Wouter Saeys

List of Publications by Year
in descending order

246 papers	10,151 citations	36271 51 h-index	43868 91 g-index
254 all docs	254 docs citations	254 times ranked	7630 citing authors

#	Article	IF	Citations
1	Mechanical damages and packaging methods along the fresh fruit supply chain: A review. Critical Reviews in Food Science and Nutrition, 2023, 63, 10283-10302.	5.4	5
2	Antinutrient to mineral molar ratios of raw common beans and their rapid prediction using near-infrared spectroscopy. Food Chemistry, 2022, 368, 130773.	4.2	10
3	Application of multivariate data analysis for food quality investigations: An example-based review. Food Research International, 2022, 151, 110878.	2.9	22
4	Nondestructive evaluation: detection of external and internal attributes frequently associated with quality and damage. , 2022, , 399-433.		1
5	A fresh look at computer vision for industrial quality control. Quality Engineering, 2022, 34, 152-158.	0.7	6
6	Domain invariant covariate selection (Di-CovSel) for selecting generalized features across domains. Chemometrics and Intelligent Laboratory Systems, 2022, 222, 104499.	1.8	5
7	In ovo sexing of eggs from brown breeds with a gender-specific color using visible-near-infrared spectroscopy: effect of incubation day and measurement configuration. Poultry Science, 2022, 101, 101782.	1.5	17
8	Optical Identification of Fruitfly Species Based on Their Wingbeats Using Convolutional Neural Networks. Frontiers in Plant Science, 2022, 13, .	1.7	4
9	Simulation of light propagation in citrus fruit using monte carlo multi-layered (MCML) method. Journal of Food Engineering, 2021, 291, 110225.	2.7	24
10	Towards in-field insect monitoring based on wingbeat signals: The importance of practice oriented validation strategies. Computers and Electronics in Agriculture, 2021, 180, 105849.	3.7	4
11	Exploring oxygen diffusion and respiration in pome fruit using non-destructive gas in scattering media absorption spectroscopy. Postharvest Biology and Technology, 2021, 173, 111405.	2.9	8
12	Effects of harvest time, fruit size and cultivar on the bulk optical properties of Satsuma mandarin. Postharvest Biology and Technology, 2021, 175, 111412.	2.9	12
13	Bridging the gap between measurement-based and simulation-based metamodels for deriving bulk optical properties from spatially-resolved reflectance profiles: effect of illumination and detection geometry. Optics Express, 2021, 29, 15882.	1.7	7
14	Soil Moisture Levels Affect the Anatomy and Mechanical Properties of Basil Stems (Ocimum basilicum) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	4
15	Prediction of cooking times of freshly harvested common beans and their susceptibility to develop the hard-to-cook defect using near infrared spectroscopy. Journal of Food Engineering, 2021, 298, 110495.	2.7	11
16	Cost-efficient unsupervised sample selection for multivariate calibration. Chemometrics and Intelligent Laboratory Systems, 2021, 215, 104352.	1.8	4
17	Fluorescence-based discrimination of vegetative cells of bacillus strains from Escherichia coli and Saccharomyces cerevisiae. Biosystems Engineering, 2021, 209, 232-245.	1.9	3
18	Evaluation of MEMS NIR Spectrometers for On-Farm Analysis of Raw Milk Composition. Foods, 2021, 10, 2686.	1.9	10

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19	Measurement of optical properties of fruits and vegetables: A review. Postharvest Biology and Technology, 2020, 159, 111003.	2.9	130
20	Microstructure affects light scattering in apples. Postharvest Biology and Technology, 2020, 159, 110996.	2.9	29
21	Green light induces shade avoidance to alter plant morphology and increases biomass production in Ocimum basilicum L.. Scientia Horticulturae, 2020, 261, 109002.	1.7	27
22	Advancements in SPR biosensing technology: An overview of recent trends in smart layers design, multiplexing concepts, continuous monitoring and inÂvivo sensing. Analytica Chimica Acta, 2020, 1104, 10-27.	2.6	83
