Jean-michel Roger

List of Publications by Year
in descending order

140	4,738	109321	110387
papers	citations	35 h-index	64 g-index

140	140	140	4155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Critical review of chemometric indicators commonly used for assessing the quality of the prediction of soil attributes by NIR spectroscopy. TrAC - Trends in Analytical Chemistry, 2010, 29, 1073-1081.	11.4	668
2	EPOâ€“PLS external parameter orthogonalisation of PLS application to temperature-independent measurement of sugar content of intact fruits. Chemometrics and Intelligent Laboratory Systems, 2003, 66, 191-204.	3.5	240
3	Non-destructive tests on the prediction of apple fruit flesh firmness and soluble solids content on tree and in shelf life. Journal of Food Engineering, 2006, 77, 254-260.	5.2	234
4	Removing the effect of soil moisture from NIR diffuse reflectance spectra for the prediction of soil organic carbon. Geoderma, 2011, 167-168, 118-124.	5.1	229
5	New data preprocessing trends based on ensemble of multiple preprocessing techniques. TrAC - Trends in Analytical Chemistry, 2020, 132, 116045.	11.4	173
6	Robustness of models developed by multivariate calibration. Part II: The influence of pre-processing methods. TrAC - Trends in Analytical Chemistry, 2005, 24, 437-445.	11.4	126
7	Chemometrics in analytical chemistryâ€”part II: modeling, validation, and applications. Analytical and Bioanalytical Chemistry, 2018, 410, 6691-6704.	3.7	102
8	Authenticating white grape must variety with classification models based on aroma sensors, FT-IR and UV spectrometry. Journal of Food Engineering, 2003, 60, 407-419.	5.2	97
9	Chemometrics in analytical chemistryâ€”part I: history, experimental design and data analysis tools. Analytical and Bioanalytical Chemistry, 2017, 409, 5891-5899.	3.7	95
10	Robustness of models developed by multivariate calibration. Part I. TrAC - Trends in Analytical Chemistry, 2004, 23, 157-170.	11.4	91
11	Recent trends in multi-block data analysis in chemometrics for multi-source data integration. TrAC - Trends in Analytical Chemistry, 2021, 137, 116206.	11.4	86
12	Fusion of aroma, FT-IR and UV sensor data based on the Bayesian inference. Application to the discrimination of white grape varieties. Chemometrics and Intelligent Laboratory Systems, 2003, 65, 209-219.	3.5	76
13	Predictive ability of soil properties to spectral degradation from laboratory Vis-NIR spectroscopy data. Geoderma, 2017, 288, 143-153.	5.1	75
14	Evaluation of Oil-Palm Fungal Disease Infestation with Canopy Hyperspectral Reflectance Data. Sensors, 2010, 10, 734-747.	3.8	74
15	Combining linear polarization spectroscopy and the Representative Layer Theory to measure the Beerâ€“Lambert law absorbance of highly scattering materials. Analytica Chimica Acta, 2015, 853, 486-494.	5.4	67
16	Sequential preprocessing through ORThogonalization (SPORT) and its application to near infrared spectroscopy. Chemometrics and Intelligent Laboratory Systems, 2020, 199, 103975.	3.5	66
17	Application of independent components analysis with the JADE algorithm and NIR hyperspectral imaging for revealing food adulteration. Journal of Food Engineering, 2016, 168, 7-15.	5.2	61
18	Sensitivity of clay content prediction to spectral configuration of VNIR/SWIR imaging data, from multispectral to hyperspectral scenarios. Remote Sensing of Environment, 2018, 204, 18-30.	11.0	61

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19	Sequential fusion of information from two portable spectrometers for improved prediction of moisture and soluble solids content in pear fruit. Talanta, 2021, 223, 121733.	5.5	61
20	VSN: Variable sorting for normalization. Journal of Chemometrics, 2020, 34, e3164.	1.3	59
21	Comparison of multispectral indexes extracted from hyperspectral images for the assessment of fruit ripening. Journal of Food Engineering, 2011, 104, 612-620.	5.2	57
22	Calibration transfer of intact olive NIR spectra between a pre-dispersive instrument and a portable spectrometer. Computers and Electronics in Agriculture, 2013, 96, 202-208.	7.7	55
