

Review of the most common pre-processing techniques

TrAC - Trends in Analytical Chemistry

28, 1201-1222

DOI: [10.1016/j.trac.2009.07.007](https://doi.org/10.1016/j.trac.2009.07.007)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Asymmetric least squares for multiple spectra baseline correction. <i>Analytica Chimica Acta</i> , 2010, 683, 63-68.	2.6	163
2	A physiochemical theory on the applicability of soft mathematical models—experimentally interpreted. <i>Journal of Chemometrics</i> , 2010, 24, 481-495.	0.7	34
3	Determination of Characteristic Wave Bands and Detection of Melamine in Fishmeal by Fourier Transform near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2010, 18, 113-120.	0.8	10
4	Wavelet unfolded partial least squares for near-infrared spectral quantitative analysis of blood and tobacco powder samples. <i>Analyst, The</i> , 2011, 136, 4217.	1.7	21
5	A comparison of Principal Component Regression and Artificial Neural Network in fruits quality prediction. , 2011, , .		3
6	Use of Near Infrared Reflectance and Transmittance Coupled to Robust Calibration for the Evaluation of Nutritional Value in Naked Oats. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4349-4360.	2.4	28
7	Internal and External Validation Strategies for the Evaluation of Long-Term Effects in NIR Calibration Models. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 1541-1547.	2.4	20
8	Extraction of Chemical Information of Suspensions Using Radiative Transfer Theory To Remove Multiple Scattering Effects: Application to a Model Multicomponent System. <i>Analytical Chemistry</i> , 2011, 83, 1931-1937.	3.2	27
9	Characterisation of heavy oils using near-infrared spectroscopy: Optimisation of pre-processing methods and variable selection. <i>Analytica Chimica Acta</i> , 2011, 705, 227-234.	2.6	54
10	Characterization of marama bean (<i>Tylosema esculentum</i>) by comparative spectroscopy: NMR, FT-Raman, FT-IR and NIR. <i>Food Research International</i> , 2011, 44, 373-384.	2.9	38
11	Comparing different multivariate calibration methods for the determination of soil organic carbon pools with visible to near infrared spectroscopy. <i>Geoderma</i> , 2011, 166, 198-205.	2.3	178
12	Development of a fast and reliable method for long- and short-term wine age prediction. <i>Talanta</i> , 2011, 86, 293-304.	2.9	20
13	Rapid Determination of Metabolites in Biofluid Samples by Raman Spectroscopy and Optimum Combinations of Chemometric Methods. <i>Chinese Journal of Chemistry</i> , 2011, 29, 2525-2532.	2.6	11
14	Determination of total soil organic C and hot water-extractable C from VIS-NIR soil reflectance with partial least squares regression and spectral feature selection techniques. <i>European Journal of Soil Science</i> , 2011, 62, 598-606.	1.8	72
15	Profiling of counterfeit medicines by vibrational spectroscopy. <i>Forensic Science International</i> , 2011, 211, 83-100.	1.3	64
16	The estimation of the age of a blood stain using reflectance spectroscopy with a microspectrophotometer, spectral pre-processing and linear discriminant analysis. <i>Forensic Science International</i> , 2011, 212, 198-204.	1.3	25
17	Direct prediction of bioethanol yield in sugar beet pulp using Near Infrared Spectroscopy. <i>Bioresource Technology</i> , 2011, 102, 9542-9549.	4.8	39
18	Determination of binary polymorphic mixtures of fluconazole using near infrared spectroscopy and X-ray powder diffraction: A comparative study based on the pre-validation stage results. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 55, 1208-1212.	1.4	17

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19	Madeira wine ageing prediction based on different analytical techniques: UV-vis, GC-MS, HPLC-DAD. Chemometrics and Intelligent Laboratory Systems, 2011, 105, 43-55.	1.8	55
20	Parallel genetic algorithm co-optimization of spectral pre-processing and wavelength selection for PLS regression. Chemometrics and Intelligent Laboratory Systems, 2011, 107, 50-58.	1.8	47
21	Adulteration of the anthocyanin content of red wines: Perspectives for authentication by Fourier Transform-Near InfraRed and 1H NMR spectroscopies. Analytica Chimica Acta, 2011, 701, 139-151.	2.6	74