23	Optimisation of a multi-duct cleaning device for rice combine harvesters utilising CFD and experiments. Biosystems Engineering, 2020, 190, 25-40.	1.9	29
24	In-field detection of Alternaria solani in potato crops using hyperspectral imaging. Computers and Electronics in Agriculture, 2020, 168, 105106.	3.7	38
25	Hyperspectral imaging technology for quality and safety evaluation of horticultural products: A review and celebration of the past 20-year progress. Postharvest Biology and Technology, 2020, 170, 111318.	2.9	123
26	Online crop height and density estimation in grain fields using LiDAR. Biosystems Engineering, 2020, 198, 1-14.	1.9	21
27	Influence of Environmental Factors Light, CO2, Temperature, and Relative Humidity on Stomatal Opening and Development: A Review. Agronomy, 2020, 10, 1975.	1.3	89
28	Online milk composition analysis with an on-farm near-infrared sensor. Computers and Electronics in Agriculture, 2020, 178, 105734.	3.7	20
29	Fast ingredient quantification in multigrain flour mixes using hyperspectral imaging. Food Control, 2020, 118, 107366.	2.8	8
30	Closing the Phenotyping Gap: High Resolution UAV Time Series for Soybean Growth Analysis Provides Objective Data from Field Trials. Remote Sensing, 2020, 12, 1644.	1.8	32
31	Mid-infrared spectroscopic analysis of raw milk to predict the blood nonesterified fatty acid concentrations in dairy cows. Journal of Dairy Science, 2020, 103, 6422-6438.	1.4	12
32	Time- and spatially-resolved spectroscopy to determine the bulk optical properties of â€˜Braeburnâ€™ apples after ripening in shelf life. Postharvest Biology and Technology, 2020, 168, 111233.	2.9	23
33	Milk homogenization monitoring: Fat globule size estimation from scattering spectra of milk. Innovative Food Science and Emerging Technologies, 2020, 60, 102311.	2.7	12
34	Bulk optical properties of citrus tissues and the relationship with quality properties. Postharvest Biology and Technology, 2020, 163, 111127.	2.9	25
35	Robustness control in bilinear modeling based on maximum correntropy. Journal of Chemometrics, 2020, 34, e3215.	0.7	1
36	Multivariate Analysis of Industrial Biorefinery Processes: Strategy for Improved Process Understanding with Case Studies in Fatty Acid Production. Industrial & Engineering Chemistry Research, 2020, 59, 7732-7745.	1.8	8

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37	Application of near-infrared spectroscopy to predict the cooking times of aged common beans (Phaseolus vulgaris L.). Journal of Food Engineering, 2020, 284, 110056.	2.7	15
38	Estimation of Particle Size Distribution from Bulk Scattering Spectra: Validation on Monomodal Suspensions. Analytical Chemistry, 2019, 91, 10040-10048.	3.2	7
39	Canopy height measurements and non‐destructive biomass estimation of <i>Lolium perenne</i> swards using UAV imagery. Grass and Forage Science, 2019, 74, 356-369.	1.2	44
40	Multivariate calibration of spectroscopic sensors for postharvest quality evaluation: A review. Postharvest Biology and Technology, 2019, 158, 110981.	2.9	98
41	Development and testing of a multi-duct cleaning device for tangential-longitudinal flow rice combine harvesters. Biosystems Engineering, 2019, 182, 95-106.	1.9	30
42	Short communication: Validation of a novel milk progesterone-based tool to monitor luteolysis in dairy cows using cost-effective, on-farm measured data. Journal of Dairy Science, 2019, 102, 9458-9462.	1.4	0
43	Convolutional Neural Networks For Heterogeneous Ingredient Discrimination With Hyperspectral Imaging. , 2019, , .		1
44	Validation of a novel milk progesterone-based tool to monitor luteolysis in dairy cows: Timing of the alerts and robustness against missing values. Journal of Dairy Science, 2019, 102, 11491-11503.	1.4	3
45	Short communication: Sensitivity of estrus alerts and relationship with timing of the luteinizing hormone surge. Journal of Dairy Science, 2019, 102, 1775-1779.	1.4	7
46	Evolution of the bulk optical properties of bovine muscles during wet aging. Meat Science, 2018, 136, 50-58.	2.7	11
