

# 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	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
2	Diagnosing COVID-19 in human serum using Raman spectroscopy. <i>Lasers in Medical Science</i> , 2022, 37, 2217-2226.	2.1	15
3	Effects of ozone therapy on hematological and serum biochemical parameters in dogs affected by visceral leishmaniasis. <i>Research, Society and Development</i> , 2022, 11, e16711729886.	0.1	0
4	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
5	Mathematical model of COVID-19 intervention scenarios for SÃ£o Pauloâ€”Brazil. <i>Nature Communications</i> , 2021, 12, 418.	12.8	36
6	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
7	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
8	Photobiomodulation: Shining Light on COVID-19. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2020, 38, 395-397.	1.4	25
9	Obesity and metabolic syndrome in children in Brazil. <i>Medicine (United States)</i> , 2019, 98, e15666.	1.0	9
10	Transcranial Photobiomodulation Therapy in the Cognitive Rehabilitation of Patients with Cranioencephalic Trauma. <i>Photobiomodulation, Photomedicine, and Laser Surgery</i> , 2019, 37, 657-666.	1.4	15
11	Mass Transfer Ozone-Blood by a Venturi. <i>IFMBE Proceedings</i> , 2019, , 837-840.	0.3	0
12	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
13	Discrimination of non-melanoma skin cancer and keratosis from normal skin tissue in vivo and ex vivo by Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2019, 100, 131-141.	2.2	22
14	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
15	Photobiomodulation using low-level laser therapy (LLLT) for patients with chronic traumatic brain injury: a randomized controlled trial study protocol. <i>Trials</i> , 2018, 19, 17.	1.6	20
16	Use of photodynamic therapy in the treatment of bovine subclinical mastitis. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 21, 246-251.	2.6	22
17	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
18	Effect of Ozone as Acaricide: Action of the Ozone on the Cuticle and Respiratory Spiracle of Tick <i>Rhipicephalus sanguineus</i> sensu lato. <i>Ozone: Science and Engineering</i> , 2018, 40, 183-190.	2.5	7

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	Effects of the GaAlAs diode laser (780nm) on the periodontal tissues during orthodontic tooth movement in diabetes rats: histomorphological and immunohistochemical analysis. <i>Lasers in Medical Science</i> , 2017, 32, 1479-1487.	2.1	16
27	Use of Ozonated Water for Disinfecting Gastrointestinal Endoscopes. <i>Ozone: Science and Engineering</i> , 2016, 38, 346-351.	2.5	17
28	Characterization of nutritional parameters in bovine milk by Raman spectroscopy with least squares modeling. <i>Instrumentation Science and Technology</i> , 2016, 44, 85-97.	1.8	16
29	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
30	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
31	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
32	Disinfection of Dental Instruments Contaminated with <i>Streptococcus mutans</i> Using Ozonated Water Alone or Combined with Ultrasound. <i>Ozone: Science and Engineering</i> , 2015, 37, 85-89.	2.5	14
33	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
34	The effects of transcranial LED therapy (TCLT) on cerebral blood flow in the elderly women. <i>Lasers in Medical Science</i> , 2015, 30, 339-346.	2.1	59
35	Comparative Analysis of Ozone and Ultrasound Effect on the Elimination of <i>Giardia spp.</i> Cysts from Wastewater. <i>Ozone: Science and Engineering</i> , 2014, 36, 138-143.	2.5	14
36	Discrimination of prostate carcinoma from benign prostate tissue fragments <i>in vitro</i> by estimating the gross biochemical alterations through Raman spectroscopy. <i>Lasers in Medical Science</i> , 2014, 29, 1469-1477.	2.1	13

