

# Walfre Franco

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

572  
citations

759233

12  
h-index

677142

22  
g-index

45  
all docs

45  
docs citations

45  
times ranked

699  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperthermic injury to adipocyte cells by selective heating of subcutaneous fat with a novel radiofrequency device: Feasibility studies. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 361-370.	2.1	113
2	Fractional Skin Harvesting. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2013, 1, e47.	0.6	48
3	Radial and temporal variations in surface heat transfer during cryogen spray cooling. <i>Physics in Medicine and Biology</i> , 2005, 50, 387-397.	3.0	38
4	Review of applications of fluorescence excitation spectroscopy to dermatology. <i>British Journal of Dermatology</i> , 2016, 174, 499-504.	1.5	34
5	Flow-induced Shear Stress Confers Resistance to Carboplatin in an Adherent Three-Dimensional Model for Ovarian Cancer: A Role for EGFR-Targeted Photoimmunotherapy Informed by Physical Stress. <i>Journal of Clinical Medicine</i> , 2020, 9, 924.	2.4	31
6	Sprayable peptide-modified silver nanoparticles as a barrier against bacterial colonization. <i>Nanoscale</i> , 2016, 8, 19200-19203.	5.6	30
7	Thermal and elastic response of subcutaneous tissue with different fibrous septa architectures to RF heating: Numerical study. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 183-195.	2.1	26
8	UV fluorescence excitation imaging of healing of wounds in skin: Evaluation of wound closure in organ culture model. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 678-685.	2.1	25
9	Effect of Fibrous Septa in Radiofrequency Heating of Cutaneous and Subcutaneous Tissues: Computational Study. <i>Lasers in Surgery and Medicine</i> , 2013, 45, 326-338.	2.1	21
10	Fluorescence excitation photography of epidermal cellular proliferation. <i>British Journal of Dermatology</i> , 2016, 174, 1086-1091.	1.5	20
11	Pulmonary Phototherapy for Treating Carbon Monoxide Poisoning. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 192, 1191-1199.	5.6	19
12	Multifunctional Nano and Collagen-Based Therapeutic Materials for Skin Repair. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1124-1134.	5.2	16
13	Phototherapy and extracorporeal membrane oxygenation facilitate removal of carbon monoxide in rats. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	12
14	DYNAMICS OF THERMAL-HYDRAULIC NETWORK CONTROL STRATEGIES. <i>Experimental Heat Transfer</i> , 2004, 17, 161-179.	3.2	11
15	Laser-assisted cryosurgery of prostate: numerical study. <i>Physics in Medicine and Biology</i> , 2007, 52, 463-478.	3.0	10
16	Mobile phone-based UV fluorescence microscopy for the identification of fungal pathogens. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 201-207.	2.1	10
17	Extent of lateral epidermal protection afforded by a cryogen spray against laser irradiation. <i>Lasers in Surgery and Medicine</i> , 2007, 39, 414-421.	2.1	9
18	BEATS-1: an open access 3D printed device for in vitro electromechanical stimulation of human induced pluripotent stem cells. <i>Scientific Reports</i> , 2020, 10, 11274.	3.3	9

#	ARTICLE	IF	CITATIONS
19	Selective and localized radiofrequency heating of skin and fat by controlling surface distributions of the applied voltage: analytical study. <i>Physics in Medicine and Biology</i> , 2012, 57, 7555-7578.	3.0	8
20	Fractional Skin Harvesting: Device Operational Principles and Deployment Evaluation. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, .	0.7	8
21	Changes in endogenous UV fluorescence and biomechanical stiffness of bovine articular cartilage after collagenase digestion are strongly correlated. <i>Journal of Biophotonics</i> , 2017, 10, 1018-1025.	2.3	8
22	Veno-venous extracorporeal blood phototherapy increases the rate of carbon monoxide (CO) elimination in CO-poisoned pigs. <i>Lasers in Surgery and Medicine</i> , 2022, 54, 256-267.	2.1	8
23	Nonlinear analysis of tilted toroidal thermosyphon models. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 1379-1391.	4.8	7
24	Evaluation of cell and matrix mechanics using fluorescence excitation spectroscopy: Feasibility study in collagen gels containing fibroblasts. <i>Lasers in Surgery and Medicine</i> , 2016, 48, 377-384.	2.1	7
25	Loss of Tryptophan Fluorescence Correlates With Mechanical Stiffness Following Photo-Crosslinking Treatment of Rabbit Cornea. , 2017, 58, 1110.		6
26	Point-of-care detection of neutrophils in live skin microsamples using chemiluminescence. <i>Journal of Biophotonics</i> , 2020, 13, e201960170.	2.3	5
27	Emerging biofabrication approaches for gastrointestinal organoids towards patient specific cancer models. <i>Cancer Letters</i> , 2021, 504, 116-124.	7.2	5
28	Intrinsic fluorescence and mechanical testing of articular cartilage in human patients with osteoarthritis. <i>Journal of Biophotonics</i> , 2018, 11, e201600269.	2.3	4
29	Apparatus for Harvesting Tissue Microcolumns. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
30	Hyperbaric phototherapy augments blood carbon monoxide removal. <i>Lasers in Surgery and Medicine</i> , 2022, 54, 426-432.	2.1	4
31	Smartphone imaging of subcutaneous veins. <i>Lasers in Surgery and Medicine</i> , 2018, 50, 1034-1039.	2.1	3
32	Development of a wide-field fluorescence imaging system for evaluation of wound re-epithelialization. , 2013, , .		2
33	Endogenous Fluorescence Dissimilarity Assessment of Four Potential Biomarkers of Early Liver Fibrosis by Preservation Media Effect. <i>Journal of Fluorescence</i> , 2020, 30, 249-257.	2.5	2
34	Noninvasive Assessment of Mycotic Nail Tissue Using an Ultraviolet Fluorescence Excitation Imaging System. <i>Lasers in Surgery and Medicine</i> , 2021, 53, 245-251.	2.1	2
35	Variations in the endogenous fluorescence of rabbit corneas after mechanical property alterations. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	2
36	Design and implementation of a dual-wavelength intrinsic fluorescence camera system. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
37	Fluorescence spectroscopy of collagen crosslinking: non-invasive and in situ evaluation of corneal stiffness. Proceedings of SPIE, 2015, , .	0.8	1
38	Fluorescence imaging of tryptophan and collagen cross-links to evaluate wound closure ex vivo. Proceedings of SPIE, 2016, , .	0.8	1
39	Preservation media analysis for ex vivo measurements of endogenous UV fluorescence of liver fibrosis in bulk samples. Proceedings of SPIE, 2017, , .	0.8	1
40	Statistical image segmentation for the detection of skin lesion borders in UV fluorescence excitation. Proceedings of SPIE, 2016, , .	0.8	0
41	<i>In vivo</i> assessment of wound re-epithelialization by UV fluorescence excitation imaging. Proceedings of SPIE, 2017, , .	0.8	0
42	Passive cooling of cutaneous and subcutaneous tissues using phase changing materials: feasibility study using a numerical model. International Journal of Hyperthermia, 2018, 34, 363-372.	2.5	0
43	Fluorescence spectroscopy for non-invasive measurement of mechanical stiffness after photo-crosslinking of rabbit cornea. Proceedings of SPIE, 2017, , .	0.8	0
44	Multifunctional patch for use during laser procedures: Optimization and feasibility testing. Lasers in Surgery and Medicine, 2021, , .	2.1	0