47	Online warning systems for individual fattening pigs based on their feeding pattern. Biosystems Engineering, 2018, 173, 143-156.	1.9	23
48	Farm-specific economic value of automatic lameness detection systems in dairy cattle: From concepts to operational simulations. Journal of Dairy Science, 2018, 101, 637-648.	1.4	23
49	Method for short-term prediction of milk yield at the quarter level to improve udder health monitoring. Journal of Dairy Science, 2018, 101, 10327-10336.	1.4	19
50	Chemometrics and hyperspectral imaging applied to assessment of chemical, textural and structural characteristics of meat. Meat Science, 2018, 144, 100-109.	2.7	53
51	A novel system for on-farm fertility monitoring based on milk progesterone. Journal of Dairy Science, 2018, 101, 8369-8382.	1.4	18
52	Estimation of particle size distributions from bulk scattering spectra: sensitivity to distribution type and spectral noise. Optics Express, 2018, 26, 15015.	1.7	16
53	Towards an objective evaluation of persistency of Lolium perenne swards using UAV imagery. Euphytica, 2018, 214, 1.	0.6	14
54	Experimental Validation of Linear and Nonlinear MPC on an Articulated Unmanned Ground Vehicle. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2023-2030.	3.7	65

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55	Cross-polarized VNIR hyperspectral reflectance imaging for non-destructive quality evaluation of dried banana slices, drying process monitoring and control. Journal of Food Engineering, 2018, 238, 85-94.	2.7	26
56	On the Comparison of Model-Based and Model-Free Controllers in Guidance, Navigation and Control of Agricultural Vehicles. Studies in Fuzziness and Soft Computing, 2018, , 49-73.	0.6	9
57	Automatically measured variables related to tenderness of hoof placement and weight distribution are valuable indicators for lameness in dairy cows. Applied Animal Behaviour Science, 2017, 189, 13-22.	0.8	11
58	Assessment of bruise volumes in apples using X-ray computed tomography. Postharvest Biology and Technology, 2017, 128, 24-32.	2.9	55
59	Automatic cow lameness detection with a pressure mat: Effects of mat length and sensor resolution. Computers and Electronics in Agriculture, 2017, 134, 172-180.	3.7	14
60	Glare based apple sorting and iterative algorithm for bruise region detection using shortwave infrared hyperspectral imaging. Postharvest Biology and Technology, 2017, 130, 103-115.	2.9	50
61	Determining lamb's lettuce postharvest age based on visible/near-infrared reflectance spectroscopy. Acta Horticulturae, 2017, , 9-16.	0.1	2
62	Measuring colour of vine tomatoes using hyperspectral imaging. Postharvest Biology and Technology, 2017, 129, 79-89.	2.9	32
63	Soil-Bacterium Compatibility Model as a Decision-Making Tool for Soil Bioremediation. Environmental Science & Technology, 2017, 51, 1605-1615.	4.6	16
64	Mathematical characterization of the milk progesterone profile as a leg up to individualized monitoring of reproduction status in dairy cows. Theriogenology, 2017, 103, 44-51.	0.9	18
65	Effect of maturation on the bulk optical properties of apple skin and cortex in the 500–1850 nm wavelength range. Journal of Food Engineering, 2017, 214, 79-89.	2.7	57
66	Competitive inhibition assay for the detection of progesterone in dairy milk using a fiber optic SPR biosensor. Analytica Chimica Acta, 2017, 950, 1-6.	2.6	48
67	Anisotropic light propagation in bovine muscle tissue depends on the initial fiber orientation, muscle type and wavelength. Optics Express, 2017, 25, 22082.	1.7	12
68	Supporting the Development and Adoption of Automatic Lameness Detection Systems in Dairy Cattle: Effect of System Cost and Performance on Potential Market Shares. Animals, 2017, 7, 77.	1.0	8
69	Active Infrared Thermography for Seal Contamination Detection in Heat-Sealed Food Packaging. Journal of Imaging, 2016, 2, 33.	1.7	12
70	Augmented design and analysis of computer experiments: a novel tolerance embedded global optimization approach applied to SWIR hyperspectral illumination design. Optics Express, 2016, 24, 29380.	1.7	3
