

# Renato Amaro ZÃçngaro

## List of Publications by Year in descending order

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107  
papers

2,813  
citations

159585

30  
h-index

189892

50  
g-index

113  
all docs

113  
docs citations

113  
times ranked

3076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of the low level laser therapy effects on cultured human gingival fibroblasts proliferation using different irradiance and same fluence*. Lasers in Surgery and Medicine, 2001, 29, 179-184.	2.1	323
2	Low-power laser in the prevention of induced oral mucositis in bone marrow transplantation patients: a randomized trial. Blood, 2007, 109, 2250-2255.	1.4	130
3	Effect of low-power GaAlAs laser (660 nm) on bone structure and cell activity: an experimental animal study. Lasers in Medical Science, 2003, 18, 89-94.	2.1	124
4	Effects of different protocol doses of low power gallium-aluminum-arsenate (Ga-Al-As) laser radiation (650 nm) on carrageenan induced rat paw oedema. Journal of Photochemistry and Photobiology B: Biology, 2004, 74, 101-107.	3.8	122
5	Correlation between near-infrared Raman spectroscopy and the histopathological analysis of atherosclerosis in human coronary arteries. Lasers in Surgery and Medicine, 2002, 30, 290-297.	2.1	115
6	Rapid multiexcitation fluorescence spectroscopy system for in vivo tissue diagnosis. Applied Optics, 1996, 35, 5211.	2.1	110
7	Rapid Identification of Bacterial Species by Fluorescence Spectroscopy and Classification Through Principal Components Analysis. Journal of Fluorescence, 2003, 13, 489-493.	2.5	89
8	Near-Infrared Raman Spectroscopy for Oral Carcinoma Diagnosis. Photomedicine and Laser Surgery, 2006, 24, 348-353.	2.0	80
9	Evaluation of Low-Level Laser Therapy of Osteoblastic Cells. Photomedicine and Laser Surgery, 2008, 26, 401-404.	2.0	80
10	Raman spectroscopy study of atherosclerosis in human carotid artery. Journal of Biomedical Optics, 2005, 10, 031117.	2.6	79
11	Discriminating model for diagnosis of basal cell carcinoma and melanoma <i>in vitro</i> based on the Raman spectra of selected biochemicals. Journal of Biomedical Optics, 2012, 17, 077003.	2.6	67
12	Discrimination of Basal Cell Carcinoma and Melanoma from Normal Skin Biopsies <i>in Vitro</i> Through Raman Spectroscopy and Principal Component Analysis. Photomedicine and Laser Surgery, 2012, 30, 381-387.	2.0	65
13	Effect of LLLT Ga-Al-As (685 nm) on LPS-induced inflammation of the airway and lung in the rat. Lasers in Medical Science, 2005, 20, 11-20.	2.1	62
14	Raman spectroscopy: A powerful technique for biochemical analysis and diagnosis. Spectroscopy, 2008, 22, 1-19.	0.8	62
15	Laser Light Prevents Apoptosis on Cho K-1 Cell Line. Photomedicine and Laser Surgery, 2003, 21, 193-196.	0.9	60
16	The effects of transcranial LED therapy (TCLT) on cerebral blood flow in the elderly women. Lasers in Medical Science, 2015, 30, 339-346.	2.1	59
17	Analysis of mitochondria, endoplasmic reticulum and actin filaments after PDT with ALPcS 4. Lasers in Medical Science, 2004, 18, 207-212.	2.1	50
18	Analysis of Near-infrared Raman Spectroscopy as a New Technique for a Transcutaneous Non-invasive Diagnosis of Blood Components. Lasers in Medical Science, 2001, 16, 2-9.	2.1	47

