

Luiz Henrique Catalani

List of Publications by Year in descending order

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115
papers

3,248
citations

147801

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168389

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119
all docs

119
docs citations

119
times ranked

4300
citing authors

#	ARTICLE	IF	CITATIONS
1	The mechanical reliability of vat photopolymerization 3D printing of isosorbide-derived polyester porous tissue engineering scaffolds.. Procedia CIRP, 2022, 110, 117-121.	1.9	1
2	Effects of the crosslinking of chitosan/DCPA particles in the antimicrobial and mechanical properties of dental restorative composites. Dental Materials, 2022, 38, 1482-1491.	3.5	3
3	Disinfection of 3D-printed protective face shield during COVID-19 pandemic. American Journal of Infection Control, 2021, 49, 512-515.	2.3	3
4	Vacancy-Induced Visible Light-Driven Fluorescence in Toxic Ion-Free Resorbable Magnetic Calcium Phosphates for Cell Imaging Applications. ACS Applied Bio Materials, 2021, 4, 3256-3263.	4.6	2
5	Filtration efficiency of a large set of COVID-19 face masks commonly used in Brazil. Aerosol Science and Technology, 2021, 55, 1028-1041.	3.1	37
6	Temporary tensile strength for cotton yarn via polymeric coating and crosslinking. Progress in Organic Coatings, 2021, 159, 106397.	3.9	2
7	Physical and Biological Properties of a Chitosan Hydrogel Scaffold Associated to Photobiomodulation Therapy for Dental Pulp Regeneration: An In Vitro and In Vivo Study. BioMed Research International, 2021, 2021, 1-10.	1.9	22
8	Histidine-based hydrogels <i>via</i> singlet-oxygen photooxidation. Soft Matter, 2021, 17, 10926-10934.	2.7	3
9	Upconversion 3D Printed Composite with Multifunctional Applications for Tissue Engineering and Photodynamic Therapy. Journal of the Brazilian Chemical Society, 2020, , .	0.6	1
10	Bromelain immobilization in cellulose triacetate nanofiber membranes from sugarcane bagasse by electrospinning technique. Enzyme and Microbial Technology, 2020, 132, 109384.	3.2	33
11	Photocrosslinking-based 3D printing of unsaturated polyesters from isosorbide: A new material for resorbable medical devices. Bioprinting, 2020, 18, e00062.	5.8	17
12	Effect of ozone therapy on wound healing in the buccal mucosa of rats. Archives of Oral Biology, 2020, 119, 104889.	1.8	9
13	Tuning protein delivery from different architectures of layer-by-layer assemblies on polymer films. Materials Advances, 2020, 1, 2043-2056.	5.4	12
14	Development of Epidermal Equivalent from Electrospun Synthetic Polymers for In Vitro Irritation/Corrosion Testing. Nanomaterials, 2020, 10, 2528.	4.1	6
15	Electrochemical quartz crystal microbalance with dissipation investigation of fibronectin adsorption dynamics driven by electrical stimulation onto a conducting and partially biodegradable copolymer. Biointerphases, 2020, 15, 021003.	1.6	10
16	Development of novel dental restorative composites with dibasic calcium phosphate loaded chitosan fillers. Dental Materials, 2020, 36, 551-559.	3.5	32
17	Polymerization Stress and Gap Formation of Self-adhesive, Bulk-fill and Flowable Composite Resins. Operative Dentistry, 2020, 45, E308-E316.	1.2	9
18	Optimization of photocrosslinkable resin components and 3D printing process parameters. Acta Biomaterialia, 2019, 97, 154-161.	8.3	43