23	Examination of the quality of spinach leaves using hyperspectral imaging. Postharvest Biology and Technology, 2013, 85, 8-17.	6.0	53
24	Application of independent component analysis on Raman images of a pharmaceutical drug product: Pure spectra determination and spatial distribution of constituents. Journal of Pharmaceutical and Biomedical Analysis, 2014, 90, 78-84.	2.8	53
25	Chemometric pre-processing can negatively affect the performance of near-infrared spectroscopy models for fruit quality prediction. Talanta, 2021, 229, 122303.	5.5	53
26	Applicability of Vis-NIR hyperspectral imaging for monitoring wood moisture content (MC). Holzforschung, 2013, 67, 307-314.	1.9	52
27	Detection and Quantification of Peanut Traces in Wheat Flour by near Infrared Hyperspectral Imaging Spectroscopy Using Principal-Component Analysis. Journal of Near Infrared Spectroscopy, 2015, 23, 15-22.	1.5	52
28	SPORT pre-processing can improve near-infrared quality prediction models for fresh fruits and agro-materials. Postharvest Biology and Technology, 2020, 168, 111271.	6.0	48
29	Robustness of Models Based on NIR Spectra for Sugar Content Prediction in Apples. Journal of Near Infrared Spectroscopy, 2003, 11, 97-107.	1.5	46
30	SOâ€CovSel: A novel method for variable selection in a multiblock framework. Journal of Chemometrics, 2020, 34, e3120.	1.3	46
31	Improving the transfer of near infrared prediction models by orthogonal methods. Chemometrics and Intelligent Laboratory Systems, 2009, 99, 57-65.	3.5	43
32	Are standard sample measurements still needed to transfer multivariate calibration models between near-infrared spectrometers? The answer is not always. TrAC - Trends in Analytical Chemistry, 2021, 143, 116331.	11.4	39
33	Raman spectroscopy and multivariate analysis for the rapid discrimination between native-like and non-native states in freeze-dried protein formulations. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 85, 263-271.	4.3	37
34	Monitoring spinach shelf-life with hyperspectral image through packaging films. Journal of Food Engineering, 2013, 119, 353-361.	5.2	37
35	Clay content mapping from airborne hyperspectral Vis-NIR data by transferring a laboratory regression model. Geoderma, 2017, 298, 54-66.	5.1	37
36	Pretreatments by means of orthogonal projections. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 61-69.	3.5	36

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37	MBA-GUI: A chemometric graphical user interface for multi-block data visualisation, regression, classification, variable selection and automated pre-processing. Chemometrics and Intelligent Laboratory Systems, 2020, 205, 104139.	3.5	36
38	Two standard-free approaches to correct for external influences on near-infrared spectra to make models widely applicable. Postharvest Biology and Technology, 2020, 170, 111326.	6.0	36
39	Assessing yeast viability from cell size measurements?. Journal of Biotechnology, 2010, 149, 74-80.	3.8	35
40	Combination of optical and non-destructive mechanical techniques for the measurement of maturity in peach. Journal of Food Engineering, 2012, 108, 150-157.	5.2	35
41	Volatile compounds profiling by using proton transfer reactionâ€time of flightâ€mass spectrometry (PTRâ€ToFâ€MS). The case study of dark chocolates organoleptic differences. Journal of Mass Spectrometry, 2019, 54, 92-119.	1.6	33
42	Comparison of locally weighted PLS strategies for regression and discrimination on agronomic NIR data. Journal of Chemometrics, 2020, 34, e3209.	1.3	33
43	Management zone delineation using a modified watershed algorithm. Precision Agriculture, 2008, 9, 233-250.	6.0	32
44	Distribution of a low dose compound within pharmaceutical tablet by using multivariate curve resolution on Raman hyperspectral images. Journal of Pharmaceutical and Biomedical Analysis, 2015, 103, 35-43.	2.8	31
45	Major Issues of Diffuse Reflectance NIR Spectroscopy in the Specific Context of Soil Carbon Content Estimation. Advances in Agronomy, 2014, 123, 145-175.	5.2	30
