

Luis H C Andrade

List of Publications by Year in descending order

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92
papers

1,620
citations

257450

24
h-index

361022

35
g-index

93
all docs

93
docs citations

93
times ranked

1738
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation, characterization, and photoluminescence study of PVA/ZnO nanocomposite films. <i>Materials Chemistry and Physics</i> , 2011, 128, 371-376.	4.0	122
2	Cytotoxic and genotoxic effects of silver nanoparticles on meristematic cells of <i>Allium cepa</i> roots: A close analysis of particle size dependence. <i>Science of the Total Environment</i> , 2019, 660, 459-467.	8.0	102
3	Tunable light emission and similarities with garnet structure of Ce-doped LSCAS glass for white-light devices. <i>Journal of Alloys and Compounds</i> , 2012, 510, 54-59.	5.5	47
4	Structural, thermal, optical properties and cytotoxicity of PMMA/ZnO fibers and films: Potential application in tissue engineering. <i>Applied Surface Science</i> , 2016, 385, 257-267.	6.1	46
5	Thermal stability and crystallization behavior of TiO ₂ doped ZBLAN glasses. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2907-2910.	3.1	45
6	Eu ³⁺ -doped alumino-phosphate glass for ratiometric thermometer based on the excited state absorption. <i>Journal of Luminescence</i> , 2018, 193, 39-43.	3.1	45
7	Spectroscopic properties, concentration quenching, and laser investigations of Yb ³⁺ -doped calcium aluminosilicate glasses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 2510.	2.1	40
8	Determination of the Biodiesel Content in Diesel/Biodiesel Blends: A Method Based on Fluorescence Spectroscopy. <i>Journal of Fluorescence</i> , 2011, 21, 1027-1031.	2.5	40
9	Decontamination and disinfection of wastewater by photocatalysis under UV/visible light using nano-catalysts based on Ca-doped ZnO. <i>Journal of Environmental Management</i> , 2019, 240, 485-493.	7.8	37
10	Intra- and interspecific variation of cuticular hydrocarbon composition in two <i>Ectatomma</i> species (Hymenoptera: Formicidae) based on Fourier transform infrared photoacoustic spectroscopy. <i>Genetics and Molecular Research</i> , 2008, 7, 559-566.	0.2	37
11	Long Fluorescence Lifetime of Ti^{3+} Low Silica Calcium Aluminosilicate Glass. <i>Physical Review Letters</i> , 2008, 100, 027402.	7.8	36
12	Tunable color temperature of Ce ³⁺ /Eu ²⁺ , 3+ co-doped low silica aluminosilicate glasses for white lighting. <i>Optics Express</i> , 2012, 20, 10034.	3.4	35
13	Effects of Al ³⁺ concentration on the optical, structural, photocatalytic and cytotoxic properties of Al-doped ZnO. <i>Journal of Alloys and Compounds</i> , 2017, 729, 978-987.	5.5	35
14	Relation among optical, thermal and thermo-optical properties and niobium concentration in tellurite glasses. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2146-2150.	3.1	32
15	Thermo-optical characterization of tellurite glasses by thermal lens, thermal relaxation calorimetry and interferometric methods. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 3603-3607.	3.1	30
16	Broad combined orange-red emissions from Eu ²⁺ - and Eu ³⁺ -doped low-silica calcium aluminosilicate glass. <i>Optics Express</i> , 2012, 20, 12658.	3.4	30
17	Synthesis and luminescent properties of Eu ³⁺ /Eu ²⁺ co-doped calcium aluminosilicate glass-ceramics. <i>Journal of Luminescence</i> , 2016, 169, 528-533.	3.1	29
18	On the efficient Te ⁴⁺ -Yb ³⁺ cooperative energy transfer mechanism in tellurite glasses: A potential material for luminescent solar concentrators. <i>Journal of Alloys and Compounds</i> , 2019, 781, 1119-1126.	5.5	29

