Anderson Z Freitas

List of Publications by Year
in descending order

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89 papers	1,371 citations	331670 21 h-index	377865 34 g-index
89 all docs	89 docs citations	89 times ranked	1739 citing authors

#	Article	IF	Citations
1	Strong violetâ€“blue light photoluminescence emission at room temperature in SrZrO3: Joint experimental and theoretical study. Acta Materialia, 2008, 56, 2191-2202.	7.9	132
2	Hair fiber characteristics and methods to evaluate hair physical and mechanical properties. Brazilian Journal of Pharmaceutical Sciences, 2009, 45, 153-162.	1.2	116
3	Synergetic measurements of aerosols over SÃ£o Paulo, Brazil using LIDAR, sunphotometer and satellite data during the dry season. Atmospheric Chemistry and Physics, 2003, 3, 1523-1539.	4.9	79
4	Color center production by femtosecond pulse laser irradiation in LiF crystals. Optics Express, 2004, 12, 288.	3.4	64
5	QUANTIFICATION OF RETINAL CAPILLARY NONPERFUSION IN DIABETICS USING WIDE-FIELD OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. Retina, 2020, 40, 412-420.	1.7	62
6	Evaluation of enamel dental restoration interface by optical coherence tomography. Journal of Biomedical Optics, 2005, 10, 064027.	2.6	56
7	Marginal analysis of resin composite restorative systems using optical coherence tomography. Dental Materials, 2011, 27, e213-e223.	3.5	46
8	Imaging carious human dental tissue with optical coherence tomography. Journal of Applied Physics, 2006, 99, 024906.	2.5	45
9	Biofilm retention by 3 methods of ligation on orthodontic brackets: A microbiologic and optical coherence tomography analysis. American Journal of Orthodontics and Dentofacial Orthopedics, 2011, 140, e193-e198.	1.7	45
10	Determination of dental decay rates with optical coherence tomography. Laser Physics Letters, 2009, 6, 896-900.	1.4	41
11	Evaluation of Femtosecond Laser-Induced Breakdown Spectroscopy for Analysis of Animal Tissues. Applied Spectroscopy, 2008, 62, 1137-1143.	2.2	40
12	Alternative methods for determining shrinkage in restorative resin composites. Dental Materials, 2011, 27, e176-e185.	3.5	38
13	Evaluation of two quantitative analysis methods of optical coherence tomography for detection of enamel demineralization and comparison with microhardness. Lasers in Surgery and Medicine, 2014, 46, 666-671.	2.1	34
14	Controlling for Artifacts in Widefield Optical Coherence Tomography Angiography Measurements of Non-Perfusion Area. Scientific Reports, 2019, 9, 9096.	3.3	32
15	Volumetric polymerization shrinkage and its comparison to internal adaptation in bulk fill and conventional composites: A Î¼CT and OCT in vitro analysis. Dental Materials, 2019, 35, 1568-1575.	3.5	30
16	Determination of ablation threshold for composite resins and amalgam irradiated with femtosecond laser pulses. Laser Physics Letters, 2010, 7, 236-241.	1.4	29
17	Evaluation of dental enamel caries assessment using Quantitative Light Induced Fluorescence and Optical Coherence Tomography. Journal of Biophotonics, 2016, 9, 596-602.	2.3	27
18	Evaluation of caries-affected dentin with optical coherence tomography. Brazilian Oral Research, 2011, 25, 407-413.	1.4	26

