure Induces Cysteine-Rich Protein 61 (CCN1) via c-Jun/AP-1 to Reduce Collagen Expression in Human Dermal Fibroblasts. <i>PLoS ONE</i> , 2014, 9, e115402.	2.5	43
36	A mouse model of skin aging: Fragmentation of dermal collagen fibrils and reduced fibroblast spreading due to expression of human matrix metalloproteinase-1. <i>Journal of Dermatological Science</i> , 2015, 78, 79-82.	1.9	41

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37	PI3K/mTOR dual inhibitor BEZ235 and histone deacetylase inhibitor Trichostatin A synergistically exert anti-tumor activity in breast cancer. <i>Oncotarget</i> , 2017, 8, 11937-11949.	1.8	41
38	Elevated cysteine-rich protein 61 (CCN1) promotes skin aging via upregulation of IL-1 $\beta$ in chronically sun-exposed human skin. <i>Age</i> , 2014, 36, 353-364.	3.0	39
39	Retinoids suppress cysteine-rich protein 61 (CCN1), a negative regulator of collagen homeostasis, in skin equivalent cultures and aged human skin <i>in vivo</i> . <i>Experimental Dermatology</i> , 2011, 20, 572-576.	2.9	36
40	Actin cytoskeleton assembly regulates collagen production via TGF $\beta$ type II receptor in human skin fibroblasts. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 4085-4096.	3.6	35
41	Superior efficacy of co-treatment with the dual PI3K/mTOR inhibitor BEZ235 and histone deacetylase inhibitor Trichostatin A against NSCLC. <i>Oncotarget</i> , 2016, 7, 60169-60180.	1.8	34
42	Cysteine-rich Protein 61 (CCN1) Domain-specific Stimulation of Matrix Metalloproteinase-1 Expression through $\alpha$ 3 Integrin in Human Skin Fibroblasts. <i>Journal of Biological Chemistry</i> , 2013, 288, 12386-12394.	3.4	32
43	Smad3-dependent regulation of type I collagen in human dermal fibroblasts: Impact on human skin connective tissue aging. <i>Journal of Dermatological Science</i> , 2016, 83, 80-83.	1.9	29
44	Cloning and Characterization of the Human Protein Kinase C- $\delta$ Promoter. <i>Journal of Biological Chemistry</i> , 1999, 274, 28566-28574.	3.4	24
45	Expression of human cytochrome P450 1A1 in DNA repair deficient and proficient human fibroblasts stably transformed with an inducible expression vector. <i>Carcinogenesis</i> , 1993, 14, 1643-1649.	2.8	23
46	Expression of CCN family of genes in human skin <i>in vivo</i> and alterations by solar-simulated ultraviolet irradiation. <i>Journal of Cell Communication and Signaling</i> , 2009, 3, 19-23.	3.4	23
47	Receptor Type Protein Tyrosine Phosphatase-Kappa Mediates Cross-Talk between Transforming Growth Factor-Beta and Epidermal Growth Factor Receptor Signaling Pathways in Human Keratinocytes. <i>Molecular Biology of the Cell</i> , 2010, 21, 29-35.	2.1	23
48	Ezrin regulates skin fibroblast size/mechanical properties and YAP-dependent proliferation. <i>Journal of Cell Communication and Signaling</i> , 2018, 12, 549-560.	3.4	15
49	Cell-size-dependent upregulation of HGF expression in dermal fibroblasts: Impact on human skin connective tissue aging. <i>Journal of Dermatological Science</i> , 2017, 88, 289-297.	1.9	14
50	Differential mutagenicity and cytotoxicity of ( $\pm$ )-benzo[a]pyrene-trans-7,8-dihydrodiol and ( $\pm$ )-anti-benzo[a]pyrene-trans-7,8-dihydrodiol-9, 10-epoxide in genetically engineered human fibroblasts. <i>Molecular Carcinogenesis</i> , 1995, 12, 91-102.	2.7	13
51	Preferential DNA damage in the p53 gene by benzo[a]pyrene metabolites in cytochrome P4501A1-expressing xeroderma pigmentosum group A cells. , 1996, 16, 32-43.		13
52	Dermal Fibroblast CCN1 Expression in Mice Recapitulates Human Skin Dermal Aging. <i>Journal of Investigative Dermatology</i> , 2021, 141, 1007-1016.	0.7	11
53	Cytotoxicity and genotoxicity of ( $\pm$ )-benzo[a]pyrene-trans-7,8-dihydrodiol in CYP1A1-expressing human fibroblasts quantitatively correlate with CYP1A1 expression level. <i>Carcinogenesis</i> , 1994, 15, 1827-1832.	2.8	10
54	Physical properties of the photodamaged human skin dermis: Rougher collagen surface and stiffer/harder mechanical properties. <i>Experimental Dermatology</i> , 2019, 28, 914-921.	2.9	10

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55	Smad3-dependent CCN2 mediates fibronectin expression in human skin dermal fibroblasts. PLoS ONE, 2017, 12, e0173191.	2.5	10
56	Ultraviolet irradiation represses TGF- $\beta$ 2 type II receptor transcription through a 38bp sequence in the proximal promoter in human skin fibroblasts. Experimental Dermatology, 2014, 23, 2-6.	2.9	8
57	Age-related elevation of HGF is driven by the reduction of fibroblast size in a YAP/TAZ/CCN2 axis-dependent manner. Journal of Dermatological Science, 2021, 102, 36-46.	1.9	7
58	Reduced expression of Collagen 17A1 in naturally aged, photoaged, and UV-irradiated human skin in vivo: Potential links to epidermal aging. Journal of Cell Communication and Signaling, 2022, 16, 421-432.	3.4	7
59	CYR61/CCN1: A Novel Mediator of Epidermal Hyperplasia and Inflammation in Psoriasis?. Journal of Investigative Dermatology, 2015, 135, 2562-2564.	0.7	5
60	Age-Related Downregulation of CCN2 Is Regulated by Cell Size in a YAP/TAZ-Dependent Manner in Human Dermal Fibroblasts: Impact on Dermal Aging. JID Innovations, 2022, 2, 100111.	2.4	5
61	Oxidative stress and CCN1 protein in human skin connective tissue aging. AIMS Molecular Science, 2016, 3, 269-279.	0.5	3
62	Progerin mRNA expression is elevated in aged human dermis and impairs TGF- $\beta$ 2/Smad signaling. Journal of Dermatological Science, 2021, 103, 49-52.	1.9	1
63	Gene Expression of CCN Family Members in Young and Aged Human Skin In Vivo. , 2010, , 133-140.		0