71	Near-infrared bulk optical properties of goat wound tissue and human serum: consequences for an implantable optical glucose sensor. Journal of Biophotonics, 2016, 9, 1033-1043.	1.1	2
72	Measuring the drinking behaviour of individual pigs housed in group using radio frequency identification (RFID). Animal, 2016, 10, 1557-1566.	1.3	48

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73	Environmental and cow-related factors affect cow locomotion and can cause misclassification in lameness detection systems. Animal, 2016, 10, 1533-1541.	1.3	14
74	A discrete element approach for modelling bendable crop stems. Computers and Electronics in Agriculture, 2016, 124, 141-149.	3.7	35
75	Cross-polarised VNIR hyperspectral reflectance imaging system for agrifood products. Biosystems Engineering, 2016, 151, 152-157.	1.9	9
76	Development of a visco-elastoplastic contact force model and its parameter determination for apples. Postharvest Biology and Technology, 2016, 120, 157-166.	2.9	28
77	Effect of side-wings on draught: The case of Ethiopian ard plough (maresha). Computers and Electronics in Agriculture, 2016, 127, 131-140.	3.7	4
78	Methods to construct feeding visits from RFID registrations of growing-finishing pigs at the feed trough. Computers and Electronics in Agriculture, 2016, 128, 9-19.	3.7	31
79	A mobile, in-situ soil bin test facility to investigate the performance of maresha plough. Biosystems Engineering, 2016, 149, 38-50.	1.9	0
80	An automated imaging BRDF polarimeter for fruit quality inspection. Proceedings of SPIE, 2016, , .	0.8	2
81	Monte Carlo Modeling of Light Transfer in Food. Contemporary Food Engineering, 2016, , 79-109.	0.2	1
82	Spatially Resolved Spectroscopic Technique for Measuring Optical Properties of Food. Contemporary Food Engineering, 2016, , 159-185.	0.2	1
83	Parameter estimation of rheological models for biological materials. AIP Conference Proceedings, 2016, , .	0.3	0
84	Recent Applications of near Infrared Hyperspectral Imaging for Quality Inspection in the Potato Sector. NIR News, 2016, 27, 11-14.	1.6	2
85	Light distribution and thermal effects in the rat brain under optogenetic stimulation. Journal of Biophotonics, 2016, 9, 576-585.	1.1	32
86	Three‐dimensional microscale modelling of CO_2 transport and light propagation in tomato leaves enlightens photosynthesis. Plant, Cell and Environment, 2016, 39, 50-61.	2.8	84
87	Non-destructive detection of blackspot in potatoes by Vis-NIR and SWIR hyperspectral imaging. Food Control, 2016, 70, 229-241.	2.8	96
88	A discrete element approach for modelling the compression of crop stems. Computers and Electronics in Agriculture, 2016, 123, 80-88.	3.7	45
89	Modelling of thermal processes during extrusion based densification of agricultural biomass residues. Applied Energy, 2016, 184, 1316-1331.	5.1	18
90	Real-time pixel based early apple bruise detection using short wave infrared hyperspectral imaging in combination with calibration and glare correction techniques. Food Control, 2016, 66, 215-226.	2.8	86

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91	Detection of red and bicoloured apples on tree with an RGB-D camera. Biosystems Engineering, 2016, 146, 33-44.	1.9	111
92	Estimation of the prior storage period of lamb's lettuce based on visible/near infrared reflectance spectroscopy. Postharvest Biology and Technology, 2016, 113, 95-105.	2.9	10
93	Computational optimization of the configuration of a spatially resolved spectroscopy sensor for milk analysis. Analytica Chimica Acta, 2016, 917, 53-63.	2.6	12
94	Robust Trajectory Tracking Error Model-Based Predictive Control for Unmanned Ground Vehicles. IEEE/ASME Transactions on Mechatronics, 2016, 21, 806-814.	3.7	166
95	Bulk Optical Properties of Potato Flesh in the 500–1900 nm Range. Food and Bioprocess Technology, 2016, 9, 463-470.	2.6	42
96	Selection of the most informative near infrared spectroscopy wavebands for continuous glucose monitoring in human serum. Talanta, 2016, 146, 155-165.	2.9	52
