

# Reinaldo Francisco Tefilo

## List of Publications by Year in Descending Order

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**Version:** 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61

papers

1,838

citations

22

h-index

42

g-index

65

ext. papers

2,106

ext. citations

4.6

avg, IF

4.9

L-index

#	Paper	IF	Citations
61	Dehydration as a Tool to improve predictability of sugarcane juice carbohydrates using near-infrared spectroscopy based PLS models. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2022</b> , 220, 104459	3.8	1
60	Classification of sugarcane genotypes susceptible and resistant to the initial attack of sugarcane borer <i>Diatraea saccharalis</i> using epicuticular wax composition.. <i>Phytochemistry</i> , <b>2022</b> , 113175	4	0
59	In-situ electrochemical and operando Raman techniques to investigate the effect of porosity in different carbon electrodes in organic electrolyte supercapacitors. <i>Journal of Energy Storage</i> , <b>2022</b> , 50, 104219	7.8	1
58	Evaluation of weight loss and high heating value from biomasses during fungal degradation by NIR spectroscopy. <i>Fuel</i> , <b>2022</b> , 320, 123841	7.1	2
57	Production of Levulinic Acid from Coconut Residues ( <i>Cocos nucifera</i> ) Using Different Approaches. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 6875	3.2	6
56	Predicting oil content in ripe Macaw fruits ( <i>Acrocomia aculeata</i> ) from unripe ones by near infrared spectroscopy and PLS regression. <i>Food Chemistry</i> , <b>2021</b> , 351, 129314	8.5	5
55	Improvements in the Extractive and Carbohydrate Analysis of Sugarcane Bagasse. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 3727-3740	3.2	1
54	Reconsidering the Need for Empirical Alignment and Wavelength Calibration Steps in the Building of a Dispersive NIR Spectrometer with an Application for Ethanol Quantification Using a Polymer Filament 3D Printer. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 11388-11397	7.8	0
53	Phosphate Enrichment of Niobium-Based Catalytic Surfaces in Relation to Reactions of Carbohydrate Biomass Conversion: The Case Studies of Inulin Hydrolysis and Fructose Dehydration. <i>Catalysts</i> , <b>2021</b> , 11, 1077	4	0
52	One-step process to produce furfural from sugarcane bagasse over niobium-based solid acid catalysts in a water medium. <i>Fuel Processing Technology</i> , <b>2020</b> , 207, 106482	7.2	19
51	Optimization of acid-extraction of pectic fraction from grape ( <i>Vitis vinifera</i> cv. Chardonnay) pomace, a Winery Waste. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 161, 204-213	7.9	15
50	Nanostructured conjugates from tara gum and $\beta$ -lactalbumin. Part 1. Structural characterization. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 153, 995-1004	7.9	4
49	Portable near-infrared spectroscopy for rapid authentication of adulterated paprika powder. <i>Journal of Food Composition and Analysis</i> , <b>2020</b> , 87, 103403	4.1	35
48	Study of chemical compound spatial distribution in biodegradable active films using NIR hyperspectral imaging and multivariate curve resolution. <i>Journal of Chemometrics</i> , <b>2020</b> , 34, e3193	1.6	1
47	Selection of sugarcane clones via multivariate models using near-infrared (NIR) spectroscopy data. <i>Australian Journal of Crop Science</i> , <b>2020</b> , 889-896	0.5	1
46	Comprehensive new approaches for variable selection using ordered predictors selection. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1075, 57-70	6.6	17
45	Development and optimization of pH-responsive PLGA-chitosan nanoparticles for triggered release of antimicrobials. <i>Food Chemistry</i> , <b>2019</b> , 295, 671-679	8.5	27

