Camilo de Lelis Medeiros de Morais

List of Publications by Year in descending order

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104 papers 1,939

304743 22 h-index 330143 37 g-index

105 all docs 105
docs citations

105 times ranked 1935 citing authors

#	Article	IF	CITATIONS
1	Direct identification and visualisation of real-world contaminating microplastics using Raman spectral mapping with multivariate curve resolution-alternating least squares. Journal of Hazardous Materials, 2022, 422, 126892.	12.4	28
2	The role of T-cells in neurobehavioural development: Insights from the immunodeficient nude mice. Behavioural Brain Research, 2022, 418, 113629.	2.2	2
3	Raman hyperspectral imaging coupled to three-dimensional discriminant analysis: classification of meningiomas brain tumour grades. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 121018.	3.9	5
4	Revising Fourier-transform infrared (FT-IR) and Raman spectroscopy towards brain cancer detection. Photodiagnosis and Photodynamic Therapy, 2022, 38, 102785.	2.6	24
5	Machine Learning Approach Using a Handheld Near-Infrared (NIR) Device to Predict the Effect of Storage Conditions on Tomato Biomarkers. ACS Food Science & Technology, 2022, 2, 187-194.	2.7	3
6	Age-Related and Gender-Related Increases in Colorectal Cancer Mortality Rates in Brazil Between 1979 and 2015: Projections for Continuing Rises in Disease. Journal of Gastrointestinal Cancer, 2021, 52, 280-288.	1.3	5
7	ATR-FTIR spectroscopy for virus identification: A powerful alternative. Biomedical Spectroscopy and Imaging, 2021, 9, 103-118.	1.2	20
8	A comparative analysis of different biofluids towards ovarian cancer diagnosis using Raman microspectroscopy. Analytical and Bioanalytical Chemistry, 2021, 413, 911-922.	3.7	18
9	A comparative analysis of different biofluids using Raman spectroscopy to determine disease activity in ANCA â€associated vasculitis. Journal of Biophotonics, 2021, 14, e202000426.	2.3	4
10	Spectrochemical determination of effects on rat liver of binary exposure to benzo[a]pyrene and 2,2′,4,4′â€ŧetrabromodiphenyl ether. Journal of Applied Toxicology, 2021, 41, 1816-1825.	2.8	1
11	Distinguishing active from quiescent disease in ANCA-associated vasculitis using attenuated total reflection Fourier-transform infrared spectroscopy. Scientific Reports, 2021, 11, 9981.	3.3	8
12	Detection of ovarian cancer (\hat{A}_{\pm} neo-adjuvant chemotherapy effects) via ATR-FTIR spectroscopy: comparative analysis of blood and urine biofluids in a large patient cohort. Analytical and Bioanalytical Chemistry, 2021, 413, 5095-5107.	3.7	25
13	Near-infrared spectroscopy of blood plasma with chemometrics towards HIV discrimination during pregnancy. Scientific Reports, 2021, 11, 22609.	3.3	4
14	Multivariate classification techniques and mass spectrometry as a tool in the screening of patients with fibromyalgia. Scientific Reports, 2021, 11 , 22625.	3.3	5
15	Regional differences in clonal Japanese knotweed revealed by chemometrics-linked attenuated total reflection Fourier-transform infrared spectroscopy. BMC Plant Biology, 2021, 21, 522.	3.6	6
16	Laparoscopic cholecystectomy for mild acute gallstone pancreatitis-indication itself is a good predictor of (minimal) intraoperative difficulty-a retrospective cohort study. Turkish Journal of Surgery, 2021, 37, 103-108.	0.5	O
17	Clinical applications of spectroscopic techniques in conjunction with multivariate analysis in virus diagnosis. Biomedical Spectroscopy and Imaging, 2021, , 1-27.	1.2	O
18	Attenuated total reflection Fourierâ€transform infrared (<scp>ATR</scp> â€ <scp>FTIR</scp>) spectroscopy to diagnose osteoarthritis in equine serum. Equine Veterinary Journal, 2020, 52, 46-51.	1.7	9

