Critical review of chemometric indicators commonly used prediction of soil attributes by NIR spectroscopy

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Citation Report

#	Article	IF	Citations
1	Application of Infrared Photoacoustic Spectroscopy in Soil Analysis. Applied Spectroscopy Reviews, 2011, 46, 405-422.	3.4	51
2	Multivariate data analysis applied to spectroscopy: Potential application to juice and fruit quality. Food Research International, 2011, 44, 1888-1896.	2.9	168
3	Comparison and detection of total and available soil carbon fractions using visible/near infrared diffuse reflectance spectroscopy. Geoderma, 2011, 164, 22-32.	2.3	63
4	Peak functions for modeling high resolution soil profile data. Geoderma, 2011, 166, 74-83.	2.3	29
5	Near-infrared (NIR) and mid-infrared (MIR) spectroscopic techniques for assessing the amount of carbon stock in soils â€" Critical review and research perspectives. Soil Biology and Biochemistry, 2011, 43, 1398-1410.	4.2	374
6	Quantitative analysis of minerals and electric conductivity of red grape homogenates by near infrared reflectance spectroscopy. Computers and Electronics in Agriculture, 2011, 77, 81-85.	3.7	42
7	Determination of Soil Organic Matter and Carbon Fractions in Forest Top Soils using Spectral Data Acquired from Visible-Near Infrared Hyperspectral Images. Soil Science Society of America Journal, 2012, 76, 586-596.	1.2	25
8	Rapid Prediction of the Lignocellulosic Compounds of Sugarcane Biomass by near Infrared Reflectance Spectroscopy: Comparing Classical and Independent Cross-Validation. Journal of Near Infrared Spectroscopy, 2012, 20, 371-385.	0.8	14
9	Development and validation of NIR model using low-concentration calibration range: rapid analysis of Lonicera japonica solution in ethanol precipitation process. Analytical Methods, 2012, 4, 1084.	1.3	18
10	Spectral fingerprinting of soil organic matter composition. Organic Geochemistry, 2012, 46, 127-136.	0.9	34
11	Airborne hyperspectral imaging of spatial soil organic carbon heterogeneity at the field-scale. Geoderma, 2012, 175-176, 21-28.	2.3	69
12	Optimising Sample Preparation and near Infrared Spectra Measurements of Soil Samples to Calibrate Organic Carbon and Total Nitrogen Content. Journal of Near Infrared Spectroscopy, 2012, 20, 695-706.	0.8	11
13	Soil total carbon analysis in Hawaiian soils with visible, near-infrared and mid-infrared diffuse reflectance spectroscopy. Geoderma, 2012, 189-190, 312-320.	2.3	90
14	Effects of Subsetting by Carbon Content, Soil Order, and Spectral Classification on Prediction of Soil Total Carbon with Diffuse Reflectance Spectroscopy. Applied and Environmental Soil Science, 2012, 2012, 1-14.	0.8	29
15	Application of the near-infrared spectroscopy in the pharmaceutical technology. Journal of Pharmaceutical and Biomedical Analysis, 2012, 66, 1-10.	1.4	208
16	Predicting granule size distribution of a fluidized bed spray granulation process by regime based PLS modeling of acoustic emission data. Powder Technology, 2012, 228, 149-157.	2.1	26
17	Effect of Growing Zone and Vintage on the Prediction of Extractable Flavanols in Winegrape Seeds by a FT-NIR Method. Journal of Agricultural and Food Chemistry, 2013, 61, 9076-9088.	2.4	20
18	Evaluation of Fourier transform-NIR spectroscopy for integrated external and internal quality assessment of Valencia oranges. Journal of Food Composition and Analysis, 2013, 31, 144-154.	1.9	62

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19	Application of orthogonal space regression to calibration transfer without standards. Journal of Chemometrics, 2013, 27, 406-413.	0.7	24
20	Laboratory assessment of three quantitative methods for estimating the organic matter content of soils in China based on visible/near-infrared reflectance spectra. Geoderma, 2013, 202-203, 161-170.	2.3	72
21	Laboratory Visâ€"NIR spectroscopy as an alternative method for estimating the soil aggregate stability indexes of Mediterranean soils. Geoderma, 2013, 209-210, 86-97.	2.3	45
22	A novel model selection strategy using total error concept. Talanta, 2013, 107, 248-254.	2.9	24
23	Wide area coverage Raman spectroscopy for reliable quantitative analysis and its applications. Analyst, The, 2013, 138, 3335.	1.7	54
24	Use of Instrumental Acoustic Parameters of Winegrape Seeds as Possible Predictors of Extractable Phenolic Compounds. Journal of Agricultural and Food Chemistry, 2013, 61, 8752-8764.	2.4	7
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26	Regional Regolith Parameter Prediction Using the Proxy of Airborne Gamma Ray Spectrometry. Vadose Zone Journal, 2013, 12, 1-14.	1.3	14
27	Predicting contents of carbon and its component fractions in Australian soils from diffuse reflectance mid-infrared spectra. Soil Research, 2013, 51, 577.	0.6	175
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30	Transferability of a Visible and Near-Infrared Model for Soil Organic Matter Estimation in Riparian Landscapes. Remote Sensing, 2014, 6, 4305-4322.	1.8	34
31	Prediction of essential oil content of oregano by hand-held and Fourier transform NIR spectroscopy. Journal of the Science of Food and Agriculture, 2014, 94, 1397-1402.	1.7	14
32	Prediction of common surface soil properties using airborne and simulated EnMAP hyperspectral images: Impact of soil algorithm and sensor characteristic. , 2014, , .		3
33	Estimation of soil organic carbon from airborne hyperspectral thermal infrared data: a case study. European Journal of Soil Science, 2014, 65, 865-875.	1.8	17
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38	The Performance of Visible, Near-, and Mid-Infrared Reflectance Spectroscopy for Prediction of Soil Physical, Chemical, and Biological Properties. Applied Spectroscopy Reviews, 2014, 49, 139-186.	3.4	559
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41	Visible and near-infrared reflectance spectroscopy—An alternative for monitoring soil contamination by heavy metals. Journal of Hazardous Materials, 2014, 265, 166-176.	6.5	265
42	Near infrared spectroscopy—A tool for chemical properties and organic matter assessment of afforested mine soils. Ecological Engineering, 2014, 62, 115-122.	1.6	20
43	Evaluation of modelling approaches for predicting the spatial distribution of soil organic carbon stocks at the national scale. Geoderma, 2014, 223-225, 97-107.	2.3	111
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53	Titration and Spectroscopic Measurements of Poultry Litter pH Buffering Capacity. Journal of Environmental Quality, 2015, 44, 1283-1292.	1.0	8
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