22	The application of chemometrics on Infrared and Raman spectra as a tool for the forensic analysis of paints. Forensic Science International, 2011, 209, 173-182.	1.3	103
23	NIR Monitoring of Ammonia in Anaerobic Digesters Using a Diffuse Reflectance Probe. Sensors, 2012, 12, 2340-2350.	2.1	11
24	Feasibility of Estimating Cu Contamination in Floodplain Soils using VNIR Spectroscopy—A Case Study in the Leian River Floodplain, China. Soil and Sediment Contamination, 2012, 21, 951-969.	1.1	14
25	An On-Line Near-Infrared (NIR) Transmission Method for Determining Depth Profiles of Fatty Acid Composition and Iodine Value in Porcine Adipose Fat Tissue. Applied Spectroscopy, 2012, 66, 218-226.	1.2	34
26	Multispectral Image Analysis for Astaxanthin Coating Classification. Journal of Imaging Science and Technology, 2012, 56, 1-6.	0.3	3
27	On-Line near Infrared Monitoring of Ammonium and Dry Matter in Bioslurry for Robust Biogas Production: A Full-Scale Feasibility Study. Journal of Near Infrared Spectroscopy, 2012, 20, 635-645.	0.8	6
28	Near-infrared hyper-spectral image analysis of astaxanthin concentration in fish feed coating. , 2012, , .		3
29	Visible and Near-Infrared Diffuse Reflectance Spectroscopy for Prediction of Soil Properties near a Copper Smelter. Pedosphere, 2012, 22, 351-366.	2.1	50
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31	Extended multiplicative signal correction in vibrational spectroscopy, a tutorial. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 92-99.	1.8	174
32	MIA and NIR Chemical Imaging for pharmaceutical product characterization. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 240-249.	1.8	23
33	Pre-processing of hyperspectral images. Essential steps before image analysis. Chemometrics and Intelligent Laboratory Systems, 2012, 117, 138-148.	1.8	254
34	Combining infrared spectroscopy with chemometric analysis for the characterization of proteinaceous binders in medieval paints. Chemometrics and Intelligent Laboratory Systems, 2012, 119, 32-38.	1.8	31
35	Klason lignin estimation in Leucaena leucocephala by near infrared spectroscopy for selection of superior material for pulp and paper. Journal of the Indian Academy of Wood Science, 2012, 9, 105-114.	0.3	5
36	Rapid determination of four tobacco specific nitrosamines in burley tobacco by near-infrared spectroscopy. Analytical Methods, 2012, 4, 1371.	1.3	20

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37	Estimation of total iron content in floodplain soils using VNIR spectroscopy – a case study in the Le'an River floodplain, China. <i>International Journal of Remote Sensing</i> , 2012, 33, 5954-5972.	1.3	14
38	Rapid monitoring of grapevine reserves using ATR-FT-IR and chemometrics. <i>Analytica Chimica Acta</i> , 2012, 732, 16-25.	2.6	33
39	Tracing the origin of extra virgin olive oils by infrared spectroscopy and chemometrics: A case study. <i>Analytica Chimica Acta</i> , 2012, 717, 39-51.	2.6	85
40	Insights into information contained in multiplicative scatter correction parameters and the potential for estimating particle size from these parameters. <i>Analytica Chimica Acta</i> , 2012, 746, 37-46.	2.6	15
41	Development of NIRS method for quality control of drug combination artesunate-azithromycin for the treatment of severe malaria. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 67-68, 10-15.	1.4	6
42	Neural network and principal component regression in non-destructive soluble solids content assessment: a comparison. <i>Journal of Zhejiang University: Science B</i> , 2012, 13, 145-151.	1.3	33
43	Disproportionation of the calcium salt of atorvastatin in the presence of acidic excipients. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 82, 410-416.	2.0	32
44	Quality by design approach in the optimization of the spray-drying process. <i>Pharmaceutical Development and Technology</i> , 2012, 17, 389-397.	1.1	50
45	The Effects of Spectral Pretreatments on Chemometric Analyses of Soil Profiles Using Laboratory Imaging Spectroscopy. <i>Applied and Environmental Soil Science</i> , 2012, 2012, 1-12.	0.8	69
46	Depth profiling of porcine adipose tissue by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 482-489.	1.2	55