46	Fast Fluorescence Spectroscopy Methodology to Monitor the Evolution of Extra Virgin Olive Oils Under Illumination. Food and Bioprocess Technology, 2017, 10, 949-961.	4.7	30
47	Automatic de-noising of close-range hyperspectral images with a wavelength-specific shearlet-based image noise reduction method. Sensors and Actuators B: Chemical, 2019, 281, 1034-1044.	7.8	27
48	Pattern analysis techniques to process fermentation curves: Application to discrimination of enological alcoholic fermentations. Biotechnology and Bioengineering, 2002, 79, 804-815.	3.3	26
49	Resample and combine: an approach to improving uncertainty representation in evidential pattern classification. Information Fusion, 2003, 4, 75-85.	19.1	25
50	Analysis of the uncertainties affecting predictions of clay contents from VNIR/SWIR hyperspectral data. Remote Sensing of Environment, 2015, 156, 58-70.	11.0	25
51	Comparison of the efficacy of spectral pre-treatments for wheat and weed discrimination in outdoor conditions. Computers and Electronics in Agriculture, 2014, 108, 242-249.	7.7	24
52	3D front face solid-phase fluorescence spectroscopy combined with Independent Components Analysis to characterize organic matter in model soils. Talanta, 2014, 125, 146-152.	5.5	22
53	Near infrared hyperspectral dataset of healthy and infected apple tree leaves images for the early detection of apple scab disease. Data in Brief, 2018, 16, 967-971.	1.0	22
54	Detection of early imbalances in semi-continuous anaerobic co-digestion process based on instantaneous biogas production rate. Water Research, 2020, 171, 115444.	11.3	22

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55	Improved prediction of tablet properties with near-infrared spectroscopy by a fusion of scatter correction techniques. Journal of Pharmaceutical and Biomedical Analysis, 2021, 192, 113684.	2.8	22
56	MADSTRESS: A Linear Approach for Evaluating Scattering and Absorption Coefficients of Samples Measured Using Time-Resolved Spectroscopy in Reflection. Applied Spectroscopy, 2005, 59, 1229-1235.	2.2	21
57	Parallel pre-processing through orthogonalization (PORTO) and its application to near-infrared spectroscopy. Chemometrics and Intelligent Laboratory Systems, 2021, 212, 104190.	3.5	21
58	A technical opportunity index adapted to zone-specific management. Precision Agriculture, 2011, 12, 130-145.	6.0	20
59	Spatial data fusion for qualitative estimation of fuzzy request zones: Application on precision viticulture. Fuzzy Sets and Systems, 2007, 158, 535-554.	2.7	19
60	Correction of moisture effects on near infrared calibration for the analysis of phenol content in eucalyptus wood extracts. Annals of Forest Science, 2008, 65, 803-803.	2.0	19
61	Removing the Block Effects in Calibration by Means of Dynamic Orthogonal Projection. Application to the Year Effect Correction for Wheat Protein Prediction. Journal of Near Infrared Spectroscopy, 2008, 16, 311-315.	1.5	17
62	An iterative hyperspectral image segmentation method using a cross analysis of spectral and spatial information. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 213-223.	3.5	17
63	Hyperspectral Imaging to Evaluate the Effect of IrrigationWater Salinity in Lettuce. Applied Sciences (Switzerland), 2016, 6, 412.	2.5	17
64	Utilising variable sorting for normalisation to correct illumination effects in close-range spectral images of potato plants. Biosystems Engineering, 2020, 197, 318-323.	4.3	17
65	Least-squares support vector machines modelization for time-resolved spectroscopy. Applied Optics, 2005, 44, 7091.	2.1	16
66	Early detection of the fungal disease "apple scab" using SWIR hyperspectral imaging. , 2019, , .		16
67	Discrimination of Corn from Monocotyledonous Weeds with Ultraviolet (UV) Induced Fluorescence. Applied Spectroscopy, 2011, 65, 10-19.	2.2	15
68	How to build a robust model against perturbation factors with only a few reference values: A chemometric challenge at â€˜ChimiomÃ©trie 2007â€™. Chemometrics and Intelligent Laboratory Systems, 2011, 106, 152-159.	3.5	15
