

Chukuka S Enwemeka

List of Publications by Year in descending order

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88
papers

5,150
citations

117453

34
h-index

91712

69
g-index

88
all docs

88
docs citations

88
times ranked

4773
citing authors

#	ARTICLE	IF	CITATIONS
1	A simplified method for the analysis of hydroxyproline in biological tissues. <i>Clinical Biochemistry</i> , 1996, 29, 225-229.	0.8	1,096
2	The Efficacy of Low-Power Lasers in Tissue Repair and Pain Control: A Meta-Analysis Study. <i>Photomedicine and Laser Surgery</i> , 2004, 22, 323-329.	2.1	321
3	The Efficacy of Laser Therapy in Wound Repair: A Meta-Analysis of the Literature. <i>Photomedicine and Laser Surgery</i> , 2004, 22, 241-247.	2.1	290
4	Laser photostimulation of collagen production in healing rabbit achilles tendons. , 1998, 22, 281-287.		204
5	Blue 470-nm Light Kills Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) <i>in Vitro</i> . <i>Photomedicine and Laser Surgery</i> , 2009, 27, 221-226.	2.1	164
6	Laser photostimulation accelerates wound healing in diabetic rats. <i>Wound Repair and Regeneration</i> , 2001, 9, 248-255.	1.5	162
7	Visible 405 nm SLD light photoâ€destroys methicillinâ€resistant <i>Staphylococcus aureus</i> (MRSA) <i>in vitro</i> . <i>Lasers in Surgery and Medicine</i> , 2008, 40, 734-737.	1.1	142
8	The biomechanical effects of low-intensity ultrasound on healing tendons. <i>Ultrasound in Medicine and Biology</i> , 1990, 16, 801-807.	0.7	135
9	Soft tissue thermodynamics before, during, and after cold pack therapy. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 45-50.	0.2	134
10	Phototherapy promotes healing of chronic diabetic leg ulcers that failed to respond to other therapies. <i>Lasers in Surgery and Medicine</i> , 2009, 41, 433-441.	1.1	134
11	The Effects of Therapeutic Ultrasound on Tendon Healing. <i>American Journal of Physical Medicine and Rehabilitation</i> , 1989, 68, 283-287.	0.7	130
12	Inflammation, Cellularity, and Fibrillogenesis in Regenerating Tendon: Implications for Tendon Rehabilitation. <i>Physical Therapy</i> , 1989, 69, 816-825.	1.1	123
13	Intricacies of Dose in Laser Phototherapy for Tissue Repair and Pain Relief. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 387-393.	2.1	118
14	The biomechanical integrity of bone in experimental diabetes. <i>Diabetes Research and Clinical Practice</i> , 2001, 54, 1-8.	1.1	108
15	Glycation-Induced Matrix Stability in the Rabbit Achilles Tendon. <i>Archives of Biochemistry and Biophysics</i> , 2002, 399, 174-180.	1.4	93
16	Phototherapy Improves Healing of Chronic Venous Ulcers. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 111-118.	2.1	92
17	A Meta-analysis of the Efficacy of Laser Phototherapy on Pain Relief. <i>Clinical Journal of Pain</i> , 2010, 26, 729-736.	0.8	77
18	Matrix remodeling in healing rabbit Achilles tendon. <i>Wound Repair and Regeneration</i> , 1999, 7, 518-527.	1.5	68

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19	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	65
20	Light as a potential treatment for pandemic coronavirus infections: A perspective. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 207, 111891.	1.7	64
21	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, 31-38.	0.7	63
22	Wavelength and Bacterial Density Influence the Bactericidal Effect of Blue Light on Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA). <i>Photomedicine and Laser Surgery</i> , 2013, 31, 547-553.	2.1	61
23	COMBINED ULTRASOUND, ELECTRICAL STIMULATION, AND LASER PROMOTE COLLAGEN SYNTHESIS WITH MODERATE CHANGES IN TENDON BIOMECHANICS ¹ . <i>American Journal of Physical Medicine and Rehabilitation</i> , 1997, 76, 288-296.	0.7	56
24	Blue/violet laser inactivates methicillin-resistant <i>Staphylococcus aureus</i> by altering its transmembrane potential. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 170, 118-124.	1.7	55
25	Morphometrics of Collagen Fibril Populations in He:Ne Laser Photostimulated Tendons. <i>Photomedicine and Laser Surgery</i> , 1990, 8, 47-52.	1.1	54
26	Antimicrobial Blue Light: An Emerging Alternative to Antibiotics. <i>Photomedicine and Laser Surgery</i> , 2013, 31, 509-511.	2.1	49
27	Optimization of the antimicrobial effect of blue light on methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) <i>in vitro</i> . <i>Lasers in Surgery and Medicine</i> , 2015, 47, 266-272.	1.1	49
28	Laser Biostimulation of Healing Wounds: Specific Effects and Mechanisms of Action. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 1988, 9, 333-338.	1.7	48
29	A Meta-analysis of the Efficacy of Phototherapy in Tissue Repair. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 695-702.	2.1	46
30	Ultrastructural morphometry of membrane-bound intracytoplasmic collagen fibrils in tendon fibroblasts exposed to He : Ne laser beam. <i>Tissue and Cell</i> , 1992, 24, 511-523.	1.0	45
31	The relative antimicrobial effect of blue 405Ånm LED and blue 405Ånm laser on methicillin-resistant <i>Staphylococcus aureus</i> <i>in vitro</i> . <i>Lasers in Medical Science</i> , 2015, 30, 2265-2271.	1.0	43
32	Blue light does not impair wound healing <i>in vitro</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 160, 53-60.	1.7	40
33	Spectrally resolved infrared microscopy and chemometric tools to reveal the interaction between blue light (470nm) and methicillin-resistant <i>Staphylococcus aureus</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 167, 150-157.	1.7	39
34	BIOMECHANICAL EFFECTS OF THREE DIFFERENT PERIODS OF GaAs LASER PHOTOSTIMULATION ON TENOTOMIZED TENDONS. <i>Laser Therapy</i> , 1994, 6, 181-188.	0.8	38
35	Light is Light. <i>Photomedicine and Laser Surgery</i> , 2005, 23, 159-160.	2.1	36
36	Blue 470Ånm light suppresses the growth of <i>Salmonella enterica</i> and methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) <i>in vitro</i> . <i>Lasers in Surgery and Medicine</i> , 2015, 47, 595-601.	1.1	34

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37	The bactericidal effect of 470-nm light and hyperbaric oxygen on methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). <i>Lasers in Medical Science</i> , 2015, 30, 1153-1159.	1.0	33
38	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	32
39	Membrane-bound intracellular collagen fibrils in fibroblasts and myofibroblasts of regenerating rabbit calcaneal tendons. <i>Tissue and Cell</i> , 1991, 23, 173-190.	1.0	29
40	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.	1.7	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.	1.0	28
42	The variation of heating depth with therapeutic ultrasound frequency in physiotherapy. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 113-118.	0.7	28
43	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.	0.3	27
44	Pulsed 450nm 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.	1.7	27
45	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.	0.2	27
46	The Place of Coherence in Light Induced Tissue Repair and Pain Modulation. <i>Photomedicine and Laser Surgery</i> , 2006, 24, 457-457.	2.1	26
47	Editorial: Standard Parameters in Laser Phototherapy. <i>Photomedicine and Laser Surgery</i> , 2008, 26, 411-411.	2.1	26
48	Understanding the antimicrobial activity of selected disinfectants against methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). <i>PLoS ONE</i> , 2017, 12, e0186375.	1.1	24
49	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, 240-242.	1.7	22
50	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, 788-793.	0.2	22
51	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.	1.7	21
52	Phototherapy promotes healing of cutaneous wounds in undernourished rats. <i>Anais Brasileiros De Dermatologia</i> , 2014, 89, 899-904.	0.5	20
53	Fototerapia (LEDs 660/890nm) no tratamento de úlceras de perna em pacientes diabéticos: estudo de caso. <i>Anais Brasileiros De Dermatologia</i> , 2009, 84, 279-283.	0.5	18
54	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.	1.7	18

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55	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, 235-239.	1.7	17
56	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.	1.7	17
57	Optimal Laser Phototherapy Parameters for Pain Relief. <i>Photomedicine and Laser Surgery</i> , 2018, 36, 354-362.	2.1	16
58	Pulsed blue light inactivates two strains of human coronavirus. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 222, 112282.	1.7	16
59	Effects of exercise and food restriction on rat skeletal muscles. <i>Tissue and Cell</i> , 1992, 24, 491-498.	1.0	14
60	Low Level Laser Therapy Is Not Low. <i>Photomedicine and Laser Surgery</i> , 2005, 23, 529-530.	2.1	14
61	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.	1.7	12
62	The antimicrobial effect of 400Ånm femtosecond laser and silver nanoparticles on gram-positive and gram-negative bacteria. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 223, 112300.	1.7	12
63	The role of UV and blue light in photo-eradication of microorganisms. <i>Journal of Photochemistry and Photobiology</i> , 2021, 8, 100064.	1.1	12
64	Biochemistry and biomechanics of healing tendon. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 788-793.	0.2	11
65	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.	1.0	9
66	Biochemistry and biomechanics of healing tendon. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 794-800.	0.2	9
67	Some family problems associated with the presence of a child with handicap in Nigeria. <i>Child: Care, Health and Development</i> , 1982, 8, 133-140.	0.8	6
68	Physical deformities in Nigerian schools. <i>International Journal of Rehabilitation Research</i> , 1984, 7, 163-172.	0.7	6
69	The Relevance of Accurate Comprehensive Treatment Parameters in Photobiomodulation. <i>Photomedicine and Laser Surgery</i> , 2011, 29, 783-784.	2.1	6
70	Whole-Genome Sequence for Methicillin-Resistant <i>Staphylococcus aureus</i> Strain ATCC BAA-1680. <i>Genome Announcements</i> , 2015, 3, .	0.8	5
71	Blue light absorbing pigment in <i>Streptococcus agalactiae</i> does not potentiate the antimicrobial effect of pulsed 450Ånm light. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 216, 112149.	1.7	5
72	Pulsed blue light, saliva and curcumin significantly inactivate human coronavirus. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 227, 112378.	1.7	5

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73	Blue Light Photo-Destroys Methicillin Resistant Staphylococcus aureus (MRSA) In-Vitro. Lecture Notes in Electrical Engineering, 2008, , 33-37.	0.3	4
74	Evidence-Based Photomedicine. Photomedicine and Laser Surgery, 2005, 23, 353-353.	2.1	3
75	Low Level Laser Therapy Is Not Low: Editor's Reply: Ineffective Dose and Lack of Laser Output Testing in Laser Shoulder and Neck Studies: Author's Reply. Photomedicine and Laser Surgery, 2006, 24, 532-534.	2.1	3
76	Therapeutic light. Rehab Management, 2004, 17, 20-5, 56-7.	0.0	3
77	An Inexpensive, Automated Instrument for Laser Irradiation of Cultured Cells. Photomedicine and Laser Surgery, 2004, 22, 233-239.	2.1	2
78	Therapeutic Blue Light: A Different Ray of Light on an Age-Old Problem. Photomedicine and Laser Surgery, 2006, 24, 679-679.	2.1	2
79	Antimicrobial Photodynamic Therapy as a Potential Treatment Against COVID-19: A Case for Blue Light. Photobiomodulation, Photomedicine, and Laser Surgery, 2020, 38, 577-578.	0.7	2
80	Laser photostimulation of collagen production in healing rabbit achilles tendons. , 1998, 22, 281.		2
81	Development of pulsed blue light technologies for bacterial biofilm disruption. , 2019, , .		2
82	Opportunities and Challenges. Photomedicine and Laser Surgery, 2004, 22, 169-169.	2.1	1
83	Optimizing the antimicrobial efficacy of pulsed 450-nm light on Propionibacterium acnes through correlation with fluorescence spectroscopy. , 2019, , .		1
84	Combined 660 and 880 nm Light Improves Healing of Recalcitrant Diabetic Ulcers. Lecture Notes in Electrical Engineering, 2008, , 23-32.	0.3	1
85	Biostimulatie van helende wonden met laser: specifieke effecten en werkingsmechanismen. Stimulus, 1990, 9, 13-17.	0.0	0
86	More Support for Student Research. Physical Therapy, 1992, 72, 608-609.	1.1	0
87	Blue Light Phototherapy Kills Methicillin Resistant Staphylococcus Aureus (MRSA). , 2010, , .		0
88	EDITORIAL, 10.3. Laser Therapy, 1998, 10, 101-102.	0.8	0