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19	Discrimination of fresh frozen non-tumour and tumour brain tissue using spectrochemical analyses and a classification model. British Journal of Neurosurgery, 2020, 34, 40-45.	0.8	9
20	Estimation and classification of popping expansion capacity in popcorn breeding programs using NIR spectroscopy. Journal of Cereal Science, 2020, 91, 102861.	3.7	7
21	Spectrochemical differentiation of meningioma tumours based on attenuated total reflection Fourier-transform infrared (ATR-FTIR) spectroscopy. Analytical and Bioanalytical Chemistry, 2020, 412, 1077-1086.	3.7	17
22	Gene-environment interactions between GSTs polymorphisms and targeted epigenetic alterations in hepatocellular carcinoma following organochlorine pesticides (OCPs) exposure. Environment International, 2020, 134, 105313.	10.0	17
23	Raman spectral discrimination in human liquid biopsies of oesophageal transformation to adenocarcinoma. Journal of Biophotonics, 2020, 13, e201960132.	2.3	19
24	Attenuated total reflection Fourier-transform infrared spectroscopy coupled with chemometrics directly detects pre- and post-symptomatic changes in tomato plants infected with Botrytis cinerea. Vibrational Spectroscopy, 2020, 111, 103171.	2.2	2
25	A three-dimensional discriminant analysis approach for hyperspectral images. Analyst, The, 2020, 145, 5915-5924.	3.5	9
26	Spectrochemical differentiation in gestational diabetes mellitus based on attenuated total reflection Fourier-transform infrared (ATR-FTIR) spectroscopy and multivariate analysis. Scientific Reports, 2020, 10, 19259.	3.3	17
27	Identification of resistance in Escherichia coli and Klebsiella pneumoniae using excitation-emission matrix fluorescence spectroscopy and multivariate analysis. Scientific Reports, 2020, 10, 12994.	3 . 3	9
28	Spectrochemical analysis of liquid biopsy harnessed to multivariate analysis towards breast cancer screening. Scientific Reports, 2020, 10, 12818.	3.3	15
29	Spectrochemical analysis in blood plasma combined with subsequent chemometrics for fibromyalgia detection. Scientific Reports, 2020, 10, 11769.	3.3	17
30	Discrimination of oesophageal transformation stages to adenocarcinoma in human tissue samples using Raman microspectroscopy. Vibrational Spectroscopy, 2020, 111, 103141.	2.2	2
31	ATR-FTIR spectroscopy in blood plasma combined with multivariate analysis to detect HIV infection in pregnant women. Scientific Reports, 2020, 10, 20156.	3.3	29
32	Detecting Endometrial Cancer by Blood Spectroscopy: A Diagnostic Cross-Sectional Study. Cancers, 2020, 12, 1256.	3.7	32
33	Quantification of milk adulterants (starch, H2O2, and NaClO) using colorimetric assays coupled to smartphone image analysis. Microchemical Journal, 2020, 156, 104968.	4.5	28
34	Tutorial: multivariate classification for vibrational spectroscopy in biological samples. Nature Protocols, 2020, 15, 2143-2162.	12.0	181
35	Vibrational spectroscopy in protein research toward virus identification: challenges, new research, and future perspectives., 2020, , 315-335.		1
36	Paper Spray Ionization Mass Spectrometry as a Potential Tool for Early Diagnosis of Cervical Cancer. Journal of the American Society for Mass Spectrometry, 2020, 31, 1665-1672.	2.8	19