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19	Modular Design of Programmable Mechanofluorescent DNA Hydrogels. <i>Nature Communications</i> , 2019, 10, 528.	12.8	111
20	Thermally Modified Iron-Inserted Calcium Phosphate for Magnetic Hyperthermia in an Acceptable Alternating Magnetic Field. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5506-5513.	2.6	18
21	Evaluation of cellulose nanocrystal addition on morphology, compression modulus and cytotoxicity of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) scaffolds. <i>Journal of Materials Science</i> , 2019, 54, 7198-7210.	3.7	21
22	A fast degrading PLLA composite with a high content of functionalized octacalcium phosphate mineral phase induces stem cells differentiation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 93-104.	3.1	15
23	Graphene Oxide—A Tool for the Preparation of Chemically Crosslinking Free Alginate—Chitosan—Collagen Scaffolds for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12441-12452.	8.0	152
24	Hybrid magnetic scaffolds: The role of scaffolds charge on the cell proliferation and Ca ²⁺ ions permeation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 388-396.	5.0	19
25	Improved tympanic membrane regeneration after myringoplasty surgery using an artificial biograft. <i>Materials Science and Engineering C</i> , 2017, 73, 48-58.	7.3	20
26	Green synthesis of Si-incorporated hydroxyapatite using sodium metasilicate as silicon precursor and in vitro antibiotic release studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 175, 163-172.	3.8	22
27	In vitro analysis of a local polymeric device as an alternative for systemic antibiotics in Dentistry. <i>Brazilian Oral Research</i> , 2017, 31, e92.	1.4	3
28	Sustainability & Diversity Through Chemistry. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	0
29	Biliverdin targets enolase and eukaryotic initiation factor 2 (eIF2 γ) to reduce the growth of intraerythrocytic development of the malaria parasite <i>Plasmodium falciparum</i> . <i>Scientific Reports</i> , 2016, 6, 22093.	3.3	12
30	Layer-by-Layer assembled growth factor reservoirs for steering the response of 3T3-cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 79-86.	5.0	20
31	Combination of Bioactive Polymeric Membranes and Stem Cells for Periodontal Regeneration: In Vitro and In Vivo Analyses. <i>PLoS ONE</i> , 2016, 11, e0152412.	2.5	19
32	Poly(anhydride-ester) and Poly(N-vinyl-2-pyrrolidone) Blends: Salicylic Acid-Releasing Blends with Hydrogel-Like Properties that Reduce Inflammation. <i>Macromolecular Bioscience</i> , 2015, 15, 342-350.	4.1	20
33	Encapsulation of metalloporphyrins improves their capacity to block the viability of the human malaria parasite <i>Plasmodium falciparum</i> . <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 351-358.	3.3	17
34	REPLY to <i>Nanomedicine: NMB</i> , 2015; 11:1035. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1036-1037.	3.3	0
35	Hybrid Membranes of PLLA/Collagen for Bone Tissue Engineering: A Comparative Study of Scaffold Production Techniques for Optimal Mechanical Properties and Osteoinduction Ability. <i>Materials</i> , 2015, 8, 408-423.	2.9	22
36	Biocompatible xanthan/polypyrrole scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2015, 52, 121-128.	7.3	56

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37	Cytotoxicity of PVPAC-treated bovine pericardium: A potential replacement for glutaraldehyde in biological heart valves. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 574-582.	3.4	9
38	Synthesis and characterization of xanthan-hydroxyapatite nanocomposites for cellular uptake. <i>Materials Science and Engineering C</i> , 2014, 37, 195-203.	7.3	53
39	Biosynthesis of N,N-dimethyltryptamine (DMT) in a melanoma cell line and its metabolization by peroxidases. <i>Biochemical Pharmacology</i> , 2014, 88, 393-401.	4.4	14
40	Bioactive-Based Poly(anhydride-esters) and Blends for Controlled Drug Delivery. <i>ACS Symposium Series</i> , 2013, , 27-37.	0.5	1
41	Synthesis and swelling behavior of xanthan-based hydrogels. <i>Carbohydrate Polymers</i> , 2013, 92, 1091-1099.	10.2	247
42	PVP Hydrogel Membranes Produced by Electrospinning for Protein Release Devices. <i>Soft Materials</i> , 2013, 11, 61-68.	1.7	19
43	Hybrid composites of xanthan and magnetic nanoparticles for cellular uptake. <i>Chemical Communications</i> , 2013, 49, 9911.	4.1	23
44	Enzymatic syntheses of unsaturated polyesters based on isosorbide and isomannide. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3881-3891.	2.3	40
45	Química sem fronteiras. <i>Química Nova</i> , 2013, 36, 1481-1481.	0.3	0
46	Hybrid Scaffolds Built From PET and Collagen as a Model For Vascular Graft Architecture. <i>Macromolecular Bioscience</i> , 2012, 12, 1660-1670.	4.1	26
47	Charge generation, charge transport, and residual charge in the electrospinning of polymers: A review of issues and complications. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	141
48	Drug Release from Electrospun Poly(Lactic Acid) Membranes and Their Cell Viability in Vitro Test. <i>Procedia Engineering</i> , 2012, 44, 866-868.	1.2	2
49	Oxidation of lysergic acid diethylamide (LSD) by peroxidases: a new metabolic pathway. <i>Forensic Toxicology</i> , 2012, 30, 87-97.	2.4	9
50	Characterization studies of 1-(4-cyano-2-oxo-1,2-dihydro-1-pyridyl)-3-(4-cyano-1,2-dihydro-1-pyridyl)propane formed from the reaction of hydroxide Ion with 1,3-Bis-(4-cyano pyridinium)propane. <i>Journal of the Brazilian Chemical Society</i> , 2011, . .	0.6	0
51	Hydrogels from Chitosan and a Novel Copolymer Poly(N-vinyl-2-Pyrrolidone-Co-Acrolein). <i>Materials Sciences and Applications</i> , 2011, 02, 1058-1069.	0.4	5
52	Crosslinking of poly(N-vinyl-2-pyrrolidone) in the coating of cotton yarn. <i>Polymer Engineering and Science</i> , 2011, 51, 445-453.	3.1	11
53	Coating of cotton yarn with poly(vinyl alcohol) and poly(N-vinyl-2-pyrrolidone) crosslinked via ultraviolet radiation. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2560-2567.	2.6	5
54	Block Copolymers Containing (R)-3-Hydroxybutyrate and Isosorbide Succinate or (S)-Lactic Acid Mers. <i>Journal of Polymers and the Environment</i> , 2010, 18, 33-44.	5.0	6

