

# Karin Scharffetter-Kochanek

## List of Publications by Year in descending order

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72  
papers

4,662  
citations

136950

32  
h-index

106344

65  
g-index

75  
all docs

75  
docs citations

75  
times ranked

6847  
citing authors

#	ARTICLE	IF	CITATIONS
1	An unrestrained proinflammatory M1 macrophage population induced by iron impairs wound healing in humans and mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 985-997.	8.2	861
2	p16INK4A is a robust in vivo biomarker of cellular aging in human skin. <i>Aging Cell</i> , 2006, 5, 379-389.	6.7	474
3	Spontaneous Skin Ulceration and Defective T Cell Function in CD18 Null Mice. <i>Journal of Experimental Medicine</i> , 1998, 188, 119-131.	8.5	352
4	UVA-INDUCED AUTOCRINE STIMULATION OF FIBROBLAST-DERIVED COLLAGENASE/MMP-1 BY INTERRELATED LOOPS OF INTERLEUKIN-1 and INTERLEUKIN-6. <i>Photochemistry and Photobiology</i> , 1994, 59, 550-556.	2.5	254
5	Activated macrophages are essential in a murine model for T cell-mediated chronic psoriasiform skin inflammation. <i>Journal of Clinical Investigation</i> , 2006, 116, 2105-2114.	8.2	220
6	TSG-6 Released from Intradermally Injected Mesenchymal Stem Cells Accelerates Wound Healing and Reduces Tissue Fibrosis in Murine Full-Thickness Skin Wounds. <i>Journal of Investigative Dermatology</i> , 2014, 134, 526-537.	0.7	195
7	UVA irradiation stimulates the synthesis of various matrix-metalloproteinases (MMPs) in cultured human fibroblasts. <i>Experimental Dermatology</i> , 1993, 2, 92-97.	2.9	169
8	Disclosure of the Culprits: Macrophages—Versatile Regulators of Wound Healing. <i>Advances in Wound Care</i> , 2013, 2, 357-368.	5.1	162
9	Wound-healing defect of CD18 <sup>-/-</sup> mice due to a decrease in TGF- $\beta$ 1 and myofibroblast differentiation. <i>EMBO Journal</i> , 2005, 24, 3400-3410.	7.8	142
10	Suppression of Neutrophil-Mediated Tissue Damage—A Novel Skill of Mesenchymal Stem Cells. <i>Stem Cells</i> , 2016, 34, 2393-2406.	3.2	121
11	Singlet oxygen is an early intermediate in cytokine-dependent ultraviolet-A induction of interstitial collagenase in human dermal fibroblasts in vitro. <i>FEBS Letters</i> , 1997, 413, 239-242.	2.8	119
12	Connective Tissue and Fibroblast Senescence in Skin Aging. <i>Journal of Investigative Dermatology</i> , 2021, 141, 985-992.	0.7	108
13	The effect of adipose tissue derived MSCs delivered by a chemically defined carrier on full-thickness cutaneous wound healing. <i>Biomaterials</i> , 2013, 34, 2501-2515.	11.4	97
14	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. <i>Aging Cell</i> , 2011, 10, 239-254.	6.7	96
15	A role for $\beta$ 2 integrins (CD11/CD18) in the regulation of cytokine gene expression of polymorphonuclear neutrophils during the inflammatory response. <i>FASEB Journal</i> , 1999, 13, 1855-1865.	0.5	95
16	A model of the onset of the senescence associated secretory phenotype after DNA damage induced senescence. <i>PLoS Computational Biology</i> , 2017, 13, e1005741.	3.2	57
17	Mesenchymal Stem Cells Adaptively Respond to Environmental Cues Thereby Improving Granulation Tissue Formation and Wound Healing. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 697.	3.7	54
18	ABC5 Identifies Immunoregulatory Dermal Cells. <i>Cell Reports</i> , 2015, 12, 1564-1574.	6.4	51

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19	Topical silver and gold nanoparticles complexed with <i>Cornus mas</i> suppress inflammation in human psoriasis plaques by inhibiting NF- $\kappa$ B activity. <i>Experimental Dermatology</i> , 2018, 27, 1166-1169.	2.9	51
20	Modeling trauma in rats: similarities to humans and potential pitfalls to consider. <i>Journal of Translational Medicine</i> , 2019, 17, 305.	4.4	51
21	DNA Damage-Induced HSPC Malfunction Depends on ROS Accumulation Downstream of IFN-1 Signaling and Bid Mobilization. <i>Cell Stem Cell</i> , 2016, 19, 752-767.	11.1	48
22	Iron and iron-dependent reactive oxygen species in the regulation of macrophages and fibroblasts in non-healing chronic wounds. <i>Free Radical Biology and Medicine</i> , 2019, 133, 262-275.	2.9	47
23	Senescent fibroblast-derived Chemerin promotes squamous cell carcinoma migration. <i>Oncotarget</i> , 2016, 7, 83554-83569.	1.8	44
24	Cockayne syndrome protein A is a transcription factor of RNA polymerase I and stimulates ribosomal biogenesis and growth. <i>Cell Cycle</i> , 2014, 13, 2029-2037.	2.6	43
25	Ultraviolet-B induction of interstitial collagenase and stromelysin-1 occurs in human dermal fibroblasts via an autocrine interleukin-6-dependent loop. <i>FEBS Letters</i> , 1999, 449, 36-40.	2.8	42
26	Loss of Proteostasis Is a Pathomechanism in Cockayne Syndrome. <i>Cell Reports</i> , 2018, 23, 1612-1619.	6.4	42
27	Newly Defined ATP-Binding Cassette Subfamily B Member 5 Positive Dermal Mesenchymal Stem Cells Promote Healing of Chronic Iron-Overload Wounds via Secretion of Interleukin-1 Receptor Antagonist. <i>Stem Cells</i> , 2019, 37, 1057-1074.	3.2	41
28	TLR4-dependent shaping of the wound site by MSCs accelerates wound healing. <i>EMBO Reports</i> , 2020, 21, e48777.	4.5	41
29	In experimental leishmaniasis deficiency of CD18 results in parasite dissemination associated with altered macrophage functions and incomplete Th1 cell response. <i>European Journal of Immunology</i> , 2000, 30, 2729-2740.	2.9	40
30	Superoxide anion radicals induce IGF-1 resistance through concomitant activation of PTP1B and PTEN. <i>EMBO Molecular Medicine</i> , 2015, 7, 59-77.	6.9	37
31	In vivo safety profile and biodistribution of GMP-manufactured human skin-derived ABCB5-positive mesenchymal stromal cells for use in clinical trials. <i>Cytotherapy</i> , 2019, 21, 546-560.	0.7	35
32	Impairment of neutrophil emigration in CD18-null mice. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 276, G1125-G1130.	3.4	33
33	Concomitant sensitization to high and low molecular-weight heparins, heparinoid and pentosanpolysulfate. <i>Contact Dermatitis</i> , 1998, 39, 88-89.	1.4	31
34	Ribosomal transcription is regulated by PGC-1alpha and disturbed in Huntington's disease. <i>Scientific Reports</i> , 2017, 7, 8513.	3.3	31
35	The first peak of the UVB irradiation-dependent biphasic induction of vascular endothelial growth factor (VEGF) is due to phosphorylation of the epidermal growth factor receptor and independent of autocrine transforming growth factor $\beta$ . <i>FEBS Letters</i> , 2000, 474, 195-200.	2.8	27
36	JunB defines functional and structural integrity of the epidermo-pilosebaceous unit in the skin. <i>Nature Communications</i> , 2018, 9, 3425.	12.8	26

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37	Local and transient inhibition of p21 expression ameliorates age-related delayed wound healing. <i>Wound Repair and Regeneration</i> , 2020, 28, 49-60.	3.0	26
38	Ex vivo-expanded highly pure ABCB5+ mesenchymal stromal cells as Good Manufacturing Practice-compliant autologous advanced therapy medicinal product for clinical use: process validation and first in-human data. <i>Cytotherapy</i> , 2021, 23, 165-175.	0.7	26
39	Alpha-Ketoglutarate Curbs Differentiation and Induces Cell Death in Mesenchymal Stromal Precursors with Mitochondrial Dysfunction. <i>Stem Cells</i> , 2017, 35, 1704-1718.	3.2	25
40	A Novel S100A8/A9 Induced Fingerprint of Mesenchymal Stem Cells associated with Enhanced Wound Healing. <i>Scientific Reports</i> , 2018, 8, 6205.	3.3	24
41	UVB exposure in vivo leads to an IL-6 surge within the skin. <i>Experimental Dermatology</i> , 2017, 26, 830-832.	2.9	23
42	MSCs rescue impaired wound healing in a murine LAD1 model by adaptive responses to low TGF- $\beta$ 1 levels. <i>EMBO Reports</i> , 2020, 21, e49115.	4.5	19
43	Characterization of rapid neutrophil extracellular trap formation and its cooperation with phagocytosis in human neutrophils. <i>Discoveries</i> , 2014, 2, e19.	2.3	18
44	Uncoupling protein 2 protects mice from aging. <i>Mitochondrion</i> , 2016, 30, 42-50.	3.4	17
45	Persistent JunB activation in fibroblasts disrupts stem cell niche interactions enforcing skin aging. <i>Cell Reports</i> , 2021, 36, 109634.	6.4	17
46	Divalent cations (Mg <sup>2+</sup> , Ca <sup>2+</sup> ) differentially influence the beta1 integrin-mediated migration of human fibroblasts and keratinocytes to different extracellular matrix proteins. <i>Experimental Dermatology</i> , 1995, 4, 130-137.	2.9	16
47	Cockayne Syndrome-Associated CSA and CSB Mutations Impair Ribosome Biogenesis, Ribosomal Protein Stability, and Global Protein Folding. <i>Cells</i> , 2021, 10, 1616.	4.1	14
48	Overexpression of manganese superoxide dismutase in human dermal fibroblasts enhances the contraction of free floating collagen lattice: implications for ageing and hyperplastic scar formation. <i>Archives of Dermatological Research</i> , 2009, 301, 273-287.	1.9	12
49	Neuronal redox imbalance results in altered energy homeostasis and early postnatal lethality. <i>FASEB Journal</i> , 2015, 29, 2843-2858.	0.5	12
50	Allogeneic ABCB5+ Mesenchymal Stem Cells for Treatment-Refractory Chronic Venous Ulcers: A Phase I/IIa Clinical Trial. <i>JID Innovations</i> , 2022, 2, 100067.	2.4	12
51	Angiogenin Released from ABCB5+ Stromal Precursors Improves Healing of Diabetic Wounds by Promoting Angiogenesis. <i>Journal of Investigative Dermatology</i> , 2022, 142, 1725-1736.e10.	0.7	11
52	Nucleolar TFIIE plays a role in ribosomal biogenesis and performance. <i>Nucleic Acids Research</i> , 2021, 49, 11197-11210.	14.5	9
53	In vitro Demonstration and Quantification of Neutrophil Extracellular Trap Formation. <i>Bio-protocol</i> , 2017, 7, e2386.	0.4	8
54	ATM is required for SOD2 expression and homeostasis within the mammary gland. <i>Breast Cancer Research and Treatment</i> , 2017, 166, 725-741.	2.5	5

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55	How can nanoparticle-based technologies revolutionize the topical therapy in psoriasis?. <i>Experimental Dermatology</i> , 2020, 29, 1097-1103.	2.9	5
56	Accelerated aging phenotype in mice with conditional deficiency for mitochondrial superoxide dismutase in the connective tissue. <i>Aging Cell</i> , 2011, 10, 912-912.	6.7	4
57	Cellular sensitivity to UV-irradiation is mediated by RNA polymerase I transcription. <i>PLoS ONE</i> , 2017, 12, e0179843.	2.5	4
58	Mesenchymal Stem Cells in Wound Repair, Tissue Homeostasis, and Aging. , 2015, , 287-318.		4
59	Intermittent vemurafenib therapy in malignant melanoma. <i>JDDG - Journal of the German Society of Dermatology</i> , 2017, 15, 451-454.	0.8	3
60	Particular features in the diagnosis and management of Î±-Gal syndrome. <i>Allergo Journal International</i> , 2016, 25, 251-255.	2.0	2
61	Self-detection frequency and recognition patterns in medium to high-risk cutaneous melanoma patients. <i>JDDG - Journal of the German Society of Dermatology</i> , 2017, 15, 61-67.	0.8	2
62	Slowly Repaired Bulky DNA Damages Modulate Cellular Redox Environment Leading to Premature Senescence. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-13.	4.0	2
63	Mouse Model of Immune Complex-mediated Vasculitis in Dorsal Skin and Assessment of the Neutrophil-mediated Tissue Damage. <i>Bio-protocol</i> , 2017, 7, e2660.	0.4	2
64	Successful targeted cytokine blockade in a case of aseptic abscess syndrome. <i>JDDG - Journal of the German Society of Dermatology</i> , 2020, 18, 908-910.	0.8	1
65	Giant cell arteritis with extensive scalp necrosis: A diagnostic and therapeutic challenge. <i>Indian Journal of Dermatology, Venereology and Leprology</i> , 2016, 82, 539.	0.6	1
66	A newly adapted pulsed-field gel electrophoresis technique allows to detect distinct types of DNA damage at low frequencies in human dermal fibroblasts upon exposure to non-toxic H <sub>2</sub> O <sub>2</sub> concentrations. <i>Free Radical Research</i> , 1999, 31, 405-418.	3.3	0
67	B21...Ribosomal transcription is regulated by PGC-1alpha and disturbed in huntingtonâ€™s disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A16.2-A16.	1.9	0
68	Special section: Replication stress, a threat to the nuclear and mitochondrial genome. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2018, 808, 53-55.	1.0	0
69	Slowly growing exophytic hyperpigmented nodule of the calf. <i>JDDG - Journal of the German Society of Dermatology</i> , 2018, 16, 798-801.	0.8	0
70	Targeting NF-ÎºB in macrophages alleviates skin inflammation in a mouse model of psoriasis. <i>FASEB Journal</i> , 2010, 24, 489.10.	0.5	0
71	Endothelial dysfunction driven by mitochondrial reactive oxygen species â€“ proof of concept studies in CypD <sup>+/+</sup> / <sup>-/-</sup> mice. <i>FASEB Journal</i> , 2013, 27, 604.1.	0.5	0
72	3, 3â€™- (3, 5-DCPBC) Down-Regulates Multiple Phosphokinase Dependent Signal Transduction Pathways in Malignant Melanoma Cells through Specific Diminution of EGFR Y1086 Phosphorylation. <i>Molecules</i> , 2022, 27, 1172.	3.8	0