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37	Conventional and alternative pre-harvest treatments affect the quality of †Golden delicious†and af York†apple fruit. Environmental and Experimental Botany, 2020, 173, 104005.	4.2	4
38	Establishing spectrochemical changes in the natural history of oesophageal adenocarcinoma from tissue Raman mapping analysis. Analytical and Bioanalytical Chemistry, 2020, 412, 4077-4087.	3.7	8
39	Spectrochemical identification of kanamycin resistance genes in artificial microbial communities using Clover-assay. Journal of Pharmaceutical and Biomedical Analysis, 2020, 181, 113108.	2.8	4
40	Non-destructive genotypes classification and oil content prediction using near-infrared spectroscopy and chemometric tools in soybean breeding program. Journal of Food Composition and Analysis, 2020, 91, 103536.	3.9	6
41	Spectral classification for diagnosis involving numerous pathologies in a complex clinical setting: A neuro-oncology example. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 89-96.	3.9	13
42	Assessment of macadamia kernel quality defects by means of near infrared spectroscopy (NIRS) and nuclear magnetic resonance (NMR). Food Control, 2019, 106, 106695.	5.5	15
43	Determination of meningioma brain tissue grades using Raman hyperspectral imaging. Neuro-Oncology, 2019, 21, iv5-iv6.	1.2	0
44	Predicting meningioma recurrence using spectrochemical analysis of tissues and subsequent predictive computational algorithms. Neuro-Oncology, 2019, 21, iv5-iv5.	1.2	0
45	A three-dimensional principal component analysis approach for exploratory analysis of hyperspectral data: identification of ovarian cancer samples based on Raman microspectroscopy imaging of blood plasma. Analyst, The, 2019, 144, 2312-2319.	3.5	22
46	Determination of developmental and ripening stages of whole tomato fruit using portable infrared spectroscopy and Chemometrics. BMC Plant Biology, 2019, 19, 236.	3.6	40
47	Improving data splitting for classification applications in spectrochemical analyses employing a random-mutation Kennard-Stone algorithm approach. Bioinformatics, 2019, 35, 5257-5263.	4.1	72
48	New approach to investigate Common Variable Immunodeficiency patients using spectrochemical analysis of blood. Scientific Reports, 2019, 9, 7239.	3.3	15
49	Fourier transform infrared and Ramanâ€based biochemical profiling of different grades of pure foetalâ€type hepatoblastoma. Journal of Biophotonics, 2019, 12, e201800304.	2.3	4
50	Variable Selection Towards Classification of Digital Images: Identification of Altered Glucose Levels in Serum. Analytical Letters, 2019, 52, 2239-2250.	1.8	4
51	Ex Vivo Raman Spectrochemical Analysis Using a Handheld Probe Demonstrates High Predictive Capability of Brain Tumour Status. Biosensors, 2019, 9, 49.	4.7	19
52	TTWD-DA: A MATLAB toolbox for discriminant analysis based on trilinear three-way data. Chemometrics and Intelligent Laboratory Systems, 2019, 188, 46-53.	3.5	11
53	Standardization of complex biologically derived spectrochemical datasets. Nature Protocols, 2019, 14, 1546-1577.	12.0	96
54	Advances in chemometric control of commercial diesel adulteration by kerosene using IR spectroscopy. Analytical and Bioanalytical Chemistry, 2019, 411, 2301-2315.	3.7	19