47	Interpreting Analytical Chemistry Data: Recent Advances in Curve Resolution with the Aid of Chemometrics. <i>Analytical Letters</i> , 2012, 45, 933-948.	1.0	6
48	High-throughput analysis of the plasmid bioproduction process in <i>Escherichia coli</i> by FTIR spectroscopy. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2279-2285.	1.7	27
49	Significance of the structure of data in partial least squares regression predictions involving both natural and human experimental design. <i>Journal of Chemometrics</i> , 2012, 26, 487-495.	0.7	5
50	Process analytical technology: a critical view of the chemometricians. <i>Journal of Chemometrics</i> , 2012, 26, 299-310.	0.7	93
51	The effect of different gloss levels on in-line monitoring of the thickness of printed layers by NIR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 573-583.	1.9	8
52	Diversity of spore-forming bacteria and identification of <i>Bacillus amyloliquefaciens</i> as a species frequently associated with the ropy spoilage of bread. <i>International Journal of Food Microbiology</i> , 2012, 156, 278-285.	2.1	67
53	Discrimination of <i>Radix Isatidis</i> and <i>Rhizoma et Radix Baphicacanthis Cusia</i> samples by near infrared spectroscopy with the aid of chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 252-258.	2.0	28
54	THz spectroscopy: An emerging technology for pharmaceutical development and pharmaceutical Process Analytical Technology (PAT) applications. <i>Journal of Molecular Structure</i> , 2012, 1020, 112-120.	1.8	31

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55	Automatic nematode detection in cod fillets (<i>Gadus morhua</i> L.) by hyperspectral imaging. <i>Journal of Food Engineering</i> , 2012, 111, 675-681.	2.7	63
56	Role of Excipients on Solid-State Properties of Piroxicam During Processing. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 1202-1211.	1.6	13
57	Evaluation of different validation strategies and long term effects in NIR calibration models. <i>Food Chemistry</i> , 2013, 141, 2639-2648.	4.2	15
59	Determination of protein, total carbohydrates and crude fat contents of foxtail millet using effective wavelengths in NIR spectroscopy. <i>Journal of Cereal Science</i> , 2013, 58, 241-247.	1.8	41
60	Insights into Drug Precipitation Kinetics during In Vitro Digestion of a Lipid-Based Drug Delivery System Using In-Line Raman Spectroscopy and Mathematical Modeling. <i>Pharmaceutical Research</i> , 2013, 30, 3114-3130.	1.7	52
61	Breaking with trends in pre-processing?. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 50, 96-106.	5.8	367
62	A case study of real-time monitoring of solid-state phase transformations in acoustically levitated particles using near infrared and Raman spectroscopy. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 48, 97-103.	1.9	22
63	Classification of pig fat samples from different subcutaneous layers by means of fast and non-destructive analytical techniques. <i>Food Research International</i> , 2013, 52, 185-197.	2.9	26
64	Mixture models for two-dimensional baseline correction, applied to artifact elimination in time-resolved spectroscopy. <i>Analytica Chimica Acta</i> , 2013, 771, 7-13.	2.6	18
65	Near-infrared hyperspectral imaging in tandem with partial least squares regression and genetic algorithm for non-destructive determination and visualization of <i>Pseudomonas</i> loads in chicken fillets. <i>Talanta</i> , 2013, 109, 74-83.	2.9	162
66	A rapid and non-invasive method for authenticating the origin of pistachio samples by NIR spectroscopy and chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 121, 90-99.	1.8	81
67	Prediction of soil organic carbon for different levels of soil moisture using Vis-NIR spectroscopy. <i>Geoderma</i> , 2013, 199, 37-42.	2.3	280
68	Multivariate Image Regression for Quality Control of Natural Fiber Composites. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 12426-12436.	1.8	8
69	Rapid determination of <i>Panax ginseng</i> by near-infrared spectroscopy. <i>Analytical Methods</i> , 2013, 5, 6715.	1.3	13
70	Microbeam-irradiated tumour tissue possesses a different infrared absorbance profile compared to broad beam and sham-irradiated tissue. <i>International Journal of Radiation Biology</i> , 2013, 89, 79-87.	1.0	9