97	Texture Quality Analysis of Rainbow Trout Using Hyperspectral Imaging Method. International Journal of Food Properties, 2016, 19, 974-983.	1.3	10
98	PREDICTING STORED PERIOD AND SHELF LIFE POTENTIAL OF LAMB'S LETTUCE USING VIS/NIR REFLECTANCE SPECTROSCOPY. Acta Horticulturae, 2015, , 207-213.	0.1	2
99	Lameness Detection in Dairy Cows: Part 1. How to Distinguish between Non-Lame and Lame Cows Based on Differences in Locomotion or Behavior. Animals, 2015, 5, 838-860.	1.0	84
100	Estimation of bulk optical properties of turbid media from hyperspectral scatter imaging measurements: metamodeling approach. Optics Express, 2015, 23, 26049.	1.7	10
101	Robust metamodel-based inverse estimation of bulk optical properties of turbid media from spatially resolved diffuse reflectance measurements. Optics Express, 2015, 23, 27880.	1.7	10
102	Lameness Detection in Dairy Cows: Part 2. Use of Sensors to Automatically Register Changes in Locomotion or Behavior. Animals, 2015, 5, 861-885.	1.0	68
103	Dynamic noise corrected hyperspectral radiometric calibration in the SWIR range using a supercontinuum laser. , 2015, , .		1
104	Illumination system development using design and analysis of computer experiments. Proceedings of SPIE, 2015, , .	0.8	1
105	Multivariate calibration of NIR spectroscopic sensors for continuous glucose monitoring. TrAC - Trends in Analytical Chemistry, 2015, 67, 147-158.	5.8	100
106	Effect of ultrasonic homogenization on the Vis/NIR bulk optical properties of milk. Colloids and Surfaces B: Biointerfaces, 2015, 126, 510-519.	2.5	53
107	Robust Tube-Based Decentralized Nonlinear Model Predictive Control of an Autonomous Tractor-Trailer System. IEEE/ASME Transactions on Mechatronics, 2015, 20, 447-456.	3.7	70
108	Multispectral detection of floral buds for automated thinning of pear. Computers and Electronics in Agriculture, 2015, 113, 93-103.	3.7	10

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109	Visible and near-infrared bulk optical properties of raw milk. Journal of Dairy Science, 2015, 98, 6727-6738.	1.4	67
110	Variables of gait inconsistency outperform basic gait variables in detecting mildly lame cows. Livestock Science, 2015, 177, 125-131.	0.6	17
111	Optimal Illumination-Detection Distance and Detector Size for Predicting Braeburn Apple Maturity from Vis/NIR Laser Reflectance Measurements. Food and Bioprocess Technology, 2015, 8, 2123-2136.	2.6	34
112	Detection of seal contamination in heat sealed food packaging based on active infrared thermography. , 2015, , .		0
113	Review: Quantifying animal feeding behaviour with a focus on pigs. Physiology and Behavior, 2015, 138, 37-51.	1.0	59
114	Discrete element modelling of bendable tubes. International Journal of Mechanical Sciences, 2015, 94-95, 75-83.	3.6	11
115	Hazelnut Quality Sorting Using High Dynamic Range Short-Wave Infrared Hyperspectral Imaging. Food and Bioprocess Technology, 2015, 8, 1593-1604.	2.6	39
116	Modeling the propagation of light in realistic tissue structures with MMC-fpf: a meshed Monte Carlo method with free phase function. Optics Express, 2015, 23, 17467.	1.7	66
117	A high contrast 400-2500 nm hyperspectral checkerboard consisting of Acktar material cut with a femto second laser. , 2015, , .		1
118	Towards agrobots: Identification of the yaw dynamics and trajectory tracking of an autonomous tractor. Computers and Electronics in Agriculture, 2015, 115, 78-87.	3.7	60
119	A cross-polarized freeform illumination design for glare reduction in fruit quality inspection. , 2015, , .		0
120	Towards Agrobots: Trajectory Control of an Autonomous Tractor Using Type-2 Fuzzy Logic Controllers. IEEE/ASME Transactions on Mechatronics, 2015, 20, 287-298.	3.7	83
121	Learning in Centralized Nonlinear Model Predictive Control: Application to an Autonomous Tractor-Trailer System. IEEE Transactions on Control Systems Technology, 2015, 23, 197-205.	3.2	92
122	Mechanical analysis of the bending behaviour of plant stems. Biosystems Engineering, 2015, 129, 87-99.	1.9	40