44	Early prediction of sugarcane genotypes susceptible and resistant to <i>Diatraea saccharalis</i> using spectroscopies and classification techniques. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 218, 69-75	4.4	5
43	Determination of chemical soil properties using diffuse reflectance and ion-exchange resins. <i>Precision Agriculture</i> , <b>2019</b> , 20, 541-561	5.6	4
42	Optimization of <i>Eucalyptus benthamii</i> progeny test based on Near-Infrared Spectroscopy approach and volumetric production. <i>Industrial Crops and Products</i> , <b>2019</b> , 141, 111786	5.9	1
41	New strategy for determination of anthocyanins, polyphenols and antioxidant capacity of <i>Brassica oleracea</i> liquid extract using infrared spectroscopies and multivariate regression. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 194, 172-180	4.4	14
40	Genetic parameters and selection of macaw palm ( <i>Acrocomia aculeata</i> ) accessions: an alternative crop for biofuels. <i>Crop Breeding and Applied Biotechnology</i> , <b>2018</b> , 18, 259-266	1.1	8
39	Extraction of pectin from ponkan ( <i>Citrus reticulata</i> Blanco cv. Ponkan) peel: Optimization and structural characterization. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 117, 385-391	7.9	37
38	Temporal decomposition sampling and chemical characterization of eucalyptus harvest residues using NIR spectroscopy and chemometric methods. <i>Talanta</i> , <b>2018</b> , 188, 168-177	6.2	10
37	Selection strategy for indication of crosses between potential sugarcane genotypes aiming at the production of bioenergy. <i>Industrial Crops and Products</i> , <b>2017</b> , 104, 62-67	5.9	6
36	Prediction of Lignin Content in Different Parts of Sugarcane Using Near-Infrared Spectroscopy (NIR), Ordered Predictors Selection (OPS), and Partial Least Squares (PLS). <i>Applied Spectroscopy</i> , <b>2017</b> , 71, 2001-2012	3.1	16
35	Estimation of cellulose crystallinity of sugarcane biomass using near infrared spectroscopy and multivariate analysis methods. <i>Carbohydrate Polymers</i> , <b>2017</b> , 158, 20-28	10.3	35
34	MCR-ALS applied to the quantification of the 5-hydroxymethylfurfural using UV spectra: Study of catalytic process employing experimental design. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2017</b> , 167, 132-138	3.8	4
33	Combined use of essential oils applied to protein base active food packaging: Study in vitro and in a food simulant. <i>European Polymer Journal</i> , <b>2017</b> , 93, 75-86	5.2	34
32	Selection of energy cane clones. <i>Crop Breeding and Applied Biotechnology</i> , <b>2017</b> , 17, 327-333	1.1	3
31	Direct conversion of glucose to 5-hydroxymethylfurfural using a mixture of niobic acid and niobium phosphate as a solid acid catalyst. <i>Fuel</i> , <b>2017</b> , 210, 67-74	7.1	47
30	Formation and characterization of supramolecular structures of $\beta$ -lactoglobulin and lactoferrin proteins. <i>Food Research International</i> , <b>2017</b> , 100, 674-681	7	11
29	Evaluation of potential interfering agents on in vitro methods for the determination of the antioxidant capacity in anthocyanin extracts. <i>International Journal of Food Science and Technology</i> , <b>2017</b> , 52, 511-518	3.8	10
28	Chemical and bioenergetic characterization of sorghum agronomic groups1. <i>Pesquisa Agropecuaria Tropical</i> , <b>2017</b> , 47, 424-431	1.2	7
27	Optimal antimicrobial formulation and physical/mechanical properties of edible films based on alginate and pectin for food preservation. <i>Food Packaging and Shelf Life</i> , <b>2014</b> , 2, 38-49	8.2	48