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19	Differentiating Normal and Basal Cell Carcinoma Human Skin Tissues <i>in Vitro</i> Using Dispersive Raman Spectroscopy: A Comparison Between Principal Components Analysis and Simplified Biochemical Models. <i>Photomedicine and Laser Surgery</i> , 2010, 28, S-119-S-127.	2.0	46
20	Identification of Different Forms of Cocaine and Substances Used in Adulteration Using Near-Infrared Raman Spectroscopy and Infrared Absorption Spectroscopy. <i>Journal of Forensic Sciences</i> , 2015, 60, 171-178.	1.6	44
21	Mitochondrial membrane potential after low-power laser irradiation. <i>Lasers in Medical Science</i> , 2004, 18, 204-206.	2.1	41
22	Effects of two exercise protocols on postural balance of elderly women: a randomized controlled trial. <i>BMC Geriatrics</i> , 2015, 15, 61.	2.7	40
23	Discrimination of non-melanoma skin lesions from non-tumor human skin tissues <i>in vivo</i> using Raman spectroscopy and multivariate statistics. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 6-16.	2.1	36
24	Transcranial LED therapy on amyloid- $\beta$ toxin 25-35 in the hippocampal region of rats. <i>Lasers in Medical Science</i> , 2017, 32, 749-756.	2.1	36
25	Mathematical model of COVID-19 intervention scenarios for São Paulo, Brazil. <i>Nature Communications</i> , 2021, 12, 418.	12.8	36
26	Comparison Between the Effect of Low-Level Laser Therapy and Low-Intensity Pulsed Ultrasonic Irradiation <i>in Vitro</i> . <i>Photomedicine and Laser Surgery</i> , 2008, 26, 6-9.	2.0	35
27	Discriminating Neoplastic and Normal Brain Tissues <i>in Vitro</i> Through Raman Spectroscopy: A Principal Components Analysis Classification Model. <i>Photomedicine and Laser Surgery</i> , 2013, 31, 595-604.	2.0	35
28	Quantifying glucose and lipid components in human serum by Raman spectroscopy and multivariate statistics. <i>Lasers in Medical Science</i> , 2017, 32, 787-795.	2.1	35
29	Development of Catheters With Low Fiber Background Signals for Raman Spectroscopic Diagnosis Applications. <i>Artificial Organs</i> , 2000, 24, 231-234.	1.9	34
30	Study of the effect of oral administration of L-arginine on muscular performance in healthy volunteers: An isokinetic study. <i>Isokinetics and Exercise Science</i> , 2002, 10, 153-158.	0.4	32
31	Near-Infrared Raman Spectroscopy of Human Coronary Arteries: Histopathological Classification Based on Mahalanobis Distance. <i>Photomedicine and Laser Surgery</i> , 2003, 21, 203-208.	0.9	32
32	Laser-Induced Fluorescence at 488nm Excitation for Detecting Benign and Malignant Lesions in Stomach Mucosa. <i>Journal of Fluorescence</i> , 2008, 18, 35-40.	2.5	31
33	Prevenção da xerostomia e da mucosite oral induzidas por radioterapia com uso do laser de baixa potência. <i>Radiologia Brasileira</i> , 2006, 39, 131-136.	0.7	30
34	Near Infrared Raman Spectroscopy (NIRS): A technique for doping control. <i>Spectroscopy</i> , 2006, 20, 185-194.	0.8	30
35	Photobiomodulation: Shining Light on COVID-19. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2020, 38, 395-397.	1.4	25
36	Laser Biomodulation on L 929 Cell Culture. <i>Photomedicine and Laser Surgery</i> , 2010, 28, 167-171.	2.0	23

