Marta B. Lopes

List of Publications by Year
in descending order

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46 papers	1,009 citations	516215 16 h-index	454577 30 g-index
47 all docs	47 docs citations	47 times ranked	1139 citing authors

#	Article	IF	Citations
1	ROSIE: RObust Sparse ensemble for outlIEr detection and gene selection in cancer omics data. Statistical Methods in Medical Research, 2022, , 096228022110724.	0.7	1
2	Statistical and Machine Learning Techniques in Human Microbiome Studies: Contemporary Challenges and Solutions. Frontiers in Microbiology, 2021, 12, 635781.	1.5	51
3	Applications of Machine Learning in Human Microbiome Studies: A Review on Feature Selection, Biomarker Identification, Disease Prediction and Treatment. Frontiers in Microbiology, 2021, 12, 634511.	1.5	157
4	The Role of Network Science in Glioblastoma. Cancers, 2021, 13, 1045.	1.7	6
5	A Review of Recent Machine Learning Advances for Forecasting Harmful Algal Blooms and Shellfish Contamination. Journal of Marine Science and Engineering, 2021, 9, 283.	1.2	57
6	Learning Biomedical Networks: Toward Data-Informed Clinical Decision and Therapy. Computational Biology, 2021, , 77-92.	0.1	0
7	TCox: Correlation-Based Regularization Applied to Colorectal Cancer Survival Data. Biomedicines, 2020, 8, 488.	1.4	4
8	Tracking intratumoral heterogeneity in glioblastoma via regularized classification of single-cell RNA-Seq data. BMC Bioinformatics, 2020, 21, 59.	1.2	17
9	Unravelling Breast and Prostate Common Gene Signatures by Bayesian NetworkÂLearning. Lecture Notes in Computer Science, 2020, , 285-292.	1.0	0
10	Identification of Common Gene Signatures in Microarray and RNA-Sequencing Data Using Network-Based Regularization. Lecture Notes in Computer Science, 2020, , 15-26.	1.0	0
11	Random Sample Consensus for the Robust Identification of Outliers in Cancer Data. Lecture Notes in Computer Science, 2020, , 108-118.	1.0	0
12	Network-Based Variable Selection for Survival Outcomes in Oncological Data. Lecture Notes in Computer Science, 2020, , 550-561.	1.0	0
13	Twiner: correlation-based regularization for identifying common cancer gene signatures. BMC Bioinformatics, 2019, 20, 356.	1.2	12
14	Robust identification of target genes and outliers in triple-negative breast cancer data. Statistical Methods in Medical Research, 2019, 28, 3042-3056.	0.7	17
15	Variable Selection and Outlier Detection in Regularized Survival Models: Application to Melanoma Gene Expression Data. Lecture Notes in Computer Science, 2019, , 431-440.	1.0	3
16	On the Role of Hub and Orphan Genes in the Diagnosis of Breast Invasive Carcinoma. Lecture Notes in Computer Science, 2019, , 631-642.	1.0	0
17	Ensemble outlier detection and gene selection in triple-negative breast cancer data. BMC Bioinformatics, 2018, 19, 168.	1.2	23
18	Determination of Cell Abundances and Paralytic Shellfish Toxins in Cultures of the Dinoflagellate Gymnodinium catenatum by Fourier Transform Near Infrared Spectroscopy. Journal of Marine Science and Engineering, 2018, 6, 147.	1.2	4

