

# Virgilio Anjos

## List of Publications by Year in descending order

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100  
papers

1,778  
citations

279487

23  
h-index

329751

37  
g-index

101  
all docs

101  
docs citations

101  
times ranked

2035  
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin geographical classification of green coffee beans ( <i>Coffea arabica</i> L.) produced in different regions of the Minas Gerais state by FT-MIR and chemometric. <i>Current Research in Food Science</i> , 2022, 5, 298-305.	2.7	18
2	Upconversion and near infrared emission in Yb <sup>3+</sup> /Tm mediated by ZnTe crystals in oxide glasses. <i>Optical Materials</i> , 2022, 124, 111843.	1.7	4
3	High resolution raman spectroscopy of raw and UHT bovine and Goat milk. <i>Measurement Food</i> , 2022, 6, 100029.	0.8	5
4	Suppression of Thermal Conductivity Enhancement in Carbon Nanofluids Caused by Surfactant High Concentration. <i>Journal of Nanofluids</i> , 2022, 11, 545-551.	1.4	1
5	Spectroscopic investigations on Yb <sup>3+</sup> doped and Pr <sup>3+</sup> /Yb <sup>3+</sup> codoped tellurite glasses for photonic applications. <i>Journal of Rare Earths</i> , 2021, 39, 33-42.	2.5	26
6	Multi-scale study of the integrated use of the carbohydrate fractions of sugarcane bagasse for ethanol and xylitol production. <i>Renewable Energy</i> , 2021, 163, 1343-1355.	4.3	35
7	Raman spectral peak positions of olivine (Fo <sub>100</sub> Fe) as fast methodology for classifying chondrites. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1206-1211.	1.2	3
8	Structural and thermal study of ZnTe nanocrystals doped with Cr and Mn in phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2021, 561, 120745.	1.5	4
9	Use of Scanning Electron Microscopy with Energy Dispersive Spectroscopy to detect metallic contamination in candies. <i>Food Packaging and Shelf Life</i> , 2021, 28, 100649.	3.3	2
10	Mineralogical characterization of an eucrite Serra Pelada by Raman and XRD. <i>Vibrational Spectroscopy</i> , 2021, 115, 103259.	1.2	1
11	Use of antimicrobials in patients with COVID-19 without prior evaluation of an associated bacterial infection. <i>Research, Society and Development</i> , 2021, 10, e264101220410.	0.0	0
12	Comparative data on effects of alkaline pretreatments and enzymatic hydrolysis on bioemulsifier production from sugarcane straw by <i>Cutaneotrichosporon mucoides</i> . <i>Bioresource Technology</i> , 2020, 301, 122706.	4.8	17
13	Influence of the xanthan gum as a crosslinking agent on the physicochemical properties of chitosan microparticles containing green coffee extract. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 29, 101782.	1.5	2
14	On the use of Europium (Eu) for designing new metal-based anticancer drugs. <i>Biochemical and Biophysical Research Communications</i> , 2020, 531, 372-376.	1.0	6
15	Effect of compositional changes on the structural properties of borophosphate glasses: ATR-FTIR and Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2020, 110, 103137.	1.2	15
16	Detection of organic or inorganic material in Martian meteorite Zagami by vibrational spectroscopy?. <i>International Journal of Astrobiology</i> , 2020, 19, 438-445.	0.9	2
17	Thermo-optical properties of glasses doped with semiconductor or metallic nanoparticles and rare-earth ions. , 2020, , 5-29.		0
18	Detection of antibiotic residues in Cow's milk: A theoretical and experimental vibrational study. <i>Journal of Molecular Structure</i> , 2020, 1215, 128221.	1.8	12