123	DETERMINING STORED PERIOD OF LAMB'S LETTUCE USING VIS/NIR REFLECTANCE SPECTROSCOPY. Acta Horticulturae, 2015, , 187-194.	0.1	1
124	Non-Destructive Evaluation. , 2014, , 363-385.		2
125	Range measurements of a High Frequency Radio Frequency Identification (HF RFID) system for registering feeding patterns of growingâ€"finishing pigs. Computers and Electronics in Agriculture, 2014, 108, 209-220.	3.7	22
126	Ex vivo optical characterization of in vivo grown tissues on dummy sensor implants using double integrating spheres measurement. , 2014, , .		1

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127	Flexible tool for simulating the bulk optical properties of polydisperse spherical particles in an absorbing host: experimental validation. Optics Express, 2014, 22, 20223.	1.7	26
128	Dependent scattering in Intralipid® phantoms in the 600-1850 nm range. Optics Express, 2014, 22, 6086.	1.7	51
129	Optical identification of bumblebee species: Effect of morphology on wingbeat frequency. Computers and Electronics in Agriculture, 2014, 109, 94-100.	3.7	18
130	Measurement of the optical properties of rat brain tissue using contact spatially resolved spectroscopy. Proceedings of SPIE, 2014, , .	0.8	2
131	Early warnings from automatic milk yield monitoring with online synergistic control. Journal of Dairy Science, 2014, 97, 3371-3381.	1.4	24
132	Performance evaluation of preprocessing techniques utilizing expert information in multivariate calibration. Talanta, 2014, 121, 105-112.	2.9	21
133	Binary classification of chalcone derivatives with LDA or KNN based on their antileishmanial activity and molecular descriptors selected using the Successive Projections Algorithm feature-selection technique. European Journal of Pharmaceutical Sciences, 2014, 51, 189-195.	1.9	21
134	Spatially resolved diffuse reflectance in the visible and near-infrared wavelength range for non-destructive quality assessment of 'Braeburn' apples. Postharvest Biology and Technology, 2014, 91, 39-48.	2.9	71
135	Comparison of Visible–Near Infrared and Short Wave Infrared hyperspectral imaging for the evaluation of rainbow trout freshness. Food Research International, 2014, 56, 25-34.	2.9	36
136	Optical properties–microstructure–texture relationships of dried apple slices: Spatially resolved diffuse reflectance spectroscopy as a novel technique for analysis and process control. Innovative Food Science and Emerging Technologies, 2014, 21, 160-168.	2.7	24
137	Contactless and non-destructive differentiation of microstructures of sugar foams by hyperspectral scatter imaging. Innovative Food Science and Emerging Technologies, 2014, 24, 131-137.	2.7	19
138	Site-Specific Plant Condition Monitoring Through Hyperspectral Alternating Least Squares Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3606-3618.	2.3	10
139	Reprint of "Optical properties–microstructure–texture relationships of dried apple slices: Spatially resolved diffuse reflectance spectroscopy as a novel technique for analysis and process control". Innovative Food Science and Emerging Technologies, 2014, 24, 145-153.	2.7	7
140	Vis/NIR spectroscopic measurement of selected soil fertility parameters of Cuban agricultural Cambisols. Biosystems Engineering, 2014, 125, 105-121.	1.9	31
141	Nondestructive Measurement of Fruit and Vegetable Quality. Annual Review of Food Science and Technology, 2014, 5, 285-312.	5.1	151
142	Simulation of grain–straw separation by Discrete Element Modeling with bendable straw particles. Computers and Electronics in Agriculture, 2014, 101, 24-33.	3.7	86
143	Modeling contact interactions between triangulated rounded bodies for the discrete element method. Computer Methods in Applied Mechanics and Engineering, 2014, 277, 219-238.	3.4	26
144	Validation of a High Frequency Radio Frequency Identification (HF RFID) system for registering feeding patterns of growing-finishing pigs. Computers and Electronics in Agriculture, 2014, 102, 10-18.	3.7	69

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145	Distributed nonlinear model predictive control of an autonomous tractor–trailer system. Mechatronics, 2014, 24, 926-933.	2.0	76