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55	Preparation of PVP hydrogel nanoparticles using lecithin vesicles. <i>Quimica Nova</i> , 2010, 33, 2083-2087.	0.3	3
56	In vivo uptake of a haem analogue Zn protoporphyrin IX by the human malaria parasite <i>P. falciparum</i> -infected red blood cells. <i>Cell Biology International</i> , 2010, 34, 859-865.	3.0	13
57	Isosorbide Polyesters from Enzymatic Catalysis. <i>Macromolecules</i> , 2010, 43, 10315-10319.	4.8	90
58	33ª Reunião Anual da Sociedade Brasileira de Química. <i>Quimica Nova</i> , 2010, 33, 775-775.	0.3	1
59	Balanço da gestão 2008-2010. <i>Quimica Nova</i> , 2010, 33, 1229-1230.	0.3	0
60	Synthesis and structural characterization of block and random low molecular weight copolymers composed of L-lactic acid and isosorbide succinate moieties. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 1414-1424.	0.6	10
61	PVP superabsorbent nanogels. <i>Colloid and Polymer Science</i> , 2009, 287, 705-713.	2.1	16
62	Crystalline particles from self-assembled divinyl oligomers. <i>Materials Science and Engineering C</i> , 2009, 29, 564-570.	7.3	2
63	Enhanced fibroblast adhesion and proliferation on electrospun fibers obtained from poly(isosorbide) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 3	3.8	22
64	Editorial: Brasil, uma potência emergida. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, III-IV.	0.6	0
65	32ª Reunião Anual da SBQ. <i>Quimica Nova</i> , 2009, 32, 831-831.	0.3	0
66	Evidence for Molecular Orientation and Residual Charge in the Electrospinning of Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	4.8	80
67	Studies on PVP hydrogel-supported luminol chemiluminescence: 1. Kinetic and mechanistic aspects using multivariate factorial analysis. <i>Luminescence</i> , 2007, 22, 113-125.	2.9	10
68	Studies on PVP hydrogel-supported luminol chemiluminescence: 2. Luminometer calibration and potential analytical applications. <i>Luminescence</i> , 2007, 22, 126-133.	2.9	8
69	N1-acetyl-N2-formyl-5-methoxykynuramine modulates the cell cycle of malaria parasites. <i>Journal of Pineal Research</i> , 2007, 42, 261-266.	7.4	44
70	The effect of pH on horseradish peroxidase-catalyzed oxidation of melatonin: production of N1-acetyl-N2-formyl-5-methoxykynuramine versus radical-mediated degradation. <i>Journal of Pineal Research</i> , 2007, 42, 291-296.	7.4	25
71	Poly(N-vinyl-2-pyrrolidone) hydrogels produced by Fenton reaction. <i>Polymer</i> , 2006, 47, 8414-8419.	3.8	48
72	Synthesis of a hydrophilic and non-ionic anthracene derivative, the N,N-ε ² -di-(2,3-dihydroxypropyl)-9,10-anthracenedipropanamide as a chemical trap for singlet molecular oxygen detection in biological systems. <i>Tetrahedron</i> , 2006, 62, 10762-10770.	1.9	34