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19	Raman Spectroscopy as a fast tool for whey quantification in raw milk. <i>Vibrational Spectroscopy</i> , 2020, 111, 103150.	1.2	11
20	Influence of silver ions in Eu <sup>3+</sup> doped glass for efficient reddish-orange and white light generation. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155548.	2.8	11
21	Thermal and nonlinear optical properties of Tm <sup>3+</sup> -doped tellurite glasses. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 2971-2978.	2.0	9
22	Investigations on the interaction of water-soluble semiconductor polymer with thioglycolic acid (TGA) capped CdTe quantum dots. <i>Optical Materials</i> , 2019, 93, 70-75.	1.7	1
23	Evaluation of the effects of mild heat in bovine milk by time resolved fluorescence. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 219, 457-462.	2.0	1
24	Broadband emission and energy transfer process between silver species in photoluminescent borophosphate glasses. <i>Journal of Luminescence</i> , 2019, 210, 444-451.	1.5	5
25	FTIR-ATR spectroscopy as a tool for the rapid detection of adulterations in butter cheeses. <i>LWT - Food Science and Technology</i> , 2019, 109, 63-69.	2.5	34
26	Evaluation of butter oil adulteration with soybean oil by FT-MIR and FT-NIR spectroscopies and multivariate analyses. <i>LWT - Food Science and Technology</i> , 2019, 107, 1-8.	2.5	47
27	Erbium 1.55 $\mu$ m luminescence enhancement due to copper nanoparticles plasmonic activity in tellurite glasses. <i>Materials Chemistry and Physics</i> , 2019, 224, 73-78.	2.0	20
28	FTIR-ATR determination of protein content to evaluate whey protein concentrate adulteration. <i>LWT - Food Science and Technology</i> , 2019, 99, 166-172.	2.5	109
29	Energy transfer process and radiative properties of 1.06 $\mu$ m emission in Nd <sup>3+</sup> doped TeO <sub>2</sub> -ZnO-Na <sub>2</sub> O glasses. <i>Journal of Luminescence</i> , 2018, 196, 399-405.	1.5	34
30	The effect of excitation intensity variation and silver nanoparticle codoping on nonlinear optical properties of mixed tellurite and zinc oxide glass doped with Nd <sub>2</sub> O <sub>3</sub> studied through ultrafast z-scan spectroscopy. <i>Optical Materials</i> , 2018, 79, 397-402.	1.7	31
31	Raman spectroscopy as a depth sensor in cubic phase n-GaN. <i>Vibrational Spectroscopy</i> , 2018, 99, 100-103.	1.2	1
32	Characterization and detection of adulterated whey protein supplements using stationary and time-resolved fluorescence spectroscopy. <i>LWT - Food Science and Technology</i> , 2018, 97, 180-186.	2.5	13
33	Long-Term Ripening Evaluation of Ewes'™ Cheeses by Fourier-Transformed Infrared Spectroscopy under Real Industrial Conditions. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-9.	0.6	19
34	Detection of Veterinary Antimicrobial Residues in Milk through Near-Infrared Absorption Spectroscopy. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-6.	0.6	17
35	Analysis by Raman and infrared spectroscopy combined with theoretical studies on the identification of plasticizer in PVC films. <i>Vibrational Spectroscopy</i> , 2018, 98, 134-138.	1.2	22
36	Structural and spectroscopic properties of Yb <sup>3+</sup> doped borophosphate glasses for IR laser application. <i>Ceramics International</i> , 2018, 44, 20790-20797.	2.3	24

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37	Temperature dependent upconversion and spectroscopic properties of Nd <sup>3+</sup> doped barium bismuth tellurite glasses. <i>Journal of Non-Crystalline Solids</i> , 2018, 498, 89-94.	1.5	15
38	Doped tellurite glasses: Extending near-infrared emission for near-2.0 $\mu$ m amplifiers. <i>International Journal of Applied Glass Science</i> , 2017, 8, 216-225.	1.0	11
39	Detection of adulteration of goat milk powder with bovine milk powder by front-face and time resolved fluorescence. <i>Food Control</i> , 2017, 81, 168-172.	2.8	24
40	Facile one-pot synthesis of hexagons of NaSrB <sub>5</sub> O <sub>9</sub> :Tb <sup>3+</sup> phosphor for solid-state lighting. <i>Materials Research Express</i> , 2017, 4, 046201.	0.8	19
41	Quantification of whole ultra high temperature UHT milk waste as a function of packages type and design. <i>Journal of Cleaner Production</i> , 2017, 153, 483-490.	4.6	11
42	Time resolved fluorescence of milk powders – A pilot study. <i>International Dairy Journal</i> , 2017, 64, 31-36.	1.5	9
43	Time resolved fluorescence of cow and goat milk powder. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 193-199.	2.0	20
44	Results from portable and of low cost equipment developed for detection of milk adulterations. <i>Food Science and Technology</i> , 2017, 37, 38-41.	0.8	9
45	Vibrational spectroscopy for milk fat quantification: line shape analysis of the Raman and infrared spectra. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 692-698.	1.2	19
46	Coherent heat transport in 2D phononic crystals with acoustic impedance mismatch. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 035017.	0.8	3
47	Electronic excitations in narrow quantum wells via intersubband Raman scattering: Theoretical considerations. <i>Vibrational Spectroscopy</i> , 2016, 87, 193-198.	1.2	1
48	Quantum efficiency of Yb <sup>3+</sup> – ZnTe co-doped phosphate glass system. <i>Journal of Luminescence</i> , 2016, 176, 381-386.	1.5	7
49	The effects of Nd <sub>2</sub> O <sub>3</sub> concentration in the laser emission of TeO <sub>2</sub> -ZnO glasses. <i>Optical Materials</i> , 2016, 58, 84-88.	1.7	47
50	Thermal and structural analysis of germanate glass and thin films co-doped with silver nanoparticles and rare earth ions with insights from visible and Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2016, 87, 143-148.	1.2	12
51	Resonant electronic Raman scattering: A BCS-like system. <i>Physical Review B</i> , 2016, 93, .	1.1	2
52	Thermal analyzes of phosphate glasses doped with Yb <sup>3+</sup> and ZnTe nanocrystals. <i>Journal of Luminescence</i> , 2016, 169, 353-358.	1.5	12
53	Phononic band structure in carbon microtube composites. <i>RSC Advances</i> , 2015, 5, 11248-11253.	1.7	13
54	Quantification of Extra-virgin Olive Oil Adulteration with Soybean Oil: a Comparative Study of NIR, MIR, and Raman Spectroscopy Associated with Chemometric Approaches. <i>Food Analytical Methods</i> , 2015, 8, 2339-2346.	1.3	85

