

Chukuka S Enwemeka

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76
papers

4,266
citations

33
h-index

65
g-index

88
ext. papers

4,664
ext. citations

3.3
avg, IF

5.66
L-index

#	Paper	IF	Citations
76	A simplified method for the analysis of hydroxyproline in biological tissues. <i>Clinical Biochemistry</i> , 1996 , 29, 225-9	3.5	972
75	The efficacy of low-power lasers in tissue repair and pain control: a meta-analysis study. <i>Photomedicine and Laser Surgery</i> , 2004 , 22, 323-9		256
74	The efficacy of laser therapy in wound repair: a meta-analysis of the literature. <i>Photomedicine and Laser Surgery</i> , 2004 , 22, 241-7		237
73	Laser photostimulation of collagen production in healing rabbit Achilles tendons. <i>Lasers in Surgery and Medicine</i> , 1998 , 22, 281-7	3.6	174
72	Blue 470-nm light kills methicillin-resistant Staphylococcus aureus (MRSA) in vitro. <i>Photomedicine and Laser Surgery</i> , 2009 , 27, 221-6		135
71	Laser photostimulation accelerates wound healing in diabetic rats. <i>Wound Repair and Regeneration</i> , 2001 , 9, 248-55	3.6	135
70	Visible 405 nm SLD light photo-destroys methicillin-resistant Staphylococcus aureus (MRSA) in vitro. <i>Lasers in Surgery and Medicine</i> , 2008 , 40, 734-7	3.6	118
69	The biomechanical effects of low-intensity ultrasound on healing tendons. <i>Ultrasound in Medicine and Biology</i> , 1990 , 16, 801-7	3.5	115
68	Phototherapy promotes healing of chronic diabetic leg ulcers that failed to respond to other therapies. <i>Lasers in Surgery and Medicine</i> , 2009 , 41, 433-41	3.6	110
67	Intricacies of dose in laser phototherapy for tissue repair and pain relief. <i>Photomedicine and Laser Surgery</i> , 2009 , 27, 387-93		107
66	Soft tissue thermodynamics before, during, and after cold pack therapy. <i>Medicine and Science in Sports and Exercise</i> , 2002 , 34, 45-50	1.2	107
65	The effects of therapeutic ultrasound on tendon healing. A biomechanical study. <i>American Journal of Physical Medicine and Rehabilitation</i> , 1989 , 68, 283-7	2.6	107
64	Inflammation, cellularity, and fibrillogenesis in regenerating tendon: implications for tendon rehabilitation. <i>Physical Therapy</i> , 1989 , 69, 816-25	3.3	105
63	The biomechanical integrity of bone in experimental diabetes. <i>Diabetes Research and Clinical Practice</i> , 2001 , 54, 1-8	7.4	93
62	Glycation-induced matrix stability in the rabbit achilles tendon. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 399, 174-80	4.1	79
61	Phototherapy improves healing of chronic venous ulcers. <i>Photomedicine and Laser Surgery</i> , 2009 , 27, 111-8		77
60	A meta-analysis of the efficacy of laser phototherapy on pain relief. <i>Clinical Journal of Pain</i> , 2010 , 26, 729-36	3.5	60