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19	Antimicrobial Photodynamic Therapy as a Strategy to Arrest Enamel Demineralization: A Shortâ€Term Study on Incipient Caries in a Rat Model^{â€}. Photochemistry and Photobiology, 2012, 88, 584-589.	2.5	26
20	Variation on Molecular Structure, Crystallinity, and Optical Properties of Dentin Due to Nd:YAG Laser and Fluoride Aimed at Tooth Erosion Prevention. International Journal of Molecular Sciences, 2018, 19, 433.	4.1	26
21	Optical Coherence Tomography as an Auxiliary Tool for the Screening of Radiation-Related Caries. Photomedicine and Laser Surgery, 2013, 31, 301-306.	2.0	23
22	Optical coherence tomography for blood glucose monitoringin vitrothrough spatial and temporal approaches. Journal of Biomedical Optics, 2016, 21, 086007.	2.6	21
23	Tropospheric aerosol observations in SÃ£o Paulo, Brazil using a compact lidar system. International Journal of Remote Sensing, 2005, 26, 2797-2816.	2.9	20
24	Progression of erosive lesions after Nd:YAG laser and fluoride using optical coherence tomography. Lasers in Medical Science, 2017, 32, 1-8.	2.1	20
25	Characterization and Comparative Analysis of Voids in Class II Composite Resin Restorations by Optical Coherence Tomography. Operative Dentistry, 2020, 45, 71-79.	1.2	19
26	Disorder-dependent photoluminescence in Ba0.8Ca0.2TiO3 at room temperature. Journal of Luminescence, 2009, 129, 686-690.	3.1	17
27	Roughness measurement methodology according to DIN 4768 using optical coherence tomography (OCT). Proceedings of SPIE, 2009, , .	0.8	15
28	Prospective ultramorphological characterization of human hair by optical coherence tomography. Skin Research and Technology, 2009, 15, 440-443.	1.6	15
29	Multimodal evaluation of ultra-short laser pulses treatment for skin burn injuries. Biomedical Optics Express, 2017, 8, 1575.	2.9	15
30	Effect of Restorative System and Thermal Cycling on the Tooth-Restoration Interface â€“ OCT Evaluation. Operative Dentistry, 2016, 41, 162-170.	1.2	14
31	Microchannels Direct Machining using the Femtosecond Smooth Ablation Method. Physics Procedia, 2011, 12, 67-75.	1.2	13
32	Study of color centers produced in thulium doped YLF crystals irradiated by electron beam and femtosecond laser pulses. Optics Communications, 2007, 270, 340-346.	2.1	11
33	Optical coherence tomography applied to tests of skin care products in humans â€“ a case study. Skin Research and Technology, 2015, 21, 90-93.	1.6	11
34	Antimicrobial photodynamic therapy combined to periodontal treatment: Experimental model. Photodiagnosis and Photodynamic Therapy, 2017, 18, 275-278.	2.6	11
35	General model for depthâ€resolved estimation of the optical attenuation coefficients in optical coherence tomography. Journal of Biophotonics, 2019, 12, e201800402.	2.3	11
36	Production of defects in ZBLAN, ZBLAN:Tm3+ and ZBLAN:Cr3+ glasses by ultra-short pulses laser interaction. Journal of Physics and Chemistry of Solids, 2008, 69, 55-59.	4.0	9

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37	Laser induced breakdown spectroscopy (LIBS) applied to stratigrafic elemental analysis and optical coherence tomography (OCT) to damage determination of cultural heritage Brazilian coins. Proceedings of SPIE, 2009, , .	0.8	9
38	Optical Coherence Tomography: Development and Applications. , 0, , .		9
39	Color center production by femtosecond-pulse laser irradiation in fluoride crystals. Laser Physics, 2006, 16, 331-335.	1.2	8
40	Production of color centers in PMMA by ultrashort laser pulses. Radiation Physics and Chemistry, 2010, 79, 355-357.	2.8	8
41	Assessment of the preventive effects of Nd:YAG laser associated with fluoride on enamel caries using optical coherence tomography and FTIR spectroscopy. PLoS ONE, 2021, 16, e0254217.	2.5	7
42	A new method for measuring pen pressure in forensic handwriting analysis â€“ a proof of concept study. Analyst, The, 2021, 146, 1973-1980.	3.5	6
43	Photoinactivation of Yeast and Biofilm Communities of Candida albicans Mediated by ZnTnHex-2-PyP4+ Porphyrin. Journal of Fungi (Basel, Switzerland), 2022, 8, 556.	3.5	6
44	Production of stabilized color centers in YLiF4 crystals by high-intensity ultrashort laser pulses. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2560.	2.1	5
45	Characterization of the dental pulp using optical coherence tomography. , 2006, 6137, 51.		5
46	Determination of a dose-like curve for active colour centres produced in LiF single crystals by ultrashort high intensity laser pulses and a preliminary investigation of their spectral and spatial properties by confocal and atomic microscopies. Journal of Optics, 2008, 10, 104023.	1.5	5
47	Noninvasive monitoring of photodynamic therapy on skin neoplastic lesions using the optical attenuation coefficient measured by optical coherence tomography. Journal of Biomedical Optics, 2014, 20, 051007.	2.6	5
48	Obtaining Artificially Caries-affected Dentin for in vitro Studies. Journal of Contemporary Dental Practice, 2014, 15, 12-19.	0.5	5
49	Lasers in caries diagnosis and prevention. International Journal of Applied Electromagnetics and Mechanics, 2007, 25, 627-633.	0.6	4
50	Comparative analysis of optical coherence tomography signal and microhardness for demineralization evaluation of human tooth enamel. Proceedings of SPIE, 2012, , .	0.8	4
51	Optical coherence tomography to evaluate the effects of oxidative hair dye on the fiber. Skin Research and Technology, 2016, 22, 430-436.	1.6	4
52	Enhancement of blue thulium emission on Nd:Yb:Tm-doped YLF crystals. , 2006, 6100, 270.		3
53	Fluoride crystals growth and color center production by high intensity ultra short laser pulses. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1060-1065.	0.8	3
54	Dependence of optical attenuation coefficient and mechanical tension of irradiated human cartilage measured by optical coherence tomography. Cell and Tissue Banking, 2015, 16, 47-53.	1.1	3