69	Detection of abnormal fermentations in wine process by multivariate statistics and pattern recognition techniques. Journal of Biotechnology, 2012, 159, 336-341.	3.8	15
70	A review of orthogonal projections for calibration. Journal of Chemometrics, 2018, 32, e3045.	1.3	14
71	Improved prediction of fuel properties with near-infrared spectroscopy using a complementary sequential fusion of scatter correction techniques. Talanta, 2021, 223, 121693.	5.5	14
72	Multi-block classification of chocolate and cocoa samples into sensory poles. Food Chemistry, 2021, 340, 127904.	8.2	14

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73	A new optical method coupling light polarization and Visâ€“NIR spectroscopy to improve the measurement of soil carbon content. Soil and Tillage Research, 2016, 155, 461-470.	5.6	13
74	A novel robust PLS regression method inspired from boosting principles: RoBoost-PLSR. Analytica Chimica Acta, 2021, 1179, 338823.	5.4	13
75	Improvement of Direct Calibration in spectroscopy. Analytica Chimica Acta, 2010, 668, 130-136.	5.4	12
76	Improvement of the Chemical Content Prediction of a Model Powder System by Reducing Multiple Scattering Using Polarized Light Spectroscopy. Applied Spectroscopy, 2015, 69, 95-102.	2.2	12
77	Reduction of repeatability error for analysis of variance-Simultaneous Component Analysis (REP-ASCA): Application to NIR spectroscopy on coffee sample. Analytica Chimica Acta, 2020, 1101, 23-31.	5.4	12
78	A â€œbig-dataâ€•algorithm for KNN-PLS. Chemometrics and Intelligent Laboratory Systems, 2020, 203, 104076.	3.5	12
79	Relating Near-Infrared Light Path-Length Modifications to the Water Content of Scattering Media in Near-Infrared Spectroscopy: Toward a New Bouguerâ€“Beerâ€“Lambert Law. Analytical Chemistry, 2021, 93, 6817-6823.	6.5	12
80	Postharvest ripeness assessment of â€˜Hassâ€™ avocado based on development of a new ripening index and Vis-NIR spectroscopy. Postharvest Biology and Technology, 2021, 181, 111683.	6.0	12
81	Potential of Multiway PLS (N-PLS) Regression Method to Analyse Time-Series of Multispectral Images: A Case Study in Agriculture. Remote Sensing, 2022, 14, 216.	4.0	12
82	An iterative approach for compound detection in an unknown pharmaceutical drug product: Application on Raman microscopy. Journal of Pharmaceutical and Biomedical Analysis, 2016, 120, 342-351.	2.8	11
83	Pre-processing ensembles with response oriented sequential alternation calibration (PROSAC): A step towards ending the pre-processing search and optimization quest for near-infrared spectral modelling. Chemometrics and Intelligent Laboratory Systems, 2022, 222, 104497.	3.5	11
84	Intelligent simulation of plant operation in the wine industry. Food Control, 1994, 5, 91-95.	5.5	10
85	A family of regression methods derived from standard PLSR. Chemometrics and Intelligent Laboratory Systems, 2013, 120, 116-125.	3.5	10
86	Raman model development for the protein conformational state classification in different freeze-dried formulations. Analytica Chimica Acta, 2014, 825, 42-50.	5.4	10
87	Potential of a Spectroscopic Measurement Method Using Addingâ€“Doubling to Retrieve the Bulk Optical Properties of Dense Microalgal Media. Applied Spectroscopy, 2014, 68, 1154-1167.	2.2	10
88	Curve fitting in Fourier transform near infrared spectroscopy used for the analysis of bacterial cells. Journal of Near Infrared Spectroscopy, 2017, 25, 151-164.	1.5	10
89	A partial least squares-based approach to assess the light penetration depth in wheat flour by near infrared hyperspectral imaging. Journal of Near Infrared Spectroscopy, 2020, 28, 25-36.	1.5	10
90	Dataset of visible-near infrared handheld and micro-spectrometers â€“ comparison of the prediction accuracy of sugarcane properties. Data in Brief, 2020, 31, 106013.	1.0	10

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91	Subpixel detection of peanut in wheat flour using a matched subspace detector algorithm and near-infrared hyperspectral imaging. Talanta, 2020, 216, 120993.	5.5	10
92	Improved Discrimination between Monocotyledonous and Dicotyledonous Plants for Weed Control Based on the Blue-Green Region of Ultraviolet-Induced Fluorescence Spectra. Applied Spectroscopy, 2010, 64, 30-36.	2.2	9