59	ATTENUATION AND PENETRATION OF VISIBLE 632.8nm AND INVISIBLE INFRA-RED 904nm LIGHT IN SOFT TISSUES. <i>Laser Therapy</i> , 2000 , 13, 95-101	0.8	59
58	Matrix remodeling in healing rabbit Achilles tendon. <i>Wound Repair and Regeneration</i> , 1999 , 7, 518-27	3.6	58
57	Wavelength and bacterial density influence the bactericidal effect of blue light on methicillin-resistant Staphylococcus aureus (MRSA). <i>Photomedicine and Laser Surgery</i> , 2013 , 31, 547-53		55
56	Functional loading augments the initial tensile strength and energy absorption capacity of regenerating rabbit Achilles tendons. <i>American Journal of Physical Medicine and Rehabilitation</i> , 1992 , 71, 31-8	2.6	52
55	Laser vascular tissue fusion: development, current status, and future perspectives. <i>Photomedicine and Laser Surgery</i> , 1990 , 8, 47-54		49
54	Combined ultrasound, electrical stimulation, and laser promote collagen synthesis with moderate changes in tendon biomechanics. <i>American Journal of Physical Medicine and Rehabilitation</i> , 1997 , 76, 288-296	3.6	49
53	Ultrastructural morphometry of membrane-bound intracytoplasmic collagen fibrils in tendon fibroblasts exposed to He:Ne laser beam. <i>Tissue and Cell</i> , 1992 , 24, 511-23	2.7	41
52	Optimization of the antimicrobial effect of blue light on methicillin-resistant Staphylococcus aureus (MRSA) in vitro. <i>Lasers in Surgery and Medicine</i> , 2015 , 47, 266-72	3.6	40
51	BIOMECHANICAL EFFECTS OF THREE DIFFERENT PERIODS OF GaAs LASER PHOTOSTIMULATION ON TENOTOMIZED TENDONS. <i>Laser Therapy</i> , 1994 , 6, 181-188	0.8	38
50	Laser biostimulation of healing wounds: specific effects and mechanisms of action. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 1988 , 9, 333-8	4.2	38
49	Light as a potential treatment for pandemic coronavirus infections: A perspective. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 207, 111891	6.7	37
48	A meta-analysis of the efficacy of phototherapy in tissue repair. <i>Photomedicine and Laser Surgery</i> , 2009 , 27, 695-702		37
47	Blue/violet laser inactivates methicillin-resistant Staphylococcus aureus by altering its transmembrane potential. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 170, 118-124	6.7	35
46	The relative antimicrobial effect of blue 405 nm LED and blue 405 nm laser on methicillin-resistant Staphylococcus aureus in vitro. <i>Lasers in Medical Science</i> , 2015 , 30, 2265-71	3.1	35
45	Spectrally resolved infrared microscopy and chemometric tools to reveal the interaction between blue light (470nm) and methicillin-resistant Staphylococcus aureus. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 167, 150-157	6.7	34
44	The bactericidal effect of 470-nm light and hyperbaric oxygen on methicillin-resistant Staphylococcus aureus (MRSA). <i>Lasers in Medical Science</i> , 2015 , 30, 1153-9	3.1	30
43	Blue 470 nm light suppresses the growth of Salmonella enterica and methicillin-resistant Staphylococcus aureus (MRSA) in vitro. <i>Lasers in Surgery and Medicine</i> , 2015 , 47, 595-601	3.6	30
42	THE BIOLOGICAL EFFECTS OF LASER THERAPY AND OTHER PHYSICAL MODALITIES ON CONNECTIVE TISSUE REPAIR PROCESSES. <i>Laser Therapy</i> , 2000 , 12, 22-30	0.8	28

41	Ultrastructural morphometry of matrical changes induced by exercise and food restriction in the rat calcaneal tendon. <i>Tissue and Cell</i> , 1992 , 24, 499-510	2.7	28
40	Membrane-bound intracellular collagen fibrils in fibroblasts and myofibroblasts of regenerating rabbit calcaneal tendons. <i>Tissue and Cell</i> , 1991 , 23, 173-90	2.7	27
39	Blue light does not impair wound healing in vitro. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 160, 53-60	6.7	27
38	Connective tissue plasticity: ultrastructural, biomechanical, and morphometric effects of physical factors on intact and regenerating tendons. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 1991 , 14, 198-212	4.2	26
37	The variation of heating depth with therapeutic ultrasound frequency in physiotherapy. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 113-8	3.5	24
36	A comparison of four methods for determining viability in human dermal fibroblasts irradiated with blue light. <i>Journal of Pharmacological and Toxicological Methods</i> , 2016 , 79, 15-22	1.7	20
35	Postural Correction in Persons with Neck Pain (II. Integrated Electromyography of the Upper Trapezius in Three Simulated Neck Positions). <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 1986 , 8, 240-2	4.2	20
34	Understanding the antimicrobial activity of selected disinfectants against methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). <i>PLoS ONE</i> , 2017 , 12, e0186375	3.7	19
33	Biochemistry and biomechanics of healing tendon: Part I. Effects of rigid plaster casts and functional casts. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 788-93	1.2	19
32	Biochemistry and biomechanics of healing tendon: Part II. Effects of combined laser therapy and electrical stimulation. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 794-800	1.2	19
31	Phototherapy (LEDs 660/890nm) in the treatment of leg ulcers in diabetic patients: case study. <i>Anais Brasileiros De Dermatologia</i> , 2009 , 84, 279-83	1.6	16
30	Postural correction in persons with neck pain (I. A survey of neck positions recommended by physical therapists). <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 1986 , 8, 235-9	4.2	16
29	Pulsed 450 nm blue light suppresses MRSA and <i>Propionibacterium acnes</i> in planktonic cultures and bacterial biofilms. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 202, 111702	6.7	14
28	Phototherapy promotes healing of cutaneous wounds in undernourished rats. <i>Anais Brasileiros De Dermatologia</i> , 2014 , 89, 899-904	1.6	13
27	Effects of exercise and food restriction on rat skeletal muscles. <i>Tissue and Cell</i> , 1992 , 24, 491-8	2.7	13
26	Pulsed 450nm blue light significantly inactivates <i>Propionibacterium acnes</i> more than continuous wave blue light. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 202, 111719	6.7	13
25	Optimizing the bactericidal effect of pulsed blue light on <i>Propionibacterium acnes</i> - A correlative fluorescence spectroscopy study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 202, 111701	6.7	11
24	Biochemistry and biomechanics of healing tendon. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 788-793	1.2	10

23	Biochemistry and biomechanics of healing tendon. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 794-800	1.2	7
22	The importance of porphyrins in blue light suppression of <i>Streptococcus agalactiae</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 212, 111996	6.7	7
21	Optimal Laser Phototherapy Parameters for Pain Relief. <i>Photomedicine and Laser Surgery</i> , 2018 , 36, 354-362		6
20	Pulsed blue light inactivates two strains of human coronavirus. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021 , 222, 112282	6.7	6
19	Whole-Genome Sequence for Methicillin-Resistant <i>Staphylococcus aureus</i> Strain ATCC BAA-1680. <i>Genome Announcements</i> , 2015 , 3,		5
18	Structural membrane changes induced by pulsed blue light on methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021 , 216, 112150	6.7	5
17	The viability of human cells irradiated with 470-nm light at various radiant energies in vitro. <i>Lasers in Medical Science</i> , 2021 , 36, 1661-1670	3.1	5
16	Physical deformities in Nigerian schools. <i>International Journal of Rehabilitation Research</i> , 1984 , 7, 163-172.8		4
15	Low level laser therapy is not low. <i>Photomedicine and Laser Surgery</i> , 2006 , 24, 532; author reply 532-3		3
14	Some family problems associated with the presence of a child with handicap in Nigeria. <i>Child: Care, Health and Development</i> , 1982 , 8, 133-40	2.8	3
13	The antimicrobial effect of 400nm femtosecond laser and silver nanoparticles on gram-positive and gram-negative bacteria. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021 , 223, 112300	6.7	3
12	The role of UV and blue light in photo-eradication of microorganisms. <i>Journal of Photochemistry and Photobiology</i> , 2021 , 8, 100064	0.8	3
11	Therapeutic light. <i>Rehab Management</i> , 2004 , 17, 20-5, 56-7		3
10	An inexpensive, automated instrument for laser irradiation of cultured cells. <i>Photomedicine and Laser Surgery</i> , 2004 , 22, 233-9		2
9	Blue light absorbing pigment in <i>Streptococcus agalactiae</i> does not potentiate the antimicrobial effect of pulsed 450nm light. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021 , 216, 112149	6.7	2
8	Laser photostimulation of collagen production in healing rabbit achilles tendons 1998 , 22, 281		2
7	Development of pulsed blue light technologies for bacterial biofilm disruption 2019 ,		1
6	Optimizing the antimicrobial efficacy of pulsed 450-nm light on <i>Propionibacterium acnes</i> through correlation with fluorescence spectroscopy 2019 ,		1

- 5 Blue Light Photo-Destroys Methicillin Resistant Staphylococcus aureus (MRSA) In-Vitro. *Lecture Notes in Electrical Engineering*, **2008**, 33-37 0.2 1
- 4 Pulsed blue light, saliva and curcumin significantly inactivate human coronavirus.. *Journal of Photochemistry and Photobiology B: Biology*, **2021**, 227, 112378 6.7 0
- 3 Biostimulatie van helende wonden met laser: specifieke effecten en werkingsmechanismen. *Stimulus*, **1990**, 9, 13-17
- 2 Combined 660 and 880 nm Light Improves Healing of Recalcitrant Diabetic Ulcers. *Lecture Notes in Electrical Engineering*, **2008**, 23-32 0.2
- 1 EDITORIAL, 10.3. *Laser Therapy*, **1998**, 10, 101-102 0.8