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55	Particle size and morphological characterization of cosmetic emulsified systems by Optical Coherence Tomography (OCT). Brazilian Journal of Pharmaceutical Sciences, 2016, 52, 273-280.	1.2	3
56	Microfluidic volumetric flow determination using optical coherence tomography speckle: An autocorrelation approach. Journal of Applied Physics, 2016, 119, 163105.	2.5	3
57	Photodynamic therapy on bacterial reduction in dental caries: in vivo study. Proceedings of SPIE, 2010, , .	0.8	2
58	Development of traceability methodology for optical coherence tomography (OCT) using step height standard as calibration reference. Proceedings of SPIE, 2011, , .	0.8	2
59	Improving axial resolution in spectral domain low-coherence interferometry through fast Fourier transform harmonic artifacts. Optical Engineering, 2014, 53, 073106.	1.0	2
60	Dependence of optical attenuation coefficient and mechanical tension of irradiated human cartilage measured by optical coherence tomography. Cell and Tissue Banking, 2014, 15, 337-343.	1.1	2
61	Optical coherence tomography for blood glucose monitoring through signal attenuation. Proceedings of SPIE, 2016, , .	0.8	2
62	Optical-coherence-tomography-based algorithm for handwriting forensic analysis. , 2020, , .		2
63	Role of non-carious cervical lesions multicausality in the behavior of respective restorations. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 131, 105232.	3.1	2
64	Comparison of linear polarization degree in healthy and wounded rat skin. , 2001, , .		1
65	Applying optical coherence tomography in dental restoration. , 0, , .		1
66	Stabilized color centers created by high-intensity ultra-short pulse laser in pure YLF crystals. Journal of Luminescence, 2007, 122-123, 318-321.	3.1	1
67	Inhibition of enamel remineralization with blue LED: an in vitro study. , 2009, , .		1
68	Real time optical coherence tomography monitoring of Candida albicans biofilm in vitro during photodynamic treatment. , 2010, , .		1
69	Fluorescence Properties of Colour Centres Produced by Ultrashort Laser Irradiation in LiF Crystals. Journal of Physics: Conference Series, 2010, 249, 012009.	0.4	1
70	Photodynamic therapy induces epidermal thickening in hairless mice skin: an optical coherence tomography assessment. , 2014, , .		1
71	Development of a dynamic interferometric focusing system for femtosecond laser machining. , 2017, , .		1
72	Using Optical Attenuation Coefficient to Monitor the Efficacy of Fluoride and Nd:YAG Laser to Control Dentine Erosion. Applied Sciences (Switzerland), 2019, 9, 1485.	2.5	1

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73	Nondestructive evaluation of fused filament fabrication 3D printed structures using optical coherence tomography. Rapid Prototyping Journal, 2020, 26, 1853-1860.	3.2	1
74	Backscattered light properties during femtosecond laser ablation and development of a dynamic interferometric focusing system. , 2018, , .		1
75	Harmonic Generation in Argon by Femtosecond Ti:Sapphire Laser. Springer Proceedings in Physics, 2014, , 209-213.	0.2	1
76	Optical coherence tomography characterization of femtosecond laser manufactured microfluidic circuits. , 2018, , .		1
77	Study of point defects created by high-intensity ultrashort pulse laser in YLF crystals. , 2005, , .		0
78	Evaluation of in vitro dental restoration by optical coherence tomography. , 0, , .		0
79	Carious growth monitoring with optical coherence tomography. , 2006, , .		0
80	Confocal and Atomic Force Microscopies of Color Centers Produced by Ultrashort Laser Irradiation in LiF Crystals. AIP Conference Proceedings, 2008, , .	0.4	0
81	Lidar-like equation model for optical coherence tomography signal solution. , 2011, , .		0
82	Polarization sensitive and Mueller matrix OCT measurements and data analysis. , 2011, , .		0
83	New speckle analysis algorithm for flow visualization in optical coherence tomography images. , 2015, , .		0
84	Attenuation coefficient of the light in skin of BALB/c and C57BL/6 mice. , 2015, , .		0
85	Enhance resolution on OCT profilometry measurements using harmonic artifacts. Proceedings of SPIE, 2015, , .	0.8	0
86	New speckle analysis method for optical coherence tomography signal based on autocorrelation. , 2015, , .		0
87	Analysis of photodynamic cream effect in dental caries using optical coherence tomography. Proceedings of SPIE, 2015, , .	0.8	0
88	Analysis of enamel/restoration interface submitted cariogenic challenge and fluoride release. Microscopy Research and Technique, 2021, 84, 2857-2866.	2.2	0
89	DeterminaÃ§Ã£o de caracterÃsticas mecÃ¢nicas de folhas de papel utilizando a tÃ©cnica de tomografia por coerÃªncia Ã³ptica, e suas aplicaÃ§Ãµes na Ã¡rea forense. Revista Brasileira De Ensino De Fisica, 0, 44, .	0.2	0