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73	Fluorescence polarization and rheological studies of the poly(N-vinyl-2-pyrrolidone) hydrogels produced by UV radiation. <i>Polymer</i> , 2006, 47, 2629-2633.	3.8	25
74	High concentrations of the melatonin metabolite, N1-acetyl-N 2-formyl-5-methoxykynuramine, in cerebrospinal fluid of patients with meningitis: a possible immunomodulatory mechanism. <i>Journal of Pineal Research</i> , 2005, 39, 302-306.	7.4	51
75	Superoxide-dependent Oxidation of Melatonin by Myeloperoxidase. <i>Journal of Biological Chemistry</i> , 2005, 280, 38160-38169.	3.4	67
76	Oxidation of melatonin and its catabolites, N ¹ -acetyl-N ² -formyl-5-methoxykynuramine and N ¹ -acetyl-5-methoxykynuramine, by activated leukocytes. <i>Journal of Pineal Research</i> , 2004, 37, 171-175.	7.4	97
77	Surface characterization of photodegraded poly(ethylene terephthalate). The effect of ultraviolet absorbers. <i>Polymer</i> , 2004, 45, 2303-2308.	3.8	124
78	Poly(N-vinyl-2-pyrrolidone) hydrogel production by ultraviolet radiation: new methodologies to accelerate crosslinking. <i>Polymer</i> , 2004, 45, 4705-4709.	3.8	66
79	Photolysis of \hat{I} -xylyl chlorides: An efficient deep-UV photoinitiating system for radical and cationic polymerization. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 700-705.	2.9	1
80	Production of lifetime controlled plastics: copolymers of styrene and substituted butadienes. <i>Polymer Degradation and Stability</i> , 2003, 82, 207-210.	5.8	4
81	Direct UV photocrosslinking of poly(N-vinyl-2-pyrrolidone) (PVP) to produce hydrogels. <i>Polymer</i> , 2003, 44, 6217-6222.	3.8	119
82	Interferon-gamma independent oxidation of melatonin by macrophages. <i>Journal of Pineal Research</i> , 2003, 34, 69-74.	7.4	21
83	Assessment of monocytic component in acute myelomonocytic and monocytic/monoblastic leukemias by a chemiluminescent assay. <i>The Hematology Journal</i> , 2003, 4, 26-30.	1.4	4
84	The Oxidation of Indole Derivatives Catalyzed by Horseradish Peroxidase Is Highly Chemiluminescent. <i>Archives of Biochemistry and Biophysics</i> , 2001, 387, 173-179.	3.0	35
85	Oxidation of Melatonin and Tryptophan by an HRP Cycle Involving Compound III. <i>Biochemical and Biophysical Research Communications</i> , 2001, 287, 130-134.	2.1	50
86	Laser-flash photolysis of \hat{I} -brominated o-xylenes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 140, 1-5.	3.9	5
87	Selective activity of butyrylcholinesterase in serum by a chemiluminescent assay. <i>Luminescence</i> , 2001, 16, 299-304.	2.9	4
88	Does the Photochemical Conversion of Colchicine into Lumicolchicines Involve Triplet Transients? A Solvent Dependence Study. <i>Photochemistry and Photobiology</i> , 2001, 73, 213.	2.5	9
89	Development of reinforced hydrogels " I. Radiation induced graft copolymerization of methylmethacrylate on non-woven polypropylene fabric. <i>Radiation Physics and Chemistry</i> , 2000, 57, 451-454.	2.8	23
90	Zinc tetra-ruthenated porphyrin binding and photoinduced oxidation of calf-thymus DNA. <i>Journal of Inorganic Biochemistry</i> , 2000, 78, 269-273.	3.5	42