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37	Experimental full-thickness burns induced by CO2 laser. <i>Lasers in Medical Science</i> , 2014, 29, 1709-1714.	2.1	4
38	Effectiveness of ozonated water in the reprocessing of blood dialyzers. <i>Revista Brasileira De Engenharia Biomedica</i> , 2014, 30, 215-219.	0.3	3
39	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
40	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
41	Discriminating model for skin cancer diagnosis in vivo through Raman spectroscopy. , 2013, , .		0
42	Could the differences in the biochemistry of prostate carcinoma compared to benign prostate tissue biopsy fragments be evaluated through Raman spectroscopy?. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
43	Diagnosing basal cell carcinoma in vivo by near-infrared Raman spectroscopy: a Principal Components Analysis discrimination algorithm. , 2012, , .		3
44	Discrimination of Basal Cell Carcinoma and Melanoma from Normal Skin Biopsies <i>in Vitro</i> Through Raman Spectroscopy and Principal Component Analysis. <i>Photomedicine and Laser Surgery</i> , 2012, 30, 381-387.	2.0	65
45	Quantitative determination of the human breast milk macronutrients by near-infrared Raman spectroscopy. , 2012, , .		3
46	Discriminating model for diagnosis of basal cell carcinoma and melanoma<i>in vitro</i>based on the Raman spectra of selected biochemicals. <i>Journal of Biomedical Optics</i> , 2012, 17, 077003.	2.6	67
47	Classification model based on Raman spectra of selected morphological and biochemical tissue constituents for identification of atherosclerosis in human coronary arteries. <i>Lasers in Medical Science</i> , 2011, 26, 645-655.	2.1	21
48	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. <i>Journal of Biomedical Optics</i> , 2010, 15, 047002.	2.6	13
49	DISCRETE WAVELET TRANSFORM FOR DENOISING RAMAN SPECTRA OF HUMAN SKIN TISSUES USED IN A DISCRIMINANT DIAGNOSTIC ALGORITHM. <i>Instrumentation Science and Technology</i> , 2010, 38, 268-282.	1.8	14
50	Classification Model for Skin Cancer Diagnosis in Vitro Using Raman Spectroscopy. , 2010, , .		0
51	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
52	Laser Biomodulation on L 929 Cell Culture. <i>Photomedicine and Laser Surgery</i> , 2010, 28, 167-171.	2.0	23
53	Optical Coherence Tomography Imaging of Stenotic Aortic Valve Samples. , 2010, , .		1
54	Assessment of Cytoskeleton and Endoplasmic Reticulum of Fibroblast Cells Subjected to Low-Level Laser Therapy and Low-Intensity Pulsed Ultrasound. <i>Photomedicine and Laser Surgery</i> , 2009, 27, 461-466.	2.0	13

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55	Laser-Induced Fluorescence at 488Ånm Excitation for Detecting Benign and Malignant Lesions in Stomach Mucosa. <i>Journal of Fluorescence</i> , 2008, 18, 35-40.	2.5	31
56	Evaluation of Low-Level Laser Therapy of Osteoblastic Cells. <i>Photomedicine and Laser Surgery</i> , 2008, 26, 401-404.	2.0	80
57	Comparison Between the Effect of Low-Level Laser Therapy and Low-Intensity Pulsed Ultrasonic Irradiation in Vitro. <i>Photomedicine and Laser Surgery</i> , 2008, 26, 6-9.	2.0	35
58	Raman spectroscopy: A powerful technique for biochemical analysis and diagnosis. <i>Spectroscopy</i> , 2008, 22, 1-19.	0.8	62
59	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
60	Study of normal, fibrous and calcified aortic valve tissue by Raman and reflectance spectroscopy. , 2007, 6424, 280.		1
61	Low-power laser in the prevention of induced oral mucositis in bone marrow transplantation patients: a randomized trial. <i>Blood</i> , 2007, 109, 2250-2255.	1.4	130
62	Photodynamic Therapy (PDT) using intratumoral injection of the 5- aminolevulinic acid (5-ALA) for the treatment of eye cancer in cattle. , 2007, , .		3
63	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
64	Near-Infrared Raman Spectroscopy for Oral Carcinoma Diagnosis. <i>Photomedicine and Laser Surgery</i> , 2006, 24, 348-353.	2.0	80
65	PrevenÃ§Ã£o da xerostomia e da mucosite oral induzidas por radioterapia com uso do laser de baixa potÃancia. <i>Radiologia Brasileira</i> , 2006, 39, 131-136.	0.7	30
66	Near Infrared Raman Spectroscopy (NIRS): A technique for doping control. <i>Spectroscopy</i> , 2006, 20, 185-194.	0.8	30
67	Effect of LLLT GaÃAlÃAs (685Ånm) on LPS-induced inflammation of the airway and lung in the rat. <i>Lasers in Medical Science</i> , 2005, 20, 11-20.	2.1	62
68	Raman spectroscopy study of atherosclerosis in human carotid artery. <i>Journal of Biomedical Optics</i> , 2005, 10, 031117.	2.6	79
69	Dentin Evaluation after Nd:YAG Laser Irradiation Using Short and Long Pulses. <i>Photomedicine and Laser Surgery</i> , 2004, 22, 43-50.	0.9	16
70	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
71	Mitochondrial membrane potential after low-power laser irradiation. <i>Lasers in Medical Science</i> , 2004, 18, 204-206.	2.1	41
72	Analysis of mitochondria, endoplasmic reticulum and actin filaments after PDT with ALPcS 4. <i>Lasers in Medical Science</i> , 2004, 18, 207-212.	2.1	50

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73	Side-viewing fiberoptic catheter for biospectroscopy applications. Lasers in Medical Science, 2004, 19, 15-20.	2.1	17
74	Root apex sealing with different filling materials photopolymerized with fiber optic?delivered argon laser light. Lasers in Medical Science, 2004, 19, 95-99.	2.1	12
75	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
76	Effect of low-power laser therapy on edema dynamics: sensing by using the electrical capacitance method. , 2004, 5319, 355.		2
77	Application of principal components analysis to diagnosis hamster oral carcinogenesis: Raman study. , 2004, 5321, 111.		3
78	Optical characterization of a light guide for the polymerization of root canal fillers: preliminary results. , 2004, , .		0
79	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
80	Evaluation of the analgesic effect of low-power optical radiation in acute inflammatory process. , 2004, , .		0
81	Diagnosis of atherosclerosis in human carotid artery by FT-Raman spectroscopy: Principal Components Analysis algorithm. , 2004, , .		1
82	Rapid Identification of Bacterial Species by Fluorescence Spectroscopy and Classification Through Principal Components Analysis. Journal of Fluorescence, 2003, 13, 489-493.	2.5	89
83	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
84	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
85	Optothermal transfer simulation in laser-irradiated human dentin. Journal of Biomedical Optics, 2003, 8, 298.	2.6	10
86	Near-Infrared Raman Spectroscopy of Human Coronary Arteries: Histopathological Classification Based on Mahalanobis Distance. Photomedicine and Laser Surgery, 2003, 21, 203-208.	0.9	32
87	Laser Light Prevents Apoptosis on Cho K-1 Cell Line. Photomedicine and Laser Surgery, 2003, 21, 193-196.	0.9	60
88	Root apex sealing with different filling materials photopolymerized with argon ion laser light. , 2003, , .		0
89	Histological study of hamster buccal mucosa following topical application of DMBA and exposition to low-power 337-nm laser light. , 2003, , .		0
90	Quality improvement of photopolymerizable-cement root canal obturation. , 2003, , .		0

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91	PDD applied in the dog transmissible venereal tumor. , 2003, , .		0
92	Effect of pulsed Nd:YAG on dentin morphological changes. , 2002, , .		0
93	Mathematical simulation of the thermal diffusion in dentine irradiated with Nd:YAG laser using finite difference method. , 2002, 4610, 67.		0
94	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
95	Correlation between near-infrared Raman spectroscopy and the histopathological analysis of atherosclerosis in human coronary arteries. <i>Lasers in Surgery and Medicine</i> , 2002, 30, 290-297.	2.1	115
96	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
97	<title>Comparative study of Al- and Zn-phthalocyanine uptake in rabbit iliac artery by transadvantitial measurements of induced fluorescence</title>. , 2001, , .		0
98	Near-infrared Raman spectroscopy to detect anti- <i>Toxoplasma gondii</i> antibodies in blood sera of domestic cats. , 2001, , .		1
99	Photodynamic diagnostic in atherosclerotic artery wall of rabbits. , 2001, 4244, 434.		2
100	Comparison of the low level laser therapy effects on cultured human gingival fibroblasts proliferation using different irradiance and same fluence*. <i>Lasers in Surgery and Medicine</i> , 2001, 29, 179-184.	2.1	323
101	Analysis of Near-infrared Raman Spectroscopy as a New Technique for a Transcutaneous Non-invasive Diagnosis of Blood Components. <i>Lasers in Medical Science</i> , 2001, 16, 2-9.	2.1	47
102	Observation of visible photons during infrared irradiation of bovine liver in the nonablative regime. , 2000, , .		0
103	<title>Fluorescence in iliac artery wall of rabbit induced by AIPc</title>. , 2000, , .		0
104	Development of Catheters With Low Fiber Background Signals for Raman Spectroscopic Diagnosis Applications. <i>Artificial Organs</i> , 2000, 24, 231-234.	1.9	34
105	<title>Rapid multiexcitation spectrofluorimeter for in-vivo tissue diagnosis</title>. , 1997, , .		0
106	Rapid multiexcitation fluorescence spectroscopy system for in vivo tissue diagnosis. <i>Applied Optics</i> , 1996, 35, 5211.	2.1	110
107	Mass transfer of ozone-bloodâ€™venturi use and influences on hematological parameters. <i>Research on Biomedical Engineering</i> , 0, , .	2.2	0