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37	Use of photodynamic therapy in the treatment of bovine subclinical mastitis. Photodiagnosis and Photodynamic Therapy, 2018, 21, 246-251.	2.6	22
38	Discrimination of non-melanoma skin cancer and keratosis from normal skin tissue in vivo and ex vivo by Raman spectroscopy. Vibrational Spectroscopy, 2019, 100, 131-141.	2.2	22
39	Classification model based on Raman spectra of selected morphological and biochemical tissue constituents for identification of atherosclerosis in human coronary arteries. Lasers in Medical Science, 2011, 26, 645-655.	2.1	21
40	Photobiomodulation using low-level laser therapy (LLLT) for patients with chronic traumatic brain injury: a randomized controlled trial study protocol. Trials, 2018, 19, 17.	1.6	20
41	Using the laser-induced fluorescence spectroscopy in the differentiation between normal and neoplastichuman breast tissue. Lasers in Medical Science, 2003, 18, 171-176.	2.1	19
42	Side-viewing fiberoptic catheter for biospectroscopy applications. Lasers in Medical Science, 2004, 19, 15-20.	2.1	17
43	Use of Ozonated Water for Disinfecting Gastrointestinal Endoscopes. Ozone: Science and Engineering, 2016, 38, 346-351.	2.5	17
44	Dentin Evaluation after Nd:YAG Laser Irradiation Using Short and Long Pulses. Photomedicine and Laser Surgery, 2004, 22, 43-50.	0.9	16
45	Characterization of nutritional parameters in bovine milk by Raman spectroscopy with least squares modeling. Instrumentation Science and Technology, 2016, 44, 85-97.	1.8	16
46	Effects of the GaAlAs diode laser (780Ånm) on the periodontal tissues during orthodontic tooth movement in diabetes rats: histomorphological and immunohistochemical analysis. Lasers in Medical Science, 2017, 32, 1479-1487.	2.1	16
47	Transcranial Photobiomodulation Therapy in the Cognitive Rehabilitation of Patients with Cranioencephalic Trauma. Photobiomodulation, Photomedicine, and Laser Surgery, 2019, 37, 657-666.	1.4	15
48	Diagnosing COVID-19 in human serum using Raman spectroscopy. Lasers in Medical Science, 2022, 37, 2217-2226.	2.1	15
49	DISCRETE WAVELET TRANSFORM FOR DENOISING RAMAN SPECTRA OF HUMAN SKIN TISSUES USED IN A DISCRIMINANT DIAGNOSTIC ALGORITHM. Instrumentation Science and Technology, 2010, 38, 268-282.	1.8	14
50	Comparative Analysis of Ozone and Ultrasound Effect on the Elimination of Giardia spp. Cysts from Wastewater. Ozone: Science and Engineering, 2014, 36, 138-143.	2.5	14
51	Disinfection of Dental Instruments Contaminated with Streptococcus mutans Using Ozonated Water Alone or Combined with Ultrasound. Ozone: Science and Engineering, 2015, 37, 85-89.	2.5	14
52	Assessment of Cytoskeleton and Endoplasmic Reticulum of Fibroblast Cells Subjected to Low-Level Laser Therapy and Low-Intensity Pulsed Ultrasound. Photomedicine and Laser Surgery, 2009, 27, 461-466.	2.0	13
53	Near-infrared Raman spectroscopy to detect anti-Toxoplasma gondii antibody in blood sera of domestic cats: quantitative analysis based on partial least-squares multivariate statistics. Journal of Biomedical Optics, 2010, 15, 047002.	2.6	13
54	Discrimination of prostate carcinoma from benign prostate tissue fragments in vitro by estimating the gross biochemical alterations through Raman spectroscopy. Lasers in Medical Science, 2014, 29, 1469-1477.	2.1	13