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19	Assessing plasmid bioprocess reproducibility and Câ€source uptake stage through multivariate analysis of offline and online data. Journal of Chemical Technology and Biotechnology, 2018, 93, 3056-3066.	1.6	1
20	Identification of influential observations in high-dimensional cancer survival data through the rank product test. BioData Mining, 2018, 11, 1.	2.2	24
21	High-throughput FTIR-based bioprocess analysis of recombinant cyprosin production. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 49-61.	1.4	9
22	Does Nonlinear Modeling Play a Role in Plasmid Bioprocess Monitoring Using Fourier Transform Infrared Spectra?. Applied Spectroscopy, 2017, 71, 1148-1156.	1.2	2
23	Metabolic profiling of recombinant Escherichia coli cultivations based on highâ€throughput FTâ€MIR spectroscopic analysis. Biotechnology Progress, 2017, 33, 285-298.	1.3	15
24	Monitoring the exâ€vivo expansion of human mesenchymal stem/stromal cells in xenoâ€free microcarrierâ€based reactor systems by <scp>MIR</scp> spectroscopy. Biotechnology Progress, 2016, 32, 447-455.	1.3	11
25	In Situ Near-Infrared (NIR) versus High-Throughput Mid-Infrared (MIR) Spectroscopy to Monitor Biopharmaceutical Production. Applied Spectroscopy, 2015, 69, 760-772.	1.2	30
26	Molecular fingerprint of human gastric cell line infected by Helicobacter pylori. , 2015, , .		2
27	A comprehensive high-throughput FTIR spectroscopy-based method for evaluating the transfection event: estimating the transfection efficiency and extracting associated metabolic responses. Analytical and Bioanalytical Chemistry, 2015, 407, 8097-8108.	1.9	15
28	In situ <scp>NIR</scp> spectroscopy monitoring of plasmid production processes: effect of producing strain, medium composition and the cultivation strategy. Journal of Chemical Technology and Biotechnology, 2015, 90, 255-261.	1.6	20
29	In situ near infrared spectroscopy monitoring of cyprosin production by recombinant Saccharomyces cerevisiae strains. Journal of Biotechnology, 2014, 188, 148-157.	1.9	17
30	Kinetic modeling of plasmid bioproduction in Escherichia coli DH5Î± cultures over different carbon-source compositions. Journal of Biotechnology, 2014, 186, 38-48.	1.9	13
31	Real-time plasmid monitoring of batch and fed-batch Escherichia coli cultures by NIR spectroscopy. , 2013, , .		0
32	Modelling, monitoring and control of plasmid bioproduction in Escherichia coli cultures. , 2012, , .		2
33	Comparison of near infrared and Raman hyperspectral unmixing performances for chemical identification of pharmaceutical tablets. , 2011, , .		3
34	Study on the Effect of Pixel Resolution and Blending Grade on Near-Infrared Hyperspectral Unmixing of Tablets. Applied Spectroscopy, 2011, 65, 193-200.	1.2	31
35	Investigating Counterfeit Medicinesâ€"The near Infrared Chemical Imaging Picture. NIR News, 2011, 22, 10-18.	1.6	2
36	Quantification of Components in Non-Homogenous Pharmaceutical Tablets Using near Infrared Reflectance Imaging. Journal of Near Infrared Spectroscopy, 2010, 18, 333-340.	0.8	4

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37	Reply to the Comments on â€œNear-Infrared Hyperspectral Unmixing Based on a Minimum Volume Criterion for Fast and Accurate Chemometric Characterization of Counterfeit Tabletsâ€• Analytical Chemistry, 2010, 82, 8753-8754.	3.2	1
38	Near-Infrared Hyperspectral Unmixing Based on a Minimum Volume Criterion for Fast and Accurate Chemometric Characterization of Counterfeit Tablets. Analytical Chemistry, 2010, 82, 1462-1469.	3.2	67
39	Determination of the composition of counterfeit Heptodin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mo>â„¢</mml:mo></mml:math> tablets by near infrared chemical imaging and classical least squares estimation. Analytica Chimica Acta, 2009, 641, 46-51.	2.6	47
40	Investigation into classification/sourcing of suspect counterfeit Heptodinâ„¢ tablets by near infrared chemical imaging. Analytica Chimica Acta, 2009, 633, 149-155.	2.6	56
41	Spectral unmixing via minimum volume simplices: Application to near infrared spectra of counterfeit tablets. , 2009, , .		8
42	A bootstrapâ€based strategy for spectral interval selection in PLS regression. Journal of Chemometrics, 2008, 22, 695-700.	0.7	43
43	Relative importance of estuarine flatfish nurseries along the Portuguese coast. Journal of Sea Research, 2007, 57, 209-217.	0.6	140
44	The ecological significance of the zooplanktivores, snipefish Macroramphosus spp. and boarfish Capros aper, in the food web of the south-east North Atlantic. Journal of Fish Biology, 2006, 69, 363-378.	0.7	19
45	Discrimination of snipefish Macroramphosus species and boarfish Capros aper morphotypes through multivariate analysis of body shape. Helgoland Marine Research, 2006, 60, 18-24.	1.3	9
46	Trophic niche overlap between flatfishes in a nursery area on the Portuguese coast. Scientia Marina, 2002, 66, 293-300.	0.3	58