146	Understanding near infrared radiation propagation in pig skin reflectance measurements. Innovative Food Science and Emerging Technologies, 2014, 22, 137-146.	2.7	16
147	Bulk compression characteristics of straw and hay. Biosystems Engineering, 2014, 118, 194-202.	1.9	38
148	Nonlinear modeling and identification of an autonomous tractor–trailer system. Computers and Electronics in Agriculture, 2014, 106, 1-10.	3.7	42
149	Using Experimental Data Designs and Multivariate Modeling to Assess the Effect of Glycated Serum Protein Concentration on Glucose Prediction from Near-Infrared Spectra of Human Serum. Applied Spectroscopy, 2014, 68, 398-405.	1.2	10
150	Study of polymer concentration and evaporation time as phase inversion parameters for polysulfone-based SRNF membranes. Journal of Membrane Science, 2013, 442, 196-205.	4.1	170
151	Double integrating sphere measurements for estimating optical properties of pig subcutaneous adipose tissue. Innovative Food Science and Emerging Technologies, 2013, 19, 218-226.	2.7	44
152	Optical coherence tomography visualizes microstructure of apple peel. Postharvest Biology and Technology, 2013, 78, 123-132.	2.9	66
153	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
154	Adaptive Neuro-Fuzzy Control of a Spherical Rolling Robot Using Sliding-Mode-Control-Theory-Based Online Learning Algorithm. IEEE Transactions on Cybernetics, 2013, 43, 170-179.	6.2	154
155	Robust calibrations on reduced sample sets for API content prediction in tablets: Definition of a cost-effective NIR model development strategy. Analytica Chimica Acta, 2013, 761, 62-70.	2.6	15
156	Hyperspectral waveband selection for automatic detection of floral pear buds. Precision Agriculture, 2013, 14, 86-98.	3.1	12
157	Moving horizon estimation and nonlinear model predictive control for autonomous agricultural vehicles. Computers and Electronics in Agriculture, 2013, 98, 25-33.	3.7	66
158	Microstructure–texture relationships of aerated sugar gels: Novel measurement techniques for analysis and control. Innovative Food Science and Emerging Technologies, 2013, 18, 202-211.	2.7	50
159	Optical properties of pig skin epidermis and dermis estimated with double integrating spheres measurements. Innovative Food Science and Emerging Technologies, 2013, 20, 343-349.	2.7	27
160	Exploration of measurement variation of gait variables for early lameness detection in cattle using the GAITWISE. Livestock Science, 2013, 156, 88-95.	0.6	36
161	Feasibility of Vis/NIR spectroscopy for detection of flaws in hazelnut kernels. Journal of Food Engineering, 2013, 118, 1-7.	2.7	37
162	Efficient use of pure component and interferent spectra in multivariate calibration. Analytica Chimica Acta, 2013, 778, 15-23.	2.6	20

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163	Particle swarm optimization and genetic algorithm as feature selection techniques for the <scp>QSAR</scp> modeling of imidazo[1,5â€e]pyrido[3,2â€e]pyrazines, inhibitors of phosphodiesterase 10<scp>A</scp>. Chemical Biology and Drug Design, 2013, 82, 685-696.	1.5	15
164	Spatially resolved spectroscopy for nondestructive quality measurements of Braeburn apples cultivated in sub-fertilization condition. Proceedings of SPIE, 2013, , .	0.8	2
165	Alternating least-squares unmixing for the extraction of sub-pixel information from agricultural areas. , 2013, , .		1
166	Supercontinuum laser based optical characterization of Intralipid® phantoms in the 500-2250 nm range. Optics Express, 2013, 21, 32450.	1.7	103
167	Metamodeling approach for efficient estimation of optical properties of turbid media from spatially resolved diffuse reflectance measurements. Optics Express, 2013, 21, 32630.	1.7	26
168	Apple ripeness detection using hyperspectral laser scatter imaging. , 2013, , .		4
169	Sliding mode type-2 fuzzy control of robotic arm using ellipsoidal membership functions. , 2013, , .		1
170	Modeling and identification of the yaw dynamics of an autonomous tractