

# Nicolette N Houreld

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76  
papers

2,074  
citations

25  
h-index

43  
g-index

84  
ext. papers

2,579  
ext. citations

5  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
76	Cellular Signalling and Photobiomodulation in Chronic Wound Repair. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
75	Photobiomodulation in diabetic wound healing: A review of red and near-infrared wavelength applications. <i>Cell Biochemistry and Function</i> , <b>2021</b> , 39, 596-612	4.2	8
74	Synthesis of Zinc Oxide Nanoparticles Using Root Extract and Their Activity against Pathogenic Bacteria. <i>Molecules</i> , <b>2021</b> , 26,	4.8	18
73	Effect of photobiomodulation on cellular migration and survival in diabetic and hypoxic diabetic wounded fibroblast cells. <i>Lasers in Medical Science</i> , <b>2021</b> , 36, 365-374	3.1	2
72	Photobiomodulation reduces oxidative stress in diabetic wounded fibroblast cells by inhibiting the FOXO1 signaling pathway. <i>Journal of Cell Communication and Signaling</i> , <b>2021</b> , 15, 195-206	5.2	5
71	In Vitro Wound Healing Potential of Photobiomodulation Is Possibly Mediated by Its Stimulatory Effect on AKT Expression in Adipose-Derived Stem Cells. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 6664627	6.7	3
70	Levels of Cyclooxygenase 2, Interleukin-6, and Tumour Necrosis Factor- in Fibroblast Cell Culture Models after Photobiomodulation at 660 nm. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2021</b> , 2021, 6667812	6.7	2
69	Curcumin and Gymnema sylvestre extract loaded graphene oxide-polyhydroxybutyrate-sodium alginate composite for diabetic wound regeneration. <i>Reactive and Functional Polymers</i> , <b>2020</b> , 154, 104671	4.6	12
68	Photobiomodulation and the expression of genes related to the JAK/STAT signalling pathway in wounded and diabetic wounded cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2020</b> , 204, 111791	6.7	8
67	Effect of photobiomodulation therapy on inflammatory cytokines in healing dynamics of diabetic wounds: a systematic review of preclinical studies. <i>Archives of Physiology and Biochemistry</i> , <b>2020</b> , 1-8	2.2	2
66	Photobiomodulation at 660 nm Stimulates Fibroblast Differentiation. <i>Lasers in Surgery and Medicine</i> , <b>2020</b> , 52, 671-681	3.6	16
65	The qualification and training of laser/intense pulse light hair removal operators within South Africa. <i>Journal of Cosmetic Dermatology</i> , <b>2020</b> , 19, 1980-1989	2.5	0
64	Selective Laser Efficiency of Green-Synthesized Silver Nanoparticles by and Its Wound Healing Activities in Normal Wounded and Diabetic Wounded Fibroblast Cells: In vitro Studies. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 6855-6870	7.3	4
63	Natural deep eutectic solvent supported targeted solid-liquid polymer carrier for breast cancer therapy.. <i>RSC Advances</i> , <b>2020</b> , 10, 36989-37004	3.7	2
62	Biopolymer-Based Composites for Medical Applications <b>2020</b> , 20-28		2
61	The "in's and outs" of laser hair removal: a mini review. <i>Journal of Cosmetic and Laser Therapy</i> , <b>2019</b> , 21, 316-322	1.8	9
60	Role of the PI3K/AKT (mTOR and GSK3 $\beta$ ) signalling pathway and photobiomodulation in diabetic wound healing. <i>Cytokine and Growth Factor Reviews</i> , <b>2019</b> , 50, 52-59	17.9	40