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91	Studies on the Intramolecular Electron Transfer Catalyzed Thermolysis of 1,2-Dioxetanes. <i>Tetrahedron</i> , 2000, 56, 5317-5327.	1.9	41
92	Peridinin as the Major Biological Carotenoid Quencher of Singlet Oxygen in Marine Algae <i>Gonyaulax polyedra</i> . <i>Biochemical and Biophysical Research Communications</i> , 2000, 268, 496-500.	2.1	50
93	Myeloperoxidase-Catalyzed Oxidation of Melatonin by Activated Neutrophils. <i>Biochemical and Biophysical Research Communications</i> , 2000, 279, 657-662.	2.1	57
94	Fluoride-triggered decomposition of m-sililoxyphenyl -substituted dioxetanes by an intramolecular electron transfer (CIEEL) mechanism. <i>Tetrahedron Letters</i> , 1999, 40, 2443-2446.	1.4	44
95	Facile chemiluminescent method for alkaline phosphatase determination. <i>Analytica Chimica Acta</i> , 1999, 402, 99-104.	5.4	31
96	Chemiluminescent determination of esterases in monocytes. , 1998, 13, 195-200.		6
97	Spectroelectrochemical and photophysical properties of a (3,4-pyridyl) porphyrine supermolecule containing four [Ru(bipy)2Cl]+ groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 118, 11-17.	3.9	21
98	Real-Time Determination of Ultraviolet Degradation Kinetics of Polymers in Solution. <i>International Journal of Polymer Analysis and Characterization</i> , 1997, 3, 231-247.	1.9	7
99	Lipid Peroxidation-Dependent Chemiluminescence from the Cyclization of Alkylperoxyl Radicals to Dioxetane Radical Intermediates. <i>Chemical Research in Toxicology</i> , 1997, 10, 1090-1096.	3.3	45
100	Supramolecular Cationic Tetra-ruthenated Porphyrin Induces Single-Strand Breaks and 8-hydroxy-2'-deoxyguanosine Formation in DNA in the Presence of Light. <i>Photochemistry and Photobiology</i> , 1996, 63, 272-277.	2.5	69
101	Chemiluminescence Triggered by Hydrolase Activity in a Horseradish Peroxidase/H2O2-Coupled Assay. <i>Photochemistry and Photobiology</i> , 1996, 63, 742-745.	2.5	3
102	Esterase Coupled with the H2O2/Horseradish Peroxidase System Triggers Chemiluminescence from 2-Methyl-1-propenylbenzoate: A Potential Analytical Tool for Esterase Analysis. <i>Analytical Biochemistry</i> , 1996, 234, 215-220.	2.4	7
103	The oxidation of cyclic sulfides by tetramethyldioxetane and the isobutanol/O2/peroxidase system: Oxygen transfer versus electron transfer. <i>Free Radical Biology and Medicine</i> , 1995, 18, 731-738.	2.9	0
104	Photolysis of a series of 1-brominated ortho-xylenes in apolar solvents. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 1857-1862.	0.9	6
105	Photophysics of enediones. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 1863.	0.9	4
106	Quenching of triplet acetone by mesitylene and durene: exciplex formation or energy transfer?. <i>The Journal of Physical Chemistry</i> , 1992, 96, 8967-8973.	2.9	6
107	Are dioxetanes chemiluminescent intermediates in lipoperoxidation?. <i>Free Radical Biology and Medicine</i> , 1992, 12, 471-478.	2.9	29
108	Electron transfer and chemiluminescence. Two inefficient systems: 1,4-dimethoxy-9,10-diphenylanthracene peroxide and diphenoyl peroxide. <i>Journal of the American Chemical Society</i> , 1989, 111, 2633-2639.	13.7	137

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109	Energy transfer from triplet acetophenones to 9,10-dibromoanthracene (S1): role of its Tn state. Journal of the American Chemical Society, 1987, 109, 7458-7462.	13.7	20
110	TWO WATER-SOLUBLE FLUORESCENCE PROBES FOR CHEMIEXCITATION STUDIES: SODIUM 9,10-DIBROMO- AND 9, 10-DIPHENYLANTHRACENE-2-SULFONATE. SYNTHESIS, PROPERTIES AND APPLICATION TO TRIPLET ACETONE AND TETRAMETHYLDIOXETANE. Photochemistry and Photobiology, 1987, 45, 273-281.	13.7	36
111	Diastereoselective ene reaction in the photooxygenation of the silyl cyanohydrins of .alpha.,beta.-unsaturated aldehydes: necessity for a common symmetrical intermediate of the perepoxide type. Journal of Organic Chemistry, 1986, 51, 5494-5496.	3.2	25
112	ENERGY TRANSFER FROM CHEMIEXCITED ACETONE TO SUBSTANCES THAT DISPLAY ANOMALOUS FLUORESCENCE. Photochemistry and Photobiology, 1985, 42, 587-589.	2.5	4
113	QUENCHING OF CHEMIEXCITED TRIPLET ACETONE BY BIOLOGICALLY IMPORTANT COMPOUNDS IN AQUEOUS MEDIUM. Photochemistry and Photobiology, 1984, 39, 823-830.	2.5	19
114	QUENCHING OF CHEMICALLY and ENZYMICALLY-GENERATED TRIPLET ACETONE BY TYROSINE and 3,5-DIHALOGENODERIVATIVES. Photochemistry and Photobiology, 1983, 37, 93-97.	2.5	10
115	Thermolysis of 3-methyl-3-alkyl-1,2-dioxetanes: steric effects on the activation parameters. Journal of Organic Chemistry, 1983, 48, 3713-3716.	3.2	7