93	Unveiling non-linear water effects in near infrared spectroscopy: A study on organic wastes during drying using chemometrics. Waste Management, 2021, 122, 36-48.	7.4	9
94	Fast at-line characterization of solid organic waste: Comparing analytical performance of different compact near infrared spectroscopic systems with different measurement configurations. Waste Management, 2021, 126, 664-673.	7.4	9
95	Potential of VIS-NIR spectroscopy to characterize and discriminate topsoils of different soil types in the Triffa plain (Morocco). Soil Science Annual, 2019, 70, 54-63.	0.8	9
96	Autofluorescence of grape berries following Botrytis cinerea infection. International Journal of Remote Sensing, 2011, 32, 3835-3849.	2.9	8
97	Test of sampling methods to optimize the calibration of vine water status spatial models. Precision Agriculture, 2018, 19, 365-378.	6.0	8
98	FRUITNIR-GUI: A graphical user interface for correcting external influences in multi-batch near infrared experiments related to fruit quality prediction. Postharvest Biology and Technology, 2021, 175, 111414.	6.0	8
99	A new formulation to estimate the variance of model prediction. Application to near infrared spectroscopy calibration. Analytica Chimica Acta, 2012, 721, 28-34.	5.4	7
100	Nearâ€Infrared Spectrum Analysis to Determine Relationships between Biochemical Composition and Anaerobic Digestion Performances. Chemical Engineering and Technology, 2018, 41, 727-738.	1.5	7
101	Using spatial information for evaluating the quality of prediction maps from hyperspectral images: A geostatistical approach. Analytica Chimica Acta, 2019, 1077, 116-128.	5.4	7
102	Fault detection with moving window PCA using NIRS spectra for monitoring the anaerobic digestion process. Water Science and Technology, 2020, 81, 367-382.	2.5	7
103	A short note on achieving similar performance to deep learning with practical chemometrics. Chemometrics and Intelligent Laboratory Systems, 2021, 214, 104336.	3.5	7
104	Effects of Preprocessing of Ultraviolet-Induced Fluorescence Spectra in Plant Fingerprinting Applications. Applied Spectroscopy, 2008, 62, 747-752.	2.2	6
105	Visible and Near-Infrared Multispectral Features in Conjunction with Artificial Neural Network and Partial Least Squares for Predicting Biochemical and Micro-Structural Features of Beef Muscles. Foods, 2020, 9, 1254.	4.3	6
106	Multiblock Analysis to Relate Polyphenol Targeted Mass Spectrometry and Sensory Properties of Chocolates and Cocoa Beans. Metabolites, 2020, 10, 311.	2.9	6
107	Comparative study of two methods (hexane extraction and NMR) for the determination of oil content in an individual olive fruit. European Journal of Lipid Science and Technology, 2013, 115, 1070-1077.	1.5	5
108	DROP-D: Dimension reduction by orthogonal projection for discrimination. Chemometrics and Intelligent Laboratory Systems, 2015, 146, 221-231.	3.5	5

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109	A note on spectral data simulation. Chemometrics and Intelligent Laboratory Systems, 2020, 200, 103979.	3.5	5
110	Potential of high-spectral resolution for field phenotyping in plant breeding: Application to maize under water stress. Computers and Electronics in Agriculture, 2021, 189, 106385.	7.7	5
111	Domain invariant covariate selection (Di-CovSel) for selecting generalized features across domains. Chemometrics and Intelligent Laboratory Systems, 2022, 222, 104499.	3.5	5
112	An indium phosphide-based near-infrared MOEMS microspectrometer for agri-food and environmental monitoring. , 2007, , .		4
113	Predictive power of LDA to discriminate abnormal wine fermentations. Journal of Chemometrics, 2011, 25, 382-388.	1.3	4
114	Application of direct calibration in multivariate image analysis of heterogeneous materials. Analytica Chimica Acta, 2012, 734, 45-53.	5.4	4
115	A simple, projection-based geometric model for several linear pretreatment and calibration methods. Chemometrics and Intelligent Laboratory Systems, 2014, 138, 48-56.	3.5	4