59	Understanding the perspectives of forkhead transcription factors in delayed wound healing. <i>Journal of Cell Communication and Signaling</i> , <b>2019</b> , 13, 151-162	5.2	9
58	The link between advanced glycation end products and apoptosis in delayed wound healing. <i>Cell Biochemistry and Function</i> , <b>2019</b> , 37, 432-442	4.2	16
57	Genetic Aberrations Associated with Photodynamic Therapy in Colorectal Cancer Cells. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	8
56	The use of lasers and light sources in skin rejuvenation. <i>Clinics in Dermatology</i> , <b>2019</b> , 37, 358-364	3	12
55	Healing Effects of Photobiomodulation on Diabetic Wounds. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 5114.6	4.6	5
54	The Influence of Light on Reactive Oxygen Species and NF-B in Disease Progression. <i>Antioxidants</i> , <b>2019</b> , 8,	7.1	22
53	Therapeutic Efficacy of Home-Use Photobiomodulation Devices: A Systematic Literature Review. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , <b>2019</b> , 37, 4-16	2.8	17
52	Effect of 660nm visible red light on cell proliferation and viability in diabetic models in vitro under stressed conditions. <i>Lasers in Medical Science</i> , <b>2018</b> , 33, 1085-1093	3.1	16
51	Recent advances on silver nanoparticle and biopolymer-based biomaterials for wound healing applications. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 115, 165-175	7.9	148
50	Photobiomodulation at 660nm stimulates proliferation and migration of diabetic wounded cells via the expression of epidermal growth factor and the JAK/STAT pathway. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2018</b> , 179, 74-83	6.7	27
49	A review on nanoparticle based treatment for wound healing. <i>Journal of Drug Delivery Science and Technology</i> , <b>2018</b> , 44, 421-430	4.5	144
48	Characterization of a multiple particle delivery complex and determination of cellular photodamage in skin fibroblast and breast cancer cell lines. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700077 <sup>1</sup>	7.1	4
47	Photobiomodulation alters matrix protein activity in stressed fibroblast cells in vitro. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700127	3.1	11
46	Cell Adhesion Molecules are Mediated by Photobiomodulation at 660 nm in Diabetic Wounded Fibroblast Cells. <i>Cells</i> , <b>2018</b> , 7,	7.9	13
45	Therapeutic Potential and Recent Advances of Curcumin in the Treatment of Aging-Associated Diseases. <i>Molecules</i> , <b>2018</b> , 23,	4.8	51
44	Cellular imaging and folate receptor targeting delivery of gum kondagogu capped gold nanoparticles in cancer cells. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 109, 220-230	7.9	35
43	Cellular imaging and bactericidal mechanism of green-synthesized silver nanoparticles against human pathogenic bacteria. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2018</b> , 178, 259-269	6.7	30
42	Therapeutic Efficacy of Home-Use Photobiomodulation Devices: A Systematic Literature Review. <i>Photomedicine and Laser Surgery</i> , <b>2018</b> ,		4

41	Evaluation of cell damage induced by irradiated Zinc-Phthalocyanine-gold dendrimeric nanoparticles in a breast cancer cell line. <i>Biomedical Journal</i> , <b>2018</b> , 41, 254-264	7.1	7
40	Role of photobiomodulation on the activation of the Smad pathway via TGF- $\beta$ 1n wound healing. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2018</b> , 189, 138-144	6.7	27
39	The JAK/STAT signaling pathway and photobiomodulation in chronic wound healing. <i>Cytokine and Growth Factor Reviews</i> , <b>2017</b> , 38, 73-79	17.9	24
38	The prevalence of osteoarthritic symptoms of the hands amongst female massage therapists. <i>Health SA Gesondheid</i> , <b>2017</b> , 22, 184-193	0.6	2
37	The Potential Role of Photobiomodulation and Polysaccharide-Based Biomaterials in Wound Healing Applications <b>2017</b> , 211-223		
36	Modes of Cell Death Induced by Photodynamic Therapy Using Zinc Phthalocyanine in Lung Cancer Cells Grown as a Monolayer and Three-Dimensional Multicellular Spheroids. <i>Molecules</i> , <b>2017</b> , 22,	4.8	10
35	The role of photobiomodulation on gene expression of cell adhesion molecules in diabetic wounded fibroblasts in vitro. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2016</b> , 161, 368-74	6.7	202
34	Recent Trends of Biocompatible and Biodegradable Nanoparticles in Drug Delivery: A Review. <i>Current Medicinal Chemistry</i> , <b>2016</b> , 23, 3730-3751	4.3	27
33	The Role of Matrix Metalloproteinases in Diabetic Wound Healing in relation to Photobiomodulation. <i>Journal of Diabetes Research</i> , <b>2016</b> , 2016, 2897656	3.9	87
32	Chapter 7 Mitochondrial Light Absorption and Its Effect on ATP Production <b>2016</b> , 101-118		
31	Resistance of lung cancer cells grown as multicellular tumour spheroids to zinc sulfophthalocyanine photosensitization. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 10185-200	6.3	17
30	Photodynamic effects of gold nanoparticles in a breast cancer cell line (MCF-7)in vitro <b>2015</b> ,		2
29	Conventional podiatric intervention and phototherapy in the treatment of diabetic ulcers. <i>Seminars in Vascular Surgery</i> , <b>2015</b> , 28, 172-83	1.2	7
28	Expression of genes in normal fibroblast cells (WS1) in response to irradiation at 660nm. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2014</b> , 130, 146-52	6.7	40
27	Induced cell death pathway post photodynamic therapy using a metallophthalocyanine photosensitizer in breast cancer cells. <i>Photomedicine and Laser Surgery</i> , <b>2014</b> , 32, 205-11		17
26	Shedding light on a new treatment for diabetic wound healing: a review on phototherapy. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 398412	2.2	55
25	Multiorganelle Localization of Metallated Phthalocyanine Photosensitizer in Colorectal Cancer Cells (DLD-1 and CaCo-2) Enhances Efficacy of Photodynamic Therapy. <i>International Journal of Photoenergy</i> , <b>2014</b> , 2014, 1-10	2.1	20
24	Laser Irradiation Alters the Expression Profile of Genes Involved in the Extracellular MatrixIn Vitro. <i>International Journal of Photoenergy</i> , <b>2014</b> , 2014, 1-17	2.1	15