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19	Spectroscopic properties of Nd ³⁺ -doped tungsten-tellurite glasses. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 88, 54-59.	4.0	28
20	Age-related changes in the surface pheromones of the wasp <i>Mischocyttarus consimilis</i> (Hymenoptera: Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	28
21	The use of thermal lens spectroscopy to assess oil-biodiesel blends. <i>Fuel</i> , 2013, 103, 506-511.	6.4	27
22	On observation of the downconversion mechanism in Er ³⁺ /Yb ³⁺ co-doped tellurite glass using thermal and optical parameters. <i>Journal of Luminescence</i> , 2015, 157, 365-370.	3.1	27
23	Emission tunability and local environment in europium-doped OH ⁻ -free calcium aluminosilicate glasses for artificial lighting applications. <i>Materials Chemistry and Physics</i> , 2015, 156, 214-219.	4.0	25
24	Modeling the population lens effect in thermal lens spectrometry. <i>Optics Letters</i> , 2013, 38, 422.	3.3	24
25	Influence of lattice modifier on the nonlinear refractive index of tellurite glass. <i>Ceramics International</i> , 2017, 43, 15201-15204.	4.8	24
26	High Nd ³⁺ -Yb ³⁺ energy transfer efficiency in tungsten-tellurite glass: A promising converter for solar cells. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1956-1962.	3.8	23
27	Use of fish scales in environmental monitoring by the application of Laser-Induced Breakdown Spectroscopy (LIBS). <i>Chemosphere</i> , 2019, 228, 258-263.	8.2	23
28	Spectroscopic investigation and interest of Pr ³⁺ -doped calcium aluminosilicate glass. <i>Journal of Luminescence</i> , 2019, 210, 376-382.	3.1	23
29	In vitro and in vivo impact assessment of eco-designed CuO nanoparticles on non-target aquatic photoautotrophic organisms. <i>Journal of Hazardous Materials</i> , 2020, 396, 122484.	12.4	23
30	Observation of a Te ⁴⁺ center with broad red emission band and high fluorescence quantum efficiency in TeO ₂ -Li ₂ O glass. <i>Journal of Luminescence</i> , 2018, 198, 24-27.	3.1	21
31	Use of Fourier transform infrared spectroscopy to monitor sugars in the beer mashing process. <i>Food Chemistry</i> , 2018, 263, 112-118.	8.2	20
32	Monitoring of the ester production by near-infrared thermal lens spectroscopy. <i>Fuel</i> , 2019, 253, 1090-1096.	6.4	20
33	Determination of the biodiesel content in diesel/biodiesel blends by using the near-infrared thermal lens spectroscopy. <i>Fuel</i> , 2018, 212, 309-314.	6.4	19
34	Sonochemical synthesis of highly luminescent silver complexes: Photophysical properties and preliminary in vitro antitumor and antibacterial assays. <i>Inorganica Chimica Acta</i> , 2019, 492, 235-242.	2.4	18
35	Reproductive Status of the social wasp <i>Polistes versicolor</i> (Hymenoptera, Vespidae). <i>Sociobiology</i> , 2014, 61, .	0.5	18
36	Eu ²⁺ -doped OH ⁻ free calcium aluminosilicate glass: A phosphor for smart lighting. <i>Journal of Luminescence</i> , 2013, 143, 600-604.	3.1	17

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37	Fourier transform infrared photoacoustic spectroscopy as a potential tool in assessing the role of diet in cuticular chemical composition of <i>Ectatomma brunneum</i> . <i>Genetics and Molecular Research</i> , 2014, 13, 10035-10048.	0.2	16
38	Detection of soybean rust contamination in soy leaves by FTIR photoacoustic spectroscopy. <i>European Physical Journal: Special Topics</i> , 2008, 153, 539-541.	2.6	15
39	Discrimination of Transgenic and Conventional Soybean Seeds by Fourier Transform Infrared Photoacoustic Spectroscopy. <i>Applied Spectroscopy</i> , 2008, 62, 1044-1047.	2.2	15
40	Characterization of Nd ³⁺ -doped Tellurite Glasses with Low OH Content. <i>Materials Research</i> , 2015, 18, 2-7.	1.3	15
41	<i>In situ</i> structural analysis of calcium aluminosilicate glasses under high pressure. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 315402.	1.8	15
42	Development of a Neutral Diketopyrrolopyrrole Phosphine Oxide for the Selective Bioimaging of Mitochondria at the Nanomolar Level. <i>Chemistry - A European Journal</i> , 2020, 26, 3173-3180.	3.3	15
43	Social Parasitism and Dynamics of Cuticular Hydrocarbons in Paper Wasps of the Genus <i>Mischocyttarus</i> . <i>Journal of the Kansas Entomological Society</i> , 2013, 86, 69-77.	0.2	14
44	Luminescence quantum efficiency at 1.514 μm of Er ³⁺ -doped tellurite glass determined by thermal lens spectroscopy. <i>Optical Materials</i> , 2013, 35, 2400-2404.	3.6	13
45	Resonant excited state absorption and relaxation mechanisms in Tb ³⁺ -doped calcium aluminosilicate glasses: an investigation by thermal mirror spectroscopy. <i>Optics Letters</i> , 2013, 38, 4667.	3.3	13
46	Fluorescence quantum yield of Yb ³⁺ -doped tellurite glasses determined by thermal lens spectroscopy. <i>Optical Materials</i> , 2017, 63, 19-25.	3.6	13
47	Wastewater treatment using Mg-doped ZnO nano-semiconductors: A study of their potential use in environmental remediation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 407, 113078.	3.9	13
48	Near-near-infrared thermal lens spectroscopy to assess overtones and combination bands of sulfentrazone pesticide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 32-36.	3.9	12
49	Intraspecific variation and influence of diet on the venom chemical profile of the <i>Ectatomma brunneum</i> Smith (Formicidae) ant evaluated by photoacoustic spectroscopy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 175, 200-206.	3.8	11
50	Investigation of allowed and forbidden electronic transitions in rare earth doped materials for laser cooling application by thermal lens spectroscopy. <i>Optical Materials</i> , 2019, 95, 109195.	3.6	11
51	Effect of lithium addition on Te ⁴⁺ emission in TeO ₂ -Li ₂ O glasses. <i>Journal of Non-Crystalline Solids</i> , 2019, 524, 119609.	3.1	11
52	On-line in situ monitoring of the soybean oil and ethanol transesterification reaction by fluorescence spectroscopy. <i>Fuel</i> , 2015, 145, 109-115.	6.4	10
53	Fourier transform-infrared photoacoustic spectroscopy applied in fish scales to assess environmental integrity: A case study of <i>Astyanax altiparanae</i> species. <i>Infrared Physics and Technology</i> , 2015, 72, 84-89.	2.9	10
54	Chemical signals might mediate interactions between females and juveniles of <i>Latrodectus geometricus</i> (Araneae: Theridiidae). <i>Behavioural Processes</i> , 2016, 126, 27-35.	1.1	10