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55	Estimation of Ascorbic Acid in Intact Acerola (Malpighia emarginata DC) Fruit by NIRS and Chemometric Analysis. Horticulturae, 2019, 5, 12.	2.8	6
56	P4â€547: IDENTIFYING SPECTRAL MARKERS FOR THE DIFFERENTIAL DIAGNOSIS OF DEMENTIA IN BIOFLUIDS AND BUCCAL CELLS. Alzheimer's and Dementia, 2019, 15, P1526.	0.8	0
57	Determination of meningioma brain tumour grades using Raman microspectroscopy imaging. Analyst, The, 2019, 144, 7024-7031.	3.5	18
58	Attenuated total reflection Fourier-transform infrared spectral discrimination in human bodily fluids of oesophageal transformation to adenocarcinoma. Analyst, The, 2019, 144, 7447-7456.	3.5	34
59	Non-destructive assessment of the oxidative stability of intact macadamia nuts during the drying process by near-infrared spectroscopy. LWT - Food Science and Technology, 2019, 103, 101-107.	5.2	8
60	4-Nonylphenol effects on rat testis and sertoli cells determined by spectrochemical techniques coupled with chemometric analysis. Chemosphere, 2019, 218, 64-75.	8.2	17
61	Uncertainty estimation and misclassification probability for classification models based on discriminant analysis and support vector machines. Analytica Chimica Acta, 2019, 1063, 40-46.	5.4	26
62	Identification of diabetic patients via urine analysis by FTIR: preliminary study (Conference) Tj ETQq0 0 0 rgBT /Ove	erlock 10 ⁻	Tf _. 50 462 To
63	EP857 Distinguishing benign vs. cancer states in ovary based on spectrochemical analysis of ascites: a budget omics approach. , 2019, , .		O
64	Mass spectrometry and multivariate analysis to classify cervical intraepithelial neoplasia from blood plasma: an untargeted lipidomic study. Scientific Reports, 2018, 8, 3954.	3.3	10
65	Aluminium foil as an alternative substrate for the spectroscopic interrogation of endometrial cancer. Journal of Biophotonics, 2018, 11, e201700372.	2.3	16
66	Using Intact Nuts and Near Infrared Spectroscopy to Classify Macadamia Cultivars. Food Analytical Methods, 2018, 11, 1857-1866.	2.6	18
67	Identification Using Classification Analysis of Flunitrazepam in Necrophagous Larvae via Differential Pulse Voltammetry and Fluorescence Excitation-Emission Matrix (EEM) Spectroscopy. Journal of the Brazilian Chemical Society, 2018, , .	0.6	3
68	Assessing Binary Mixture Effects from Genotoxic and Endocrine Disrupting Environmental Contaminants Using Infrared Spectroscopy. ACS Omega, 2018, 3, 13399-13412.	3.5	6
69	A Multivariate Control Chart Approach for Calibration Transfer between NIR Spectrometers for Simultaneous Determination of Rifampicin and Isoniazid in Pharmaceutical Formulation. Current Analytical Chemistry, 2018, 14, 488-494.	1.2	4
70	Prediction of meat quality traits in Nelore cattle by near-infrared reflectance spectroscopy1. Journal of Animal Science, 2018, 96, 4229-4237.	0.5	15
71	Cold storage of â€ [^] Palmerâ€ [™] mangoes sorted based on dry matter content using portable near infrared (VIS-NIR) spectrometer. Journal of Food Processing and Preservation, 2018, 42, e13644.	2.0	11
72	Colourimetric Determination of High-Density Lipoprotein (HDL) Cholesterol Using Red–Green–Blue Digital Colour Imaging. Analytical Letters, 2018, 51, 2860-2867.	1.8	3

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73	Synchrotron- and focal plane array-based Fourier-transform infrared spectroscopy differentiates the basalis and functionalis epithelial endometrial regions and identifies putative stem cell regions of human endometrial glands. Analytical and Bioanalytical Chemistry, 2018, 410, 4541-4554.	3.7	22
74	Blood-based near-infrared spectroscopy for the rapid low-cost detection of Alzheimer's disease. Analyst, The, 2018, 143, 5959-5964.	3.5	26
7 5	SVM for FTâ€MIR prostate cancer classification: An alternative to the traditional methods. Journal of Chemometrics, 2018, 32, e3075.	1.3	10
76	Raman Spectroscopy to Diagnose Alzheimer's Disease and Dementia with Lewy Bodies in Blood. ACS Chemical Neuroscience, 2018, 9, 2786-2794.	3.5	62
77	Potential of mid-infrared spectroscopy as a non-invasive diagnostic test in urine for endometrial or ovarian cancer. Analyst, The, 2018, 143, 3156-3163.	3.5	59
78	LDA vs. QDA for FT-MIR prostate cancer tissue classification. Chemometrics and Intelligent Laboratory Systems, 2017, 162, 123-129.	3.5	64
79	Variable selection with a support vector machine for discriminating Cryptococcus fungal species based on ATR-FTIR spectroscopy. Analytical Methods, 2017, 9, 2964-2970.	2.7	29
80	Comparison of multivariate classification algorithms using EEM fluorescence data to distinguish Cryptococcus neoformans and Cryptococcus gattii pathogenic fungi. Analytical Methods, 2017, 9, 3968-3976.	2.7	9
81	MCR-ALS and PLS coupled to NIR/MIR spectroscopies for quantification and identification of adulterant in biodiesel-diesel blends. Fuel, 2017, 210, 497-506.	6.4	32
82	Spectroscopy with computational analysis in virological studies: AÂdecade (2006–2016). TrAC - Trends in Analytical Chemistry, 2017, 97, 244-256.	11.4	58
83	[P1–246]: VIBRATIONAL SPECTROSCOPY OF BLOOD PLASMA FOR THE DIAGNOSIS OF ALZHEIMER'S DISEASE AND DIFFERENTIATION FROM DEMENTIA WITH LEWY BODIES. Alzheimer's and Dementia, 2017, 13, P340.	0.8	O
84	Comparing unfolded and two-dimensional discriminant analysis and support vector machines for classification of EEM data. Chemometrics and Intelligent Laboratory Systems, 2017, 170, 1-12.	3.5	45
85	Differential diagnosis of Alzheimer's disease using spectrochemical analysis of blood. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7929-E7938.	7.1	125
86	An imaging dataset of cervical cells using scanning near-field optical microscopy coupled to an infrared free electron laser. Scientific Data, 2017, 4, 170084.	5.3	3
87	Spectroscopy of blood samples for the diagnosis of endometrial cancer and classification of its different subtypes Journal of Clinical Oncology, 2017, 35, 5596-5596.	1.6	2
88	Quantification of Synthetic Amino-Nitroquinoxaline Dyes: An Approach Using Image Analysis. Journal of the Brazilian Chemical Society, 2016, , .	0.6	2
89	Direct quantitative analysis of cocaine by thin layer chromatography plus a mobile phone and multivariate calibration: a cost-effective and rapid method. Analytical Methods, 2016, 8, 7632-7637.	2.7	18
90	Integrating a Smartphone and Molecular Modeling for Determining the Binding Constant and Stoichiometry Ratio of the Iron(II)–Phenanthroline Complex: An Activity for Analytical and Physical Chemistry Laboratories. Journal of Chemical Education, 2016, 93, 1760-1765.	2.3	29