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55	Diagnosing COVID-19 in human sera with detected immunoglobulins IgM and IgG by means of Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2671-2682.	2.5	13
56	Root apex sealing with different filling materials photopolymerized with fiber optic-delivered argon laser light. <i>Lasers in Medical Science</i> , 2004, 19, 95-99.	2.1	12
57	Optothermal transfer simulation in laser-irradiated human dentin. <i>Journal of Biomedical Optics</i> , 2003, 8, 298.	2.6	10
58	Effects of transcranial LED therapy on the cognitive rehabilitation for diffuse axonal injury due to severe acute traumatic brain injury: study protocol for a randomized controlled trial. <i>Trials</i> , 2018, 19, 249.	1.6	10
59	Pilates and Proprioceptive Neuromuscular Facilitation Methods Induce Similar Strength Gains but Different Neuromuscular Adaptations in Elderly Women. <i>Experimental Aging Research</i> , 2017, 43, 440-452.	1.2	9
60	Obesity and metabolic syndrome in children in Brazil. <i>Medicine (United States)</i> , 2019, 98, e15666.	1.0	9
61	Normal-subtracted preprocessing of Raman spectra aiming to discriminate skin actinic keratosis and neoplasias from benign lesions and normal skin tissues. <i>Lasers in Medical Science</i> , 2020, 35, 1141-1151.	2.1	8
62	Effect of Ozone as Acaricide: Action of the Ozone on the Cuticle and Respiratory Spiracle of <i>TickRhipicephalus sanguineus</i> sensu lato. <i>Ozone: Science and Engineering</i> , 2018, 40, 183-190.	2.5	7
63	Effects of the photobiomodulation using different energy densities on the periodontal tissues under orthodontic force in rats with type 2 diabetes mellitus. <i>Brazilian Oral Research</i> , 2018, 32, e61.	1.4	7
64	Use of near-infrared raman spectroscopy to detect IgG and IgM antibodies against <i>Toxoplasma gondii</i> in serum samples of domestic cats. <i>Cellular and Molecular Biology</i> , 2002, 48, 585-9.	0.9	7
65	LED phototherapy in full-thickness burns induced by CO2 laser in rats skin. <i>Lasers in Medical Science</i> , 2018, 33, 1537-1547.	2.1	6
66	Optical Fiber Device and Biological Tissue Phantoms for Determination of Optical Parameters in the Near-Infrared Region. <i>Instrumentation Science and Technology</i> , 2004, 32, 489-505.	1.8	5
67	Compartmentalized mathematical model to predict future number of active cases and deaths of COVID-19. <i>Research on Biomedical Engineering</i> , 2020, , 1.	2.2	5
68	Near Infrared Raman Spectroscopy System for Real Time Monitoring of Fast Processes: A Resin Composite Photopolymerization Application. <i>Instrumentation Science and Technology</i> , 2007, 35, 609-617.	1.8	4
69	Experimental full-thickness burns induced by CO2 laser. <i>Lasers in Medical Science</i> , 2014, 29, 1709-1714.	2.1	4
70	Could the bone mineral density (T-score) be correlated with the Raman spectral features of keratin from women's nails and be used to predict osteoporosis?. <i>Lasers in Medical Science</i> , 2015, 30, 287-294.	2.1	4
71	Multivariate Method Based on Raman Spectroscopy for Quantification of Dipyrone in Oral Solutions. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-10.	1.3	4
72	Application of principal components analysis to diagnosis hamster oral carcinogenesis: Raman study. , 2004, 5321, 111.		3

