

Francielle Sato

List of Publications by Year in descending order

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75
papers

1,591
citations

430442

18
h-index

315357

38
g-index

77
all docs

77
docs citations

77
times ranked

2570
citing authors

#	ARTICLE	IF	CITATIONS
1	Curcumin- β -cyclodextrin inclusion complex: Stability, solubility, characterisation by FT-IR, FT-Raman, X-ray diffraction and photoacoustic spectroscopy, and food application. Food Chemistry, 2014, 153, 361-370.	4.2	401
2	Optical band-gap determination of nanostructured WO ₃ film. Applied Physics Letters, 2010, 96, .	1.5	281
3	Hydrogen Peroxide Diffusion Dynamics in Dental Tissues. Journal of Dental Research, 2013, 92, 661-665.	2.5	63
4	Propolis Extract for Onychomycosis Topical Treatment: From Bench to Clinic. Frontiers in Microbiology, 2018, 9, 779.	1.5	57
5	Time-resolved thermal mirror method: A theoretical study. Journal of Applied Physics, 2008, 104, .	1.1	47
6	Nanoscale surface displacement detection in high absorbing solids by time-resolved thermal mirror. Applied Physics Letters, 2008, 92, .	1.5	37
7	Biomedical Platform Development of a Chlorophyll-Based Extract for Topical Photodynamic Therapy: Mechanical and Spectroscopic Properties. Langmuir, 2018, 34, 8230-8244.	1.6	36
8	Use of FT-IR, FT-Raman and thermal analysis to evaluate the gel formation of curdlan produced by Agrobacterium sp. IFO 13140 and determination of its rheological properties with food applicability. Food Chemistry, 2017, 232, 369-378.	4.2	33
9	Study of the chemical interaction between a high-viscosity glass ionomer cement and dentin. Journal of Applied Oral Science, 2018, 26, e20170384.	0.7	32
10	PEG-coated vesicles from Pluronic/lipid mixtures for the carrying of photoactive erythrosine derivatives. Colloids and Surfaces B: Biointerfaces, 2019, 175, 530-544.	2.5	28
11	Chemical and physical characterization of Konjac glucomannan-based powders by FTIR and ¹³ C MAS NMR. Powder Technology, 2020, 361, 610-616.	2.1	25
12	Challenges in luting fibre posts: Adhesion to the post and to the dentine. Dental Materials, 2018, 34, 1054-1062.	1.6	24
13	Thermoresponsive Hydrogel-Loading Aluminum Chloride Phthalocyanine as a Drug Release Platform for Topical Administration in Photodynamic Therapy. Langmuir, 2021, 37, 3202-3213.	1.6	23
14	<i>Fusarium oxysporum</i> is an onychomycosis etiopathogenic agent. Future Microbiology, 2018, 13, 1745-1756.	1.0	22
15	Bioactivity and structural properties of nanostructured bulk composites containing Nb ₂ O ₅ and natural hydroxyapatite. Journal of Applied Physics, 2013, 113, .	1.1	20
16	Singlet oxygen production by combining erythrosine and halogen light for photodynamic inactivation of <i>Streptococcus mutans</i> . Photodiagnosis and Photodynamic Therapy, 2016, 15, 127-132.	1.3	20
17	Evidence of anti-inflammatory effect and percutaneous penetration of a topically applied fish oil preparation: a photoacoustic spectroscopy study. Journal of Biomedical Optics, 2017, 22, 055003.	1.4	20
18	Waste from brewing (trub) as a source of protein for the food industry. International Journal of Food Science and Technology, 2019, 54, 1247-1255.	1.3	20

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19	Cell wall structure and composition is affected by light quality in tomato seedlings. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 203, 111745.	1.7	20
20	The role of Ag ₂ O on antibacterial and bioactive properties of borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2021, 554, 120611.	1.5	20
21	Insulin complexation with hydroxypropyl-beta-cyclodextrin: Spectroscopic evaluation of molecular inclusion and use of the complex in gel for healing of pressure ulcers. <i>International Journal of Pharmaceutics</i> , 2015, 490, 229-239.	2.6	18
22	Band gap energy determination by photoacoustic spectroscopy under continuous light excitation. <i>Applied Physics Letters</i> , 2006, 89, 231926.	1.5	17
23	Fourier transform infrared photoacoustic spectroscopy study of physicochemical interaction between human dentin and etch-&rinse adhesives in a simulated moist bond technique. <i>Journal of Biomedical Optics</i> , 2012, 17, 065002.	1.4	17
24	Chemical Interaction Analysis of an Adhesive Containing 10-Methacryloyloxydecyl Dihydrogen Phosphate (10-MDP) With the Dentin in Noncarious Cervical Lesions. <i>Operative Dentistry</i> , 2017, 42, 357-366.	0.6	17
25	Formulation of chloroaluminum phthalocyanine incorporated into PS-b-PAA diblock copolymer nanomicelles. <i>Journal of Molecular Liquids</i> , 2018, 271, 949-958.	2.3	17
26	Color Stability Over Time of Three Resin-Based Restorative Materials Stored Dry and in Artificial Saliva. <i>Journal of Esthetic and Restorative Dentistry</i> , 2014, 26, 279-287.	1.8	16
27	Morphological and Structural Changes in Lung Tissue Infected by <i>Paracoccidioides brasiliensis</i> : FTIR Photoacoustic Spectroscopy and Histological Analysis. <i>Photochemistry and Photobiology</i> , 2013, 89, 1170-1175.	1.3	15
28	Hibiscus sabdariffa L. Extract: Characterization (FTIR-ATR), Storage Stability and Food Application. <i>Emirates Journal of Food and Agriculture</i> , 0, , 55.	1.0	14
29	Nystatin complexation with β -cyclodextrin: Spectroscopic evaluation of inclusion by FT-Raman, photoacoustic spectroscopy, and ¹ H NMR. <i>Materials Chemistry and Physics</i> , 2020, 239, 122117.	2.0	13
30	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.	2.0	13
31	Influence of immediate dentin sealing and interim cementation on the adhesion of indirect restorations with dual-polymerizing resin cement. <i>Journal of Prosthetic Dentistry</i> , 2018, 119, 678.e1-678.e8.	1.1	12
32	Hesperidin-Loaded Solid Lipid Nanoparticles: Development and Physicochemical Properties Evaluation. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4747-4757.	0.9	12
33	Evaluation of photosensitizer penetration into sound and decayed dentin: A photoacoustic spectroscopy study. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 21, 108-114.	1.3	10
34	High pressure effect on the short- and intermediate-range structure of depolymerized soda lime silicate glass: Insights from micro-Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2020, 110, 103113.	1.2	10
35	Characterization of a biofilm formed by <i>Fusarium oxysporum</i> on the human nails. <i>International Journal of Dermatology</i> , 2022, 61, 191-198.	0.5	10
36	The phase-resolved photoacoustic method to indicate chemical assignments of paracetamol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 719-723.	2.0	9

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37	Time-resolved fluctuation during the photochemical reaction of a photoreceptor protein: phototropin1LOV2-linker. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6228-6238.	1.3	8
38	Crude extract of <i>Fusarium oxysporum</i> induces apoptosis and structural alterations in the skin of healthy rats. <i>Journal of Biomedical Optics</i> , 2013, 18, 095004.	1.4	7
39	On the use of photothermal techniques to study NiTi phase transitions. <i>Materials Research Express</i> , 2014, 1, 026502.	0.8	7
40	Chemical, Thermal, and Spectroscopic Analysis of Organomineral Fertilizer Residue Recovered from an Oxisol. <i>Soil Science Society of America Journal</i> , 2019, 83, 409-418.	1.2	7
41	Electrospun curcumin/polycaprolactone/copolymer fibers as a new therapy for wound healing. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48415.	1.3	7
42	Effects of Bioactive Agents on Dentin Mineralization Kinetics After Dentin Bleaching. <i>Operative Dentistry</i> , 2020, 45, 286-296.	0.6	7
43	Correlation between Histopathological and FT-Raman Spectroscopy Analysis of the Liver of Swiss Mice Infected with <i>Paracoccidioides brasiliensis</i> . <i>PLoS ONE</i> , 2014, 9, e106256.	1.1	6
44	Comparative studies on chemical stability, antioxidant and antimicrobial activity from hot and cold hibiscus (<i>Hibiscus sabdariffa</i> L.) calyces tea infusions. <i>Journal of Food Measurement and Characterization</i> , 2021, 15, 3531-3538.	1.6	6
45	Bioperformance Studies of Biphasic Calcium Phosphate Scaffolds Extracted from Fish Bones Impregnated with Free Curcumin and Complexed with β -Cyclodextrin in Bone Regeneration. <i>Biomolecules</i> , 2022, 12, 383.	1.8	6
46	Photoacoustic and photothermal and the photovoltaic efficiency of solar cells: A tutorial. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	6
47	Brewing by-product valorisation: trub debittered for nutritional and quality improvement of pasta. <i>International Journal of Food Sciences and Nutrition</i> , 2022, 73, 915-926.	1.3	6
48	Are metabolites of <i>Fusarium oxysporum</i> responsible for fungal skin invasion? A morphological and Raman spectroscopy monitoring. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 873-878.	1.2	5
49	Combination of Histopathology and FT-Raman Spectroscopy for the Study of Experimental <i>Paracoccidioidomycosis</i> in the Spleen. <i>Photochemistry and Photobiology</i> , 2018, 94, 88-94.	1.3	5
50	Fish oil preparation inhibits leukocyte recruitment and bands that characterize inflamed tissue in a model of phenol-induced skin inflammation: percutaneous penetration of a topically applied preparation demonstrated by photoacoustic spectroscopy. <i>Natural Product Research</i> , 2020, 34, 2341-2345.	1.0	5
51	Translucency parameter of conventional restorative glass-ionomer cements. <i>Journal of Esthetic and Restorative Dentistry</i> , 2021, 33, 935-942.	1.8	5
52	Immune response and Raman scattering assessment in rats skin after contact with <i>Fusarium oxysporum</i> metabolites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 234, 118246.	2.0	5
53	Enhanced conditions for anthocyanin extraction from blackberry pomace under ultrasound irradiation. <i>Journal of Food Process Engineering</i> , 2023, 46, .	1.5	5
54	Dynamics of the natural genesis of β -TCP/HAp phases in postnatal fishbones towards gold standard biocomposites for bone regeneration. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 279, 121407.	2.0	5

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55	Mechanical and Chemical Changes in the Adhesive-Dentin Interface after Remineralization. Journal of Adhesive Dentistry, 2020, 22, 297-309.	0.3	4
56	Performance of asymmetric spinel hollow fiber membranes for hibiscus (<i>Hibiscus sabdariffa</i> L.) extract clarification: Flux modeling and extract stability. Journal of Food Processing and Preservation, 2020, 44, e14948.	0.9	3
57	Cloves (<i>Syzygium aromaticum</i>) fluid gel on healing of pododermatitis in rabbits. Veterinary Research Communications, 2021, 45, 293-304.	0.6	3
58	Aluminum phthalocyanine hydroxide-loaded thermoresponsive biomedical hydrogel: A design for targeted photosensitizing drug delivery. Journal of Molecular Liquids, 2021, 341, 117421.	2.3	3
59	Analytical method to estimate resin cement diffusion into dentin. Journal of Biomedical Optics, 2016, 21, 055003.	1.4	3
60	In vitro evaluation of composite resin fluorescence after natural aging. Journal of Clinical and Experimental Dentistry, 2020, 12, e461-e467.	0.5	3
61	Effect on Bioactive Compounds and Antioxidant Activity in the Brewing Process for Beers Using Rubim and Mastruz as Hop Replacements. Journal of the American Society of Brewing Chemists, 2023, 81, 265-275.	0.8	3
62	Polyvinylpyrrolidone Quantification in Paracetamol Using Phase-Resolved Photoacoustic Method. Spectroscopy Letters, 2015, 48, 427-430.	0.5	2
63	Study of keratin hair of domestic cat under methionine and cystine experimental diet using FT-Raman spectroscopy. Vibrational Spectroscopy, 2019, 100, 1-5.	1.2	2
64	Evaluation of the influence of light-curing units on the degree of conversion in depth of a bulk-fill resin. Journal of Clinical and Experimental Dentistry, 2020, 12, e1117-e1123.	0.5	2
65	Phytochemical and technological characterization of canistel dehydrated pulp: a new potential food ingredient. Research, Society and Development, 2021, 10, e16410111577.	0.0	1
66	Human Nails Permeation of an Antifungal Candidate Hydroalcoholic Extract from the Plant <i>Sapindus saponaria</i> L. Rich in Saponins. Molecules, 2021, 26, 236.	1.7	1
67	In Vitro Evaluation of the Stabilization Time of Chemical Bonds During Setting Reaction and Microhardness of Preheated Glass-Ionomer Cements. Operative Dentistry, 2021, 46, 208-218.	0.6	1
68	Opalescence and color stability of composite resins: an in vitro longitudinal study. Clinical Oral Investigations, 2022, 26, 2635-2643.	1.4	1
69	2C1436 Photo-reaction of the LOV domain of phototropin under high pressure(Protein: Function 1,The) Tj ETQq1 1,0,784314 rgBT /Overlock 10	0.0	0
70	2PT169 Transient fluctuation of phototropin LOV2 domain(The 50th Annual Meeting of the Biophysical) Tj ETQq0 0,0 rgBT /Overlock 10	0.0	0
71	Ferroc behavior induced by oxygen vacancies in Mn-doped ZnO compounds. Integrated Ferroelectrics, 2016, 174, 63-70.	0.3	0
72	Maintaining the same ratio between standardized ileal digestible methionine and cysteine do not affect its requirements for starting pigs. Journal of Agricultural Science, 0, , 1-9.	0.6	0

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73	Use of Photoacoustic Spectroscopy to Evaluate Photosensitizer Penetration into Dentin. , 2018, , .		0
74	Use of Photoacoustic and Raman Methods for Physicochemical Analysis and Clinical Diagnosis in Restorative Dentistry. , 2018, , .		0
75	Technique for Darkening of Extracted Teeth Simulating Pulpal Necrosis Discoloration. Clinical, Cosmetic and Investigational Dentistry, 2022, Volume 14, 103-112.	0.7	0