71	Feasibility study of near infrared spectroscopy with variable selection for non-destructive determination of quality parameters in shell-intact cottonseed. <i>Industrial Crops and Products</i> , 2013, 43, 654-660.	2.5	34
72	Bootstrap based confidence limits in principal component analysis – A case study. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 120, 97-105.	1.8	64
73	Comparative study of non-invasive monitoring via infrared spectroscopy for mammalian cell cultivations. <i>Journal of Biotechnology</i> , 2013, 168, 636-645.	1.9	50

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74	Molecular structure of large-scale extracted β -glucan from barley and oat: Identification of a significantly changed block structure in a high β -glucan barley mutant. Food Chemistry, 2013, 136, 130-138.	4.2	55
75	Evaluation of common pre-processing approaches for visible (VIS) and shortwave near infrared (SWNIR) spectroscopy in soluble solids content (SSC) assessment. Biosystems Engineering, 2013, 115, 82-88.	1.9	29
76	Monitoring spinach shelf-life with hyperspectral image through packaging films. Journal of Food Engineering, 2013, 119, 353-361.	2.7	37
77	Development and validation of a chemometric method for direct determination of hydrochlorothiazide in pharmaceutical samples by diffuse reflectance near infrared spectroscopy. Microchemical Journal, 2013, 109, 158-164.	2.3	52
78	Towards Better Process Understanding: Chemometrics and Multivariate Measurements in Manufacturing of Solid Dosage Forms. Journal of Pharmaceutical Sciences, 2013, 102, 1385-1403.	1.6	38
79	Measurement of Active Content in Escitalopram Tablets by a Near-Infrared Transmission Spectroscopy Model that Encompasses Batch Variability. Journal of Pharmaceutical Sciences, 2013, 102, 1268-1280.	1.6	7
80	Rapid Insight into Heating-Induced Phase Transformations in the Solid State of the Calcium Salt of Atorvastatin Using Multivariate Data Analysis. Pharmaceutical Research, 2013, 30, 826-835.	1.7	17
81	Chemometrics and in-line near infrared spectroscopic monitoring of a biopharmaceutical Chinese hamster ovary cell culture: Prediction of multiple cultivation variables. Talanta, 2013, 111, 28-38.	2.9	67
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84	Recursive Wavelength-Selection Strategy to Update Near-Infrared Spectroscopy Model with an Industrial Application. Industrial & Engineering Chemistry Research, 2013, 52, 7886-7895.	1.8	29
85	Wide area coverage Raman spectroscopy for reliable quantitative analysis and its applications. Analyst, The, 2013, 138, 3335.	1.7	54
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89	Examination of the quality of spinach leaves using hyperspectral imaging. Postharvest Biology and Technology, 2013, 85, 8-17.	2.9	53
90	In-line quantification of two active ingredients in a batch blending process by near-infrared spectroscopy: Influence of physical presentation of the sample. International Journal of Pharmaceutics, 2013, 451, 67-75.	2.6	22
91	In-Line Monitoring of the Thickness of Printed Layers by NIR Spectroscopy: Elimination of the Effect of the Varnish Formulation on the Prediction of the Coating Weight. Industrial & Engineering Chemistry Research, 2013, 52, 17735-17743.	1.8	5

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92	Optimizing Savitzky-Golay Parameters for Improving Spectral Resolution and Quantification in Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2013, 67, 892-902.	1.2	186
93	Hyperspectral imaging system to discern malignant and benign canine mammary tumors. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
94	Pre-Processing Influence on Identification of Optimal Path Length for NIR Analysis of Tea Polyphenols. <i>Advanced Materials Research</i> , 2013, 791-793, 265-268.	0.3	0
95	Quantification of soluble solids in reconstituted aÃŠaÃŠ-(<i>Euterpe oleracea</i> Mart.) pulp using near infrared spectroscopy. <i>International Journal of Food Science and Technology</i> , 2013, 48, 2514-2520.	1.3	2
96	Fat Globule Size Effect on Visible and Shortwave near Infrared Spectra of Milk. <i>Journal of Near Infrared Spectroscopy</i> , 2013, 21, 435-440.	0.8	28