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55	Quantification of whey in fluid milk using confocal Raman microscopy and artificial neural network. <i>Journal of Dairy Science</i> , 2015, 98, 3559-3567.	1.4	47
56	CARACTERIZAÇÃfO PROTEICA DE LEITE PASTEURIZADO, SORO DE QUEIJO E SUAS MISTURAS PELO USO DO ANALISADOR CEM SPRINT TM. <i>Revista Do Instituto De LatÁcinios CÂndido Tostes</i> , 2015, 70, 192.	0.3	1
57	Laser emission of a Nd-doped mixed tellurite and zinc oxide glass. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 1590.	0.9	48
58	Raman Spectroscopy of SiO2â€Na2Oâ€Al2O3â€B2O3 glass doped with Nd3+ and CdS nanocrystals. <i>Journal of Alloys and Compounds</i> , 2014, 582, 730-733.	2.8	25
59	Laser performance parameters of Yb3+ doped UV-transparent phosphate glasses. <i>Chemical Physics Letters</i> , 2014, 592, 164-169.	1.2	41
60	Effect of Ag nanoparticles on the radiative properties of tellurite glasses doped with Er3+, Yb3+ and Tm3+ ions. <i>Optical Materials</i> , 2014, 37, 281-286.	1.7	23
61	Multi-scale structural and chemical analysis of sugarcane bagasse in the process of sequential acidâ€base pretreatment and ethanol production by <i>Scheffersomyces shehatae</i> and <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2014, 7, 63.	6.2	134
62	Eu3+ emission in phosphate glasses with high UV transparency. <i>Journal of Luminescence</i> , 2014, 154, 294-297.	1.5	47
63	Zinc oxide thin films on silicon carbide substrates (ZnO/SiC): electro-optical properties and electrically active defects. <i>Semiconductor Science and Technology</i> , 2014, 29, 045021.	1.0	14
64	The Behavior of the Double Barrier Heterostructure Coherent Phonons Generator. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2235-2238.	0.8	0
65	Thermo-optical properties of silver and gold nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 557-564.	2.0	50
66	Optical properties of oxide glasses with semiconductor nanoparticles co-doped with rare earth ions. <i>Chemical Physics Letters</i> , 2013, 588, 188-192.	1.2	12
67	Effect of Na2O concentration on the lifetime of Er3+-doped sodium silicate glass. <i>RSC Advances</i> , 2013, 3, 24298.	1.7	5
68	Ultra-structural mapping of sugarcane bagasse after oxalic acid fiber expansion (OAFEX) and ethanol production by <i>Candida shehatae</i> and <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2013, 6, 4.	6.2	49
69	Thermal characterization of glasses prepared from simulated compositions of lunar soil JSC-1A. <i>Journal of Non-Crystalline Solids</i> , 2013, 359, 56-59.	1.5	17
70	Control of growth and the processes of energy transfer from CdSe quantum dots for Nd3+ ions in a vitreous system: Thermal annealing time. <i>Applied Physics Letters</i> , 2012, 101, 121903.	1.5	12
71	Optical and thermal investigation of GeO2â€PbO thin films doped with Au and Ag nanoparticles. <i>Thin Solid Films</i> , 2012, 520, 2667-2671.	0.8	10
72	Electronic Raman Scattering in Quantum Wells. <i>Physics Procedia</i> , 2012, 28, 48-52.	1.2	3

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73	The effect of temperature on a double-barrier generator of terahertz coherent phonons. <i>Physics Procedia</i> , 2012, 28, 57-61.	1.2	1
74	Effects of treatment of milk by ultraviolet radiation (UV) compared to pasteurization. <i>Revista Do Instituto De LatÁcinios CÂndido Tostes</i> , 2012, 67, 81-82.	0.3	0
75	Thermal characterization of iron phosphate glasses for nuclear waste disposal. <i>Optical Materials</i> , 2011, 33, 1975-1979.	1.7	21
76	Optical and spectroscopic properties of soda lime alumino-silicate glasses doped with erbium and silver. <i>Optical Materials</i> , 2011, 33, 1995-1998.	1.7	22
77	Temperature coefficient of optical path of tellurite glasses doped with gold nanoparticles. <i>Optical Materials</i> , 2011, 34, 239-243.	1.7	16
78	Thermal diffusivity of a SNAB glass system doped with CdS nanocrystals and Nd <sup>3+</sup> . <i>Chemical Physics Letters</i> , 2011, 504, 67-70.	1.2	12
79	Influence of crystal field potential on the spectroscopic parameters of SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -PbO glass doped with Nd <sub>2</sub> O <sub>3</sub> . <i>Journal of Luminescence</i> , 2011, 131, 1029-1036.	1.5	19
80	Optical spectroscopy of Nd <sup>3+</sup> ions in a nanostructured glass matrix. <i>Journal of Luminescence</i> , 2011, 131, 1401-1406.	1.5	21
81	Energy transfer between CdS nanocrystals and neodymium ions embedded in vitreous substrates. <i>Optics Letters</i> , 2010, 35, 1329.	1.7	22
82	Thermo-optical properties of tellurite glasses doped with Eu <sup>3+</sup> and Au nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 155404.	1.3	28
83	Thermal lens investigation in amorphous SiN. <i>Applied Surface Science</i> , 2008, 255, 698-700.	3.1	6
84	Ab initio calculations of some electronic and elastic properties for SiC polytypes. <i>Intermetallics</i> , 2008, 16, 1040-1042.	1.8	28
85	Can one-dimensional electron gas be generated in vicinal steps of GaAs?. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 8715-8721.	0.7	1
86	Thermal Lens Technique for the Determination of SiC Thermo-Optical Properties. <i>Materials Science Forum</i> , 2006, 527-529, 703-706.	0.3	1
87	Thermal-lens and photo-acoustic methods for the determination of SiC thermal properties. <i>Microelectronics Journal</i> , 2005, 36, 977-980.	1.1	15
88	Time-resolved thermal lens measurements of the thermo-optical properties of glasses at low temperature down to 20 K. <i>Physical Review B</i> , 2005, 71, .	1.1	56
89	dc voltage effect on elementary excitations of a two-dimensional electron gas. <i>Physical Review B</i> , 2004, 70, .	1.1	4
90	Time resolved visible emission from Er <sup>3+</sup> -doped SiN thin films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 17, 137-138.	1.3	3

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91	Full-relativistic calculations of the SrTiO <sub>3</sub> carrier effective masses and complex dielectric function. Applied Physics Letters, 2003, 82, 3074-3076.	1.5	53
92	Decay dynamics of the green luminescence in Er <sup>3+</sup> -doped SiN alloys. Journal of Physics Condensed Matter, 2003, 15, 4859-4867.	0.7	0
93	Band gap renormalization in resonant Raman spectra of multilayer systems. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 180-183.	1.3	2
94	Collective and single-particle excitations in Raman scattering of multilayer $\delta$ -doped systems. Physical Review B, 2000, 63, .	1.1	5
95	Time-resolved interband transitions in periodic multilayer $\delta$ -doped systems. Physical Review B, 1998, 58, 7205-7209.	1.1	5
96	Resonant Raman spectra of spin-density transitions in periodically $\delta$ -doped GaAs. Physical Review B, 1994, 49, 7805-7808.	1.1	13
97	Luminescent Glass for Lasers and Solar Concentrators. , 0, , .		4
98	Espectroscopia de fotoelétrons por Raios X: Conceitos básicos e os processos experimentais. Revista Brasileira De Ensino De Física, 0, 43, .	0.2	0
99	FT-NIR associado a método químico para discriminar resíduos de antimicrobianos e antiparasitário no leite. DEMETRA: Alimentação, Nutrição & Saúde, 0, 15, e47945.	0.2	0
100	Use of mid infrared spectroscopy to analyze the ripening of Brazilian bananas. Food Science and Technology, 0, 42, .	0.8	1