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91	Attenuated total reflection Fourier transform-infrared (ATR-FTIR) spectroscopy as a new technology for discrimination between Cryptococcus neoformans and Cryptococcus gattii. Analytical Methods, 2016, 8, 7107-7115.	2.7	15
92	Determination of serum protein content using cell phone image analysis. Analytical Methods, 2016, 8, 6458-6462.	2.7	10
93	ATR-FTIR and multivariate analysis as a screening tool for cervical cancer in women from northeast Brazil: a biospectroscopic approach. RSC Advances, 2016, 6, 99648-99655.	3.6	17
94	Imaging cervical cytology with scanning near-field optical microscopy (SNOM) coupled with an IR-FEL. Scientific Reports, 2016, 6, 29494.	3.3	17
95	Determination of the geographical origin and ethanol content of Brazilian sugarcane spirit using near-infrared spectroscopy coupled with discriminant analysis. Analytical Methods, 2016, 8, 5658-5666.	2.7	23
96	Determination and analytical validation of creatinine content in serum using image analysis by multivariate transfer calibration procedures. Analytical Methods, 2015, 7, 6904-6910.	2.7	11
97	A low-cost microcontrolled photometer with one color recognition sensor for selective detection of Pb ²⁺ using gold nanoparticles. Analytical Methods, 2015, 7, 7917-7922.	2.7	21
98	A colorimetric microwell method using a desktop scanner for biochemical assays. Talanta, 2014, 126, 145-150.	5.5	23
99	Low-Cost Method for Quantifying Sodium in Coconut Water and Seawater for the Undergraduate Analytical Chemistry Laboratory: Flame Test, a Mobile Phone Camera, and Image Processing. Journal of Chemical Education, 2014, 91, 1958-1960.	2.3	40
100	Principal Component Analysis with Linear and Quadratic Discriminant Analysis for Identification of Cancer Samples Based on Mass Spectrometry. Journal of the Brazilian Chemical Society, 0, , .	0.6	16
101	Colorimetric Determination of Ascorbic Acid Based on Its Interfering Effect in the Enzymatic Analysis of Glucose: An Approach Using Smartphone Image Analysis. Journal of the Brazilian Chemical Society, 0, , .	0.6	3
102	A Low-Cost Video-Based Reflectometer for Selective Detection of Cu2+ Using Paper-Based Colorimetric Sensors. Journal of the Brazilian Chemical Society, 0, , .	0.6	1
103	A computational protocol for sample selection in biological-derived infrared spectroscopy datasets using Morais-Lima-Martin (MLM) algorithm. Protocol Exchange, 0, , .	0.3	1
104	Detecting Endometrial Cancer by Blood Spectroscopy: A Diagnostic Cross-Sectional Study. SSRN Electronic Journal, 0, , .	0.4	0