26	Diamond cylindrical anodes for electrochemical treatment of persistent compounds in aqueous solution. <i>Journal of Applied Electrochemistry</i> , <b>2013</b> , 43, 323-330	2.6	17
25	Influence of pH and Matrix Components in the Chromatographic Response of Pesticides. <i>Chromatographia</i> , <b>2013</b> , 76, 67-73	2.1	11
24	Optimized dispersion of ZnO nanoparticles and antimicrobial activity against foodborne pathogens and spoilage microorganisms. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	16
23	Physical-mechanical and antimicrobial properties of nanocomposite films with pediocin and ZnO nanoparticles. <i>Carbohydrate Polymers</i> , <b>2013</b> , 94, 199-208	10.3	135
22	Parameter optimization for spray-drying microencapsulation of jaboticaba ( <i>Myrciaria jaboticaba</i> ) peel extracts using simultaneous analysis of responses. <i>Journal of Food Engineering</i> , <b>2013</b> , 117, 538-544	6	154
21	Exploratory and discriminative studies of commercial processed Brazilian coffees with different degrees of roasting and decaffeinated. <i>Brazilian Journal of Food Technology</i> , <b>2013</b> , 16, 198-206	1.5	6
20	Evaluation of matrix effect on the GC response of eleven pesticides by PCA. <i>Food Chemistry</i> , <b>2012</b> , 135, 179-185	8.5	49
19	Extraction and characterization of pectin from cacao pod husks ( <i>Theobroma cacao</i> L.) with citric acid. <i>LWT - Food Science and Technology</i> , <b>2012</b> , 49, 108-116	5.4	98
18	Correlation of quantitative sensorial descriptors and chromatographic signals of beer using multivariate calibration strategies. <i>Food Chemistry</i> , <b>2012</b> , 134, 1673-81	8.5	21
17	Large-Area Cylindrical Diamond Electrodes. <i>ECS Journal of Solid State Science and Technology</i> , <b>2012</b> , 1, N67-N72	2	6
16	Synthesis and Characterization of Magnetic Nanocrystalline Diamond Films. <i>Ferroelectrics</i> , <b>2012</b> , 436, 96-100	0.6	7
15	Electro-Deposition of Carbon Structures at Mid Voltage and Room Temperature Using Ethanol/Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, D159-D161	3.9	12
14	Concentration of phenolic compounds in aqueous mate ( <i>Ilex paraguariensis</i> A. St. Hil) extract through nanofiltration. <i>LWT - Food Science and Technology</i> , <b>2011</b> , 44, 2211-2216	5.4	48
13	Optimization of nitric acid-mediated extraction of pectin from cacao pod husks ( <i>Theobroma cacao</i> L.) using response surface methodology. <i>Carbohydrate Polymers</i> , <b>2011</b> , 84, 1230-1236	10.3	78
12	Computational performance and cross-validation error precision of five PLS algorithms using designed and real data sets. <i>Journal of Chemometrics</i> , <b>2010</b> , 24, n/a-n/a	1.6	4
11	Simultaneous optimization of the microextraction of coffee volatiles using response surface methodology and principal component analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2010</b> , 102, 45-52	3.8	57
10	Sorting variables by using informative vectors as a strategy for feature selection in multivariate regression. <i>Journal of Chemometrics</i> , <b>2009</b> , 23, 32-48	1.6	165
9	Optimisation of pectin acid extraction from passion fruit peel ( <i>Passiflora edulis flavicarpa</i> ) using response surface methodology. <i>International Journal of Food Science and Technology</i> , <b>2009</b> , 44, 476-483	3.8	84

8	Influence of different content of cheese whey and oligofructose on the properties of fermented lactic beverages: Study using response surface methodology. <i>LWT - Food Science and Technology</i> , <b>2009</b> , 42, 993-997	5.4	34
7	QSPR Study of Passivation by Phenolic Compounds at Platinum and Boron-Doped Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, D640	3.9	20
6	Optimization of extraction of high-ester pectin from passion fruit peel ( <i>Passiflora edulis flavicarpa</i> ) with citric acid by using response surface methodology. <i>Bioresource Technology</i> , <b>2008</b> , 99, 5561-6	11	149
5	A study of physicochemical and biopharmaceutical properties of amoxicillin tablets using full factorial design and PCA biplot. <i>Analytica Chimica Acta</i> , <b>2007</b> , 595, 216-20	6.6	10
4	Classification of cassava starch films by physicochemical properties and water vapor permeability quantification by FTIR and PLS. <i>Journal of Food Science</i> , <b>2007</b> , 72, E184-9	3.4	27
3	Improvement of the electrochemical properties of $\beta$ s-grown boron-doped polycrystalline diamond electrodes deposited on tungsten wires using ethanol. <i>Journal of Solid State Electrochemistry</i> , <b>2007</b> , 11, 1449-1457	2.6	22
2	Quimiometria II: planilhas eletrônicas para cálculos de planejamentos experimentais, um tutorial. <i>Quimica Nova</i> , <b>2006</b> , 29, 338-350	1.6	136
1	Experimental design employed to square wave voltammetry response optimization for the glyphosate determination. <i>Journal of the Brazilian Chemical Society</i> , <b>2004</b> , 15, 865-871	1.5	34