116	Potential of visâ€“NIR spectroscopy to monitor the silica precipitation reaction. Analytical and Bioanalytical Chemistry, 2017, 409, 785-796.	3.7	4
117	Multiblock Analysis Applied to TD-NMR of Butters and Related Products. Applied Sciences (Switzerland), 2020, 10, 5317.	2.5	4
118	Pre-processing Methods. , 2020, , 1-75.		4
119	Monte Carlo methods for estimating Mallows's Cp and AIC criteria for PLSR models. Illustration on agronomic spectroscopic NIR data. Journal of Chemometrics, 2021, 35, e3369.	1.3	4
120	Untargeted analysis of TD-NMR signals using a multivariate curve resolution approach: Application to the water-imbibition kinetics of Arabidopsis seeds. Talanta, 2021, 233, 122525.	5.5	4
121	Front-Face Fluorescence Spectroscopy and Feature Selection for Fruit Classification Based on N-CovSel Method. Frontiers in Analytical Science, 0, 2, .	2.4	4
122	Setting local rank constraints by orthogonal projections for image resolution analysis: Application to the determination of a low dose pharmaceutical compound. Analytica Chimica Acta, 2015, 892, 49-58.	5.4	3
123	Simulation Method Linking Dense Microalgal Culture Spectral Properties in the 400â€“750â€‰nm Range to the Physiology of the Cells. Applied Spectroscopy, 2016, 70, 1018-1033.	2.2	3
124	An Investigation into the Effects of Pressure on Gas Detection Using an Integrating Sphere as Multipass Gas Absorption Cell: Analysis and Discussion. Journal of Near Infrared Spectroscopy, 2016, 24, 405-412.	1.5	3
125	Multiblock Analysis Applied to Fluorescence and Absorbance Spectra to Estimate Total Polyphenol Content in Extra Virgin Olive Oil. Foods, 2021, 10, 2556.	4.3	3
126	Is It Possible to Assess Heatwave Impact on Grapevines at the Regional Level with Time Series of Satellite Images?. Agronomy, 2022, 12, 563.	3.0	3

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127	A novel methodology for determining effectiveness of preprocessing methods in reducing undesired spectral variability in near infrared spectra. Journal of Near Infrared Spectroscopy, 2022, 30, 74-88.	1.5	3
128	Diesel cetane number estimation from NIR spectra of hydrocracking total effluent. Fuel, 2022, 324, 124647.	6.4	3
129	Application-Dedicated Selection of Filters (ADSF) using covariance maximization and orthogonal projection. Analytica Chimica Acta, 2016, 921, 1-12.	5.4	2
130	Hyperspectral Imaging System Calibration Using Image Translations and Fourier Transform. Journal of Near Infrared Spectroscopy, 2008, 16, 371-380.	1.5	1
131	Discrimination of fungal disease infestation in oil-palm canopy hyperspectral reflectance data. , 2009, , .		1
132	Effect of the Architecture of Fiber-Optic Probes Designed for Soluble Solid Content Prediction in Intact Sugar Beet Slices. Sensors, 2019, 19, 2995.	3.8	1
133	Hyperspectral to multispectral imaging for detection of tree nuts and peanut traces in wheat flour. Journal of Spectral Imaging, 0, , .	0.0	1
134	Assessing the potential of a handheld visible-near infrared microspectrometer for sugar beet phenotyping. Journal of Near Infrared Spectroscopy, 2022, 30, 122-129.	1.5	1
135	Potential of N-CovSel for Variable Selection: A Case Study on Time-Series of Multispectral Images. Frontiers in Analytical Science, 2022, 2, .	2.4	1
136	Improvements in the Robustness of Mid-Infrared Spectroscopy Models against Chemical Interferences: Application to Monitoring of Anaerobic Digestion Processes. AppliedChem, 2022, 2, 117-127.	1.0	1
137	IDC-Improved Direct Calibration: A new direct calibration method applied to hyperspectral image analysis. , 2009, , .		0
138	Spectral-spatial pre-processing using multi-resolution 3D wavelets for hyperspectral image classification. , 2013, , .		0
139	A review of orthogonal projections for calibration. Journal of Chemometrics, 2018, 32, e3089.	1.3	0
140	On-site substrate characterization in the anaerobic digestion context: A dataset of near infrared spectra acquired with four different optical systems on freeze-dried and ground organic waste. Data in Brief, 2021, 36, 107126.	1.0	0