23	Low-intensity laser irradiation at 660 nm stimulates transcription of genes involved in the electron transport chain. <i>Photomedicine and Laser Surgery</i> , <b>2013</b> , 31, 47-53		45
22	Phototoxic effect of photodynamic therapy on lung cancer cells grown as a monolayer and three dimensional multicellular spheroids. <i>Lasers in Surgery and Medicine</i> , <b>2013</b> , 45, 186-94	3.6	19
21	The primary subcellular localization of Zinc phthalocyanine and its cellular impact on viability, proliferation and structure of breast cancer cells (MCF-7). <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2013</b> , 120, 171-6	6.7	25
20	The use of phototherapy in the treatment of diabetic ulcers. <i>Journal of Endocrinology Metabolism and Diabetes of South Africa</i> , <b>2012</b> , 17, 128-132	0.5	3
19	Localization and phototoxic effect of zinc sulfophthalocyanine photosensitizer in human colon (DLD-1) and lung (A549) carcinoma cells (in vitro). <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2012</b> , 9, 52-9	3.5	23
18	Collagen production in diabetic wounded fibroblasts in response to low-intensity laser irradiation at 660 nm. <i>Diabetes Technology and Therapeutics</i> , <b>2012</b> , 14, 1110-7	8.1	52
17	Low-intensity laser irradiation at 660 nm stimulates cytochrome c oxidase in stressed fibroblast cells. <i>Lasers in Surgery and Medicine</i> , <b>2012</b> , 44, 429-34	3.6	39
16	Profiling of genes central to human mitochondrial energy metabolism following low intensity laser irradiation <b>2012</b> ,		2
15	Influence of low intensity laser irradiation on isolated human adipose derived stem cells over 72 hours and their differentiation potential into smooth muscle cells using retinoic acid. <i>Stem Cell Reviews and Reports</i> , <b>2011</b> , 7, 869-82	6.4	57
14	Irradiation at 636 nm positively affects diabetic wounded and hypoxic cells in vitro. <i>Photomedicine and Laser Surgery</i> , <b>2011</b> , 29, 521-30		33
13	Low-intensity laser irradiation stimulates wound healing in diabetic wounded fibroblast cells (WS1). <i>Diabetes Technology and Therapeutics</i> , <b>2010</b> , 12, 971-8	8.1	43
12	Irradiation at 830 nm stimulates nitric oxide production and inhibits pro-inflammatory cytokines in diabetic wounded fibroblast cells. <i>Lasers in Surgery and Medicine</i> , <b>2010</b> , 42, 494-502	3.6	58
11	Phototherapy promotes cell migration in the presence of hydroxyurea. <i>Lasers in Medical Science</i> , <b>2009</b> , 24, 144-50	3.1	6
10	Adipose derived stem cells and smooth muscle cells: implications for regenerative medicine. <i>Stem Cell Reviews and Reports</i> , <b>2009</b> , 5, 256-65	6.4	43
9	DNA damage after phototherapy in wounded fibroblast cells irradiated with 16 J/cm <sup>2</sup> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2009</b> , 94, 131-7	6.7	22
8	Laser light influences cellular viability and proliferation in diabetic-wounded fibroblast cells in a dose- and wavelength-dependent manner. <i>Lasers in Medical Science</i> , <b>2008</b> , 23, 11-8	3.1	60
7	He-Ne Laser Irradiation Stimulates Proliferation and Migration of Diabetic Wounded Fibroblast Cells. <i>Lecture Notes in Electrical Engineering</i> , <b>2008</b> , 221-232	0.2	
6	Effectiveness of helium-neon laser irradiation on viability and cytotoxicity of diabetic-wounded fibroblast cells. <i>Photomedicine and Laser Surgery</i> , <b>2007</b> , 25, 474-81		19

5	Irradiation with a 632.8 nm helium-neon laser with 5 J/cm <sup>2</sup> stimulates proliferation and expression of interleukin-6 in diabetic wounded fibroblast cells. <i>Diabetes Technology and Therapeutics</i> , <b>2007</b> , 9, 451-9 <sup>8,1</sup>	31
4	Cellular Damage in Diabetic Wounded Fibroblast Cells following Phototherapy at 632.8, 830, and 1064 nm. <i>Laser Chemistry</i> , <b>2007</b> , 2007, 1-9	6
3	In vitro exposure of wounded diabetic fibroblast cells to a helium-neon laser at 5 and 16 J/cm <sup>2</sup> . <i>Photomedicine and Laser Surgery</i> , <b>2007</b> , 25, 78-84	62
2	Effect of wavelength and fluence on morphology, cellular and genetic integrity of diabetic wounded human skin fibroblasts <b>2006</b> , 6140, 41	4
1	Low level laser therapy (LLLT) as an effective therapeutic modality for delayed wound healing. <i>Annals of the New York Academy of Sciences</i> , <b>2005</b> , 1056, 486-93	6.5 142