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55	High Surface-Enhanced Raman Scattering (SERS) Amplification Factor Obtained with Silver Printed Circuit Boards and the Influence of Phenolic Resins for the Characterization of the Pesticide Thiram. <i>Applied Spectroscopy</i> , 2016, 70, 1157-1164.	2.2	9
56	How does aquatic macrophyte <i>Salvinia auriculata</i> respond to nanoceria upon an increased CO ₂ source? A Fourier transform-infrared photoacoustic spectroscopy and chlorophyll a fluorescence study. <i>Ecotoxicology and Environmental Safety</i> , 2019, 180, 526-534.	6.0	9
57	Eu ²⁺ , ³⁺ /Pr ³⁺ co-doped calcium aluminosilicate glass for tunable white lighting devices. <i>Journal of Alloys and Compounds</i> , 2020, 817, 153319.	5.5	9
58	High values of gain cross section and luminescence quantum efficiency in OH ⁻ -free Ti ³⁺ -doped low-silica calcium aluminosilicate glass. <i>Optics Letters</i> , 2010, 35, 1055.	3.3	8
59	White-light-emitting KCl:Eu ²⁺ /KCN crystal for solid-state lighting devices. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10149-10156.	5.5	8
60	Observation of intra- and interspecific differences in the nest chemical profiles of social wasps (Hymenoptera: Polistinae) using infrared photoacoustic spectroscopy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 176, 165-170.	3.8	8
61	Combination of broad emission bands of Ti ³⁺ , ⁴⁺ / Eu ²⁺ , ³⁺ co-doped OH ⁻ free low silica calcium aluminosilicate glasses as emitting phosphors for white lighting devices. <i>Journal of Alloys and Compounds</i> , 2021, 853, 155898.	5.5	8
62	Intraspecific differentiation of sandflies specimens by optical spectroscopy and multivariate analysis. <i>Journal of Biophotonics</i> , 2021, 14, e202000412.	2.3	8
63	True absolute determination of photoluminescence quantum yields by coupling multiwavelength thermal lens and photoluminescence spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25156-25164.	2.8	8
64	Inversion in the temperature coefficient of the optical path length close to the glass transition temperature in tellurite glasses. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	7
65	Laser-induced lensing effects in solid-state optical refrigerators. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	7
66	Modeling transesterification reaction kinetics using fluorescence spectroscopy to interpret biodiesel production. <i>Chemical Engineering Science</i> , 2020, 211, 115292.	3.8	6
67	Laser cooling of Yb ³⁺ :KYW. <i>Optics Express</i> , 2020, 28, 2778.	3.4	6
68	Differentiation of Neotropical Fish Species with Statistical Analysis of Fourier Transform Infrared Photoacoustic Spectroscopy Data. <i>Applied Spectroscopy</i> , 2012, 66, 782-785.	2.2	5
69	Uncommon and Emissive { [Au ₂ (C ₃ H ₆ NS ₂) ₂] ₂ } [Au(C ₃ H ₆ NS ₂) ₂] ₂ Mixed Au ⁺ and Au ³⁺ Pseudotetranuclear Crystalline Compound: Synthesis, Structural Characterization, and Optical Properties. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2248-2256.	2.5	5
70	Discrimination of <i>Astyanax altiparanae</i> (Characiformes, Characidae) populations by applying Fourier transform-infrared photoacoustic spectroscopy in the fish scales. <i>Infrared Physics and Technology</i> , 2016, 76, 303-307.	2.9	5
71	New approach to application of mid-infrared photoacoustic spectroscopy in forensic analysis: Study with the necrophagous blow fly <i>Chrysomya megacephala</i> (Diptera: Calliphoridae). <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 209, 111934.	3.8	5
72	Effect of Larval Topical Application of Juvenile Hormone on Cuticular Chemical Composition of <i>Mischocyttarus consimilis</i> (Vespidae: Polistinae) Females. <i>Sociobiology</i> , 2020, 67, 433.	0.5	5

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73	Morphophysiological and cuticular chemical alterations caused by <i>Xenos</i> entomophagus endoparasites in the social wasp <i>Polistes ferreri</i> (Hymenoptera, Vespidae). <i>Parasitology</i> , 2016, 143, 1939-1944.	1.5	4
74	Al ₂ O ₃ nanoparticle polymorphs: effects of Zn ²⁺ doping on the structural, optical and cytotoxic properties. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	4
75	Polydomy in the ant <i>Ectatomma opaciventre</i> . <i>Journal of Insect Science</i> , 2014, 14, 21.	1.5	3
76	Polydomy in the ant <i>Ectatomma opaciventre</i> . <i>Journal of Insect Science</i> , 2014, 14, 1-16.	1.5	3
77	On the induction of homogeneous bulk crystallization in Eu-doped calcium aluminosilicate glass by applying simultaneous high pressure and temperature. <i>Journal of Applied Physics</i> , 2016, 119, 245901.	2.5	3
78	Laser-induced fluorescence in fish scales to evaluate the environmental integrity of ecosystems. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 165, 80-86.	3.8	3
79	Influence of synthesis temperature and atmosphere on Te ⁴⁺ ion formation in lithium tellurite glass. <i>Ceramics International</i> , 2021, 47, 32195-32201.	4.8	3
80	New metalorgano-chalcogenide compounds based on polymeric frameworks constructed by Se ²⁺ /Hg intermolecular interactions: Preparation, structural characterization, and Raman evaluation. <i>Polyhedron</i> , 2015, 99, 96-102.	2.2	2
81	Comparison of optical spectroscopy techniques for monitoring the stages of thermoxidation of soybean biodiesel. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 217, 190-196.	3.9	2
82	Differential absorption saturation in laser cooled Yb:LiYF ₄ . <i>Optical Materials</i> , 2022, 128, 112404.	3.6	2
83	Thermal Lens Spectrometry Reveals Thermo-Optical Property Tuning of Conjugated Polymer Nanoparticles Prepared by Microfluidics. <i>ACS Applied Polymer Materials</i> , 2022, 4, 6219-6228.	4.4	2
84	A Step Forward Towards Smart White Lighting: Combination of Glass Phosphor and Blue LEDs. <i>ECS Transactions</i> , 2009, 25, 237-246.	0.5	1
85	Fluorescence analysis of iodinated acetophenone derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 139, 63-67.	3.9	1
86	A Novel Route for a Fluorescent Temperature Sensor Based on the Reabsorption Process in Sm ²⁺ -Doped KCl. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900484.	1.5	1
87	Fluorescence spectroscopy applied in lubricant oils. <i>Orbital</i> , 2018, 10, .	0.3	1
88	Low Temperature Synthesis of Several Titanium Dioxide Solid Solutions through the Sol-Gel Method. <i>Orbital</i> , 2018, 10, .	0.3	1
89	Ecological aspects of aquatic macrophytes for environmental pollution control: An eco-remedial approach. , 2022, , 497-523.		1
90	Intraspecific discrimination of fish populations by fluorescence spectroscopy. <i>Acta Scientiarum - Technology</i> , 0, 43, e48395.	0.4	0

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91	Monitoring the Transesterification Reaction of Vegetable Oil to Biodiesel by Fluorescence Spectroscopy with UV Excitation: Correlation with Viscosity. <i>Orbital</i> , 2018, 10, .	0.3	0
92	Evaluation of Inter and Intraspecific Differences in the Venom Chemical Compositions of <i>Polybia paulista</i> Wasps and <i>Ectatomma brunneum</i> Ants Using FTIR-PAS. <i>Sociobiology</i> , 2019, 66, 515.	0.5	0