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73	Photodynamic Therapy (PDT) using intratumoral injection of the 5- aminolevulinic acid (5-ALA) for the treatment of eye cancer in cattle. , 2007, , .		3
74	Diagnosing basal cell carcinoma in vivo by near-infrared Raman spectroscopy: a Principal Components Analysis discrimination algorithm. , 2012, , .		3
75	Quantitative determination of the human breast milk macronutrients by near-infrared Raman spectroscopy. , 2012, , .		3
76	Analysis of Damage on the <i>Streptococcus mutans</i> Immersed in Ozonated Water: Preliminary Study for Application as Mouth Rinse. <i>Ozone: Science and Engineering</i> , 2019, 41, 242-249.	2.5	3
77	Effectiveness of ozonated water in the reprocessing of blood dialyzers. <i>Revista Brasileira De Engenharia Biomedica</i> , 2014, 30, 215-219.	0.3	3
78	Systemic Effects of Photobiomodulation on Blood Components in the Treatment of Community-Acquired Pneumonia. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2022, 40, 51-58.	1.4	3
79	Photodynamic diagnostic in atherosclerotic artery wall of rabbits. , 2001, 4244, 434.		2
80	Effect of low-power laser therapy on edema dynamics: sensing by using the electrical capacitance method. , 2004, 5319, 355.		2
81	Effect of Ozone on Engorged <i>Rhipicephalus microplus</i> (Acari: Ixodidae) Females During the Pre-Laying Period. <i>Ozone: Science and Engineering</i> , 2019, 41, 286-293.	2.5	2
82	Catheter with dielectric optical filter deposited upon the fiber optic end for Raman in vivo biospectroscopy applications. <i>Spectroscopy</i> , 2008, 22, 459-466.	0.8	2
83	Near-infrared Raman spectroscopy to detect anti- <i>Toxoplasma gondii</i> antibodies in blood sera of domestic cats. , 2001, , .		1
84	Study of normal, fibrous and calcified aortic valve tissue by Raman and reflectance spectroscopy. , 2007, 6424, 280.		1
85	Body sway and global equilibrium condition of the elderly in quiet standing posture by using competitive neural networks. <i>Applied Soft Computing Journal</i> , 2018, 69, 625-633.	7.2	1
86	Optical Coherence Tomography Imaging of Stenotic Aortic Valve Samples. , 2010, , .		1
87	Diagnosis of atherosclerosis in human carotid artery by FT-Raman spectroscopy: Principal Components Analysis algorithm. , 2004, , .		1
88	Dissolved ozone in biological fluid monitored by optical device operating in the red-infrared region. <i>Revista Brasileira De Engenharia Biomedica</i> , 2014, 30, 127-131.	0.3	1
89	<i>Rapid multiexcitation spectrofluorimeter for in-vivo tissue diagnosis</i> . , 1997, , .		0
90	Observation of visible photons during infrared irradiation of bovine liver in the nonablative regime. , 2000, , .		0

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91	<title>Fluorescence in iliac artery wall of rabbit induced by AIPc</title>. , 2000, , .		0
92	<title>Comparative study of Al- and Zn-phthalocyanine uptake in rabbit iliac artery by transadvantitial measurements of induced fluorescence</title>. , 2001, , .		0
93	Effect of pulsed Nd:YAG on dentin morphological changes. , 2002, , .		0
94	Mathematical simulation of the thermal diffusion in dentine irradiated with Nd:YAG laser using finite difference method. , 2002, 4610, 67.		0
95	Root apex sealing with different filling materials photopolymerized with argon ion laser light. , 2003, , .		0
96	Histological study of hamster buccal mucosa following topical application of DMBA and exposition to low-power 337-nm laser light. , 2003, , .		0
97	Quality improvement of photopolimerizable-cement root canal obturation. , 2003, , .		0
98	Optical characterization of a light guide for the polymerization of root canal fillers: preliminary results. , 2004, , .		0
99	Comparison between the fluorescence spectroscopy and the <sup>125</sup> I albumin-labeling technique for the study of skin edema dynamics. , 2004, 5326, 113.		0
100	Evaluation of the analgesic effect of low-power optical radiation in acute inflammatory process. , 2004, , .		0
101	Classification Model for Skin Cancer Diagnosis in Vitro Using Raman Spectroscopy. , 2010, , .		0
102	Discriminating model for skin cancer diagnosis in vivo through Raman spectroscopy. , 2013, , .		0
103	Could the differences in the biochemistry of prostate carcinoma compared to benign prostate tissue biopsy fragments be evaluated through Raman spectroscopy?. Proceedings of SPIE, 2013, , .	0.8	0
104	Mass Transfer Ozone-Blood by a Venturi. IFMBE Proceedings, 2019, , 837-840.	0.3	0
105	PDD applied in the dog transmissible venereal tumor. , 2003, , .		0
106	Mass transfer of ozone-bloodâ€™venturi use and influences on hematological parameters. Research on Biomedical Engineering, 0, , .	2.2	0
107	Effects of ozone therapy on hematological and serum biochemical parameters in dogs affected by visceral leishmaniasis. Research, Society and Development, 2022, 11, e16711729886.	0.1	0