97	Full Correction of Scattering Effects by Using the Radiative Transfer Theory for Improved Quantitative Analysis of Absorbing Species in Suspensions. <i>Applied Spectroscopy</i> , 2013, 67, 526-535.	1.2	7
98	The Influence of Fiber-Probe Accessories Application on the Results of Near-Infrared (NIR) Measurements. <i>Applied Spectroscopy</i> , 2013, 67, 1401-1407.	1.2	10
99	Prediction of Soil Organic Carbon at the European Scale by Visible and Near InfraRed Reflectance Spectroscopy. <i>PLoS ONE</i> , 2013, 8, e66409.	1.1	295
100	Fat and Moisture Content in Chinese Fried Bread Sticks: Assessment and Rapid Near-Infrared Spectroscopic Method Development. <i>Journal of Spectroscopy</i> , 2013, 2013, 1-7.	0.6	8
101	The Combined Optimization of Savitzky-Golay Smoothing and Multiplicative Scatter Correction for FT-NIR PLS Models. <i>ISRN Spectroscopy</i> , 2013, 2013, 1-9.	0.9	54
102	Transferability of a Visible and Near-Infrared Model for Soil Organic Matter Estimation in Riparian Landscapes. <i>Remote Sensing</i> , 2014, 6, 4305-4322.	1.8	34
103	Analysis for Soluble Solid Contents in Pineapples using NIR Spectroscopy. <i>Jurnal Teknologi (Sciences) Tj ETQq1 1 0.784314 rgBT /Ove</i>	0.3	2
104	Influence of composition and roughness on the pigment mapping of paintings using mid-infrared fiberoptics reflectance spectroscopy (mid-IR FORS) and multivariate calibration. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6735-6747.	1.9	15
105	Influence of pre-processing and distance on spectral classification: A simulation study. <i>Vibrational Spectroscopy</i> , 2014, 74, 110-119.	1.2	4
106	Prediction model for amylose content of Malaysian rice grains via visible-shortwave NIR spectroscopy. , 2014, , .		0
107	In situ near infrared spectroscopy monitoring of cyprosin production by recombinant <i>Saccharomyces cerevisiae</i> strains. <i>Journal of Biotechnology</i> , 2014, 188, 148-157.	1.9	17
108	Noninvasive glucose level determination using diffuse reflectance near infrared spectroscopy and chemometrics analysis based on in vitro sample and human skin. , 2014, , .		6
109	Near Infrared Method Development for a Continuous Manufacturing Blending Process. <i>Journal of Pharmaceutical Innovation</i> , 2014, 9, 291-301.	1.1	41

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110	Simultaneous UV Imaging and Raman Spectroscopy for the Measurement of Solvent-Mediated Phase Transformations During Dissolution Testing. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 1149-1156.	1.6	38
111	Surface-enhanced Raman spectral biomarkers correlate with Ankle Brachial Index and characterize leg muscle biochemical composition of patients with peripheral arterial disease. <i>Physiological Reports</i> , 2014, 2, e12148.	0.7	9
112	Origin of the responsivity characteristics of Au/ZnO/MgZnO and Au/MgZnO/ZnO structured ultraviolet photodetectors. <i>Applied Physics Letters</i> , 2014, 105, 043505.	1.5	17
113	Major Issues of Diffuse Reflectance NIR Spectroscopy in the Specific Context of Soil Carbon Content Estimation. <i>Advances in Agronomy</i> , 2014, 123, 145-175.	2.4	30
114	Quantitative Analysis of <i>Panax ginseng</i> by FT-NIR Spectroscopy. <i>Journal of Analytical Methods in Chemistry</i> , 2014, 2014, 1-6.	0.7	11
115	Interference correction by extracting the information of interference dominant regions: Application to near-infrared spectra. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 129, 542-550.	2.0	8
116	Performance evaluation of preprocessing techniques utilizing expert information in multivariate calibration. <i>Talanta</i> , 2014, 121, 105-112.	2.9	21
117	Optimizing the models for rapid determination of chlorogenic acid, scopoletin and rutin in plant samples by near-infrared diffuse reflectance spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 711-715.	2.0	11
118	Hyperspectral imaging based on diffused laser light for prediction of astaxanthin coating concentration. <i>Machine Vision and Applications</i> , 2014, 25, 327-343.	1.7	5
119	Recent Advances in Wavelength Selection Techniques for Hyperspectral Image Processing in the Food Industry. <i>Food and Bioprocess Technology</i> , 2014, 7, 307-323.	2.6	295
120	Rapid assessment of coniferous biomass lignin-carbohydrates with near-infrared spectroscopy. <i>Wood Science and Technology</i> , 2014, 48, 109-122.	1.4	33
121	Recent developments of hyperspectral imaging systems and their applications in detecting quality attributes of red meats: A review. <i>Journal of Food Engineering</i> , 2014, 132, 1-13.	2.7	138
122	Moving from recipe-driven to measurement-based cleaning procedures: Monitoring the Cleaning-In-Place process of whey filtration units by ultraviolet spectroscopy and chemometrics. <i>Journal of Food Engineering</i> , 2014, 126, 82-88.	2.7	14
123	Prediction of soil organic carbon content by diffuse reflectance spectroscopy using a local partial least square regression approach. <i>Soil Biology and Biochemistry</i> , 2014, 68, 337-347.	4.2	218
124	Quantification of the enantiomeric excess of two APIs by means of near infrared spectroscopy and chemometrics. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 133, 149-156.	1.8	11
125	Monitoring an enzyme purification process using on-line and in-line NIR measurements. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 132, 30-38.	1.8	7
126	Non-destructive and rapid determination of TVB-N content for freshness evaluation of grass carp (<i>Ctenopharyngodon idella</i>) by hyperspectral imaging. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 21, 179-187.	2.7	107
127	Spectral Spatial Classification of Hyperspectral Images Using Wavelets and Extended Morphological Profiles. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1177-1185.	2.3	74

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128	Visible/near-infrared hyperspectral imaging prediction of textural firmness of grass carp (<i>Ctenopharyngodon idella</i>) as affected by frozen storage. <i>Food Research International</i> , 2014, 56, 190-198.	2.9	61
129	Simultaneous data pre-processing and SVM classification model selection based on a parallel genetic algorithm applied to spectroscopic data of olive oils. <i>Food Chemistry</i> , 2014, 148, 124-130.	4.2	104
130	Strategies for Selecting the Calibration Set in Pharmaceutical Near Infrared Spectroscopy Analysis. A Comparative Study. <i>Journal of Pharmaceutical Innovation</i> , 2014, 9, 272-281.	1.1	11
131	Chemical imaging and solid state analysis at compact surfaces using UV imaging. <i>International Journal of Pharmaceutics</i> , 2014, 477, 527-535.	2.6	16
132	Vis-NIR wavelength selection for non-destructive discriminant analysis of breed screening of transgenic sugarcane. <i>Analytical Methods</i> , 2014, 6, 8810-8816.	1.3	67
133	Pre-processing in vibrational spectroscopy "when, why and how". <i>Analytical Methods</i> , 2014, 6, 7124-7129.	1.3	91
134	Direct determination of tannins in <i>Acacia mearnsii</i> bark using near-infrared spectroscopy. <i>Analytical Methods</i> , 2014, 6, 8299-8305.	1.3	25
135	Online Monitoring of the Solvent and Absorbed Acid Gas Concentration in a CO ₂ Capture Process Using Monoethanolamine. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 5515-5523.	1.8	23
136	Prediction of total nitrogen in cropland soil at different levels of soil moisture with Vis/NIR spectroscopy. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2014, 64, 267-281.	0.3	10
137	Recursive weighted partial least squares (rPLS): an efficient variable selection method using PLS. <i>Journal of Chemometrics</i> , 2014, 28, 439-447.	0.7	71
138	Near-infrared spectroscopy and hyperspectral imaging: non-destructive analysis of biological materials. <i>Chemical Society Reviews</i> , 2014, 43, 8200-8214.	18.7	552
139	Measurement of the concentration of nutrients in grapevine petioles by attenuated total reflectance Fourier transform infrared spectroscopy and chemometrics. <i>Australian Journal of Grape and Wine Research</i> , 2014, 20, 299-309.	1.0	12
140	Near-Infrared and Fourier Transform Infrared Chemometric Methods for the Quantification of Crystalline Tacrolimus from Sustained-Release Amorphous Solid Dispersion. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2376-2385.	1.6	18
141	Potential of Near-Infrared Spectroscopy for Measurement of Heavy Metals in Soil as Affected by Calibration Set Size. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	1.1	33
142	Quantitative monitoring of yeast fermentation using Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4911-4919.	1.9	41
143	Forecast of Apple Internal Quality Indices at Harvest and During Storage by VIS-NIR Spectroscopy. <i>Food and Bioprocess Technology</i> , 2014, 7, 2951-2961.	2.6	45
144	Comparison of Visible and Long-wave Near-Infrared Hyperspectral Imaging for Colour Measurement of Grass Carp (<i>Ctenopharyngodon idella</i>). <i>Food and Bioprocess Technology</i> , 2014, 7, 3109-3120.	2.6	38
145	Fast Determination of the Composition of Pretreated Sugarcane Bagasse Using Near-Infrared Spectroscopy. <i>Bioenergy Research</i> , 2014, 7, 1441-1453.	2.2	8

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146	Robust multicomponent IR-to-concentration model regression. <i>Chemical Engineering Science</i> , 2014, 116, 77-90.	1.9	14
147	Early on-line classification of beef carcasses based on ultimate pH by near infrared spectroscopy. <i>Meat Science</i> , 2014, 96, 862-869.	2.7	32
148	Determination of fat and total protein content in milk using conventional digital imaging. <i>Talanta</i> , 2014, 121, 144-152.	2.9	47
149	In-line monitoring of thermal degradation of PHA during melt-processing by Near-Infrared spectroscopy. <i>New Biotechnology</i> , 2014, 31, 357-363.	2.4	31
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1372	Deconstructing the Iron Boomerang – Quantitative Predictions of Hematite, Ochreous, and Vitreous Goethite Mixtures. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 381.	0.8	0
1373	Estimation of grain quality parameters in rice for high-throughput screening with near-infrared spectroscopy and deep learning. <i>Cereal Chemistry</i> , 2022, 99, 907-919.	1.1	5
1374	Estimating Forest Soil Properties for Humus Assessment – Is Vis-NIR the Way to Go?. <i>Remote Sensing</i> , 2022, 14, 1368.	1.8	6
1375	Identification of Soil Arsenic Contamination in Rice Paddy Field Based on Hyperspectral Reflectance Approach. <i>Soil Systems</i> , 2022, 6, 30.	1.0	11
1376	Analytical Chemistry Strategies in the Use of Miniaturised NIR Instruments: An Overview. <i>Critical Reviews in Analytical Chemistry</i> , 2024, 54, 11-43.	1.8	19
1377	Developing Hyperspectral Indices for Assessing Seasonal Variations in the Ratio of Chlorophyll to Carotenoid in Deciduous Forests. <i>Remote Sensing</i> , 2022, 14, 1324.	1.8	11
1378	Recycling-oriented characterization of PET waste stream by SWIR hyperspectral imaging and variable selection methods. <i>Detritus</i> , 2022, , 42-49.	0.4	5
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1381	A review of visible and near-infrared (Vis-NIR) spectroscopy application in plant stress detection. <i>Sensors and Actuators A: Physical</i> , 2022, 338, 113468.	2.0	49
1382	Evaluation of a combination of NIR micro-spectrometers to predict chemical properties of sugarcane forage using a multi-block approach. <i>Biosystems Engineering</i> , 2022, 217, 18-25.	1.9	9
1383	Progress in infrared spectroscopy as an efficient tool for predicting protein secondary structure. <i>International Journal of Biological Macromolecules</i> , 2022, 206, 175-187.	3.6	64
1384	Exploring the potential of hyperspectral imaging to detect Esca disease complex in asymptomatic grapevine leaves. <i>Computers and Electronics in Agriculture</i> , 2022, 196, 106863.	3.7	8
1385	Near-infrared spectroscopy to estimate the chemical element concentration in soils and sediments in a rural catchment. <i>Catena</i> , 2022, 213, 106145.	2.2	7
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1388	Rapid quantification of alkaloids, sugar and yield of tobacco (<i>Nicotiana tabacum</i> L.) varieties by using Vis-NIR-SWIR spectroradiometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 274, 121082.	2.0	13

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1390	Application of Fourier transform mid-infrared photoacoustic spectroscopy for rapid assessment of phosphorus availability in digestates and digestate-amended soils. <i>Science of the Total Environment</i> , 2022, 832, 155040.	3.9	4
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1399	Potential of NIRS Technology for the Determination of Cannabinoid Content in Industrial Hemp (<i>Cannabis sativa</i> L.). <i>Agronomy</i> , 2022, 12, 938.	1.3	8
1400	Hyperspectral imaging for classification of bulk grain samples with deep convolutional neural networks. <i>Journal of Near Infrared Spectroscopy</i> , 2022, 30, 107-121.	0.8	3
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1417	Hyperspectral monitoring of soil urease activity under different water regulation. <i>Plant and Soil</i> , 2022, 477, 779-792.	1.8	8
1418	ATR-FTIR spectroscopy combined with machine learning for classification of PVA/PVP blends in low concentration. <i>Vibrational Spectroscopy</i> , 2022, 120, 103378.	1.2	24
1419	Identification of geographical origin and different parts of <i>Wolfiporia cocos</i> from Yunnan in China using PLS-DA and ResNet based on FT-NIR. <i>Phytochemical Analysis</i> , 2022, , .	1.2	4
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1421	Green and sustainable technologies for the decontamination of fungi and mycotoxins in rice: A review. <i>Trends in Food Science and Technology</i> , 2022, 124, 278-295.	7.8	25
1422	Country of origin label monitoring of musky and common octopuses (<i>Eledone</i> spp. and <i>Octopus</i>) Tj ETQq1 1 0.784314 rgBT /Overloc	2.8	9
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1425	Prediction and visualization of fat content in polythene-packed meat using near-infrared hyperspectral imaging and chemometrics. <i>Journal of Food Composition and Analysis</i> , 2022, 111, 104633.	1.9	9
1426	An impact analysis of pre-processing techniques in spectroscopy data to classify insect-damaged in soybean plants with machine and deep learning methods. <i>Infrared Physics and Technology</i> , 2022, 123, 104203.	1.3	4
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1429	A generalized image analytical algorithm for investigating tablet disintegration. <i>International Journal of Pharmaceutics</i> , 2022, 623, 121847.	2.6	2
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1433	Screening method for the rapid detection of diethylene glycol in beer based on chemometrics and portable near-infrared spectroscopy. <i>Food Chemistry</i> , 2022, 391, 133258.	4.2	3
1434	Fourier transform near infrared spectroscopy as a tool to predict spawning status in Alaskan fishes with variable reproductive strategies. <i>Journal of Near Infrared Spectroscopy</i> , 2022, 30, 179-188.	0.8	1
1435	Combination of Hyperspectral and Machine Learning to Invert Soil Electrical Conductivity. <i>Remote Sensing</i> , 2022, 14, 2602.	1.8	11
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1441	Dual-spectrum online monitoring of puerarin and total flavonoids contents during the extraction process of <i>Pueraria lobata</i> . <i>Talanta</i> , 2022, 248, 123608.	2.9	6
1442	Comparative evaluation of miniaturized and conventional NIR spectrophotometer for estimation of fatty acids in cheeses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 279, 121433.	2.0	6
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1450	Chemometric and sensometric techniques in enological data analysis. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 10995-11009.	5.4	9
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1461	Detection and quantification of adulteration in turmeric by spectroscopy coupled with chemometrics. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2022, 17, 221-230.	0.5	1
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1463	Recent advances in the application of Raman spectroscopy for fish quality and safety analysis. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2022, 21, 3647-3672.	5.9	7
1464	Estimation of the sensory properties of black tea samples using non-destructive near-infrared spectroscopy sensors. <i>Food Control</i> , 2022, 142, 109260.	2.8	10
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1470	Identification of <i>Guiboutia</i> species by NIR-HSI spectroscopy. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
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1473	Evaluation of Vis-NIR preprocessing combined with PLS regression for estimation soil organic carbon, cation exchange capacity and clay from eastern Croatia. <i>Geoderma Regional</i> , 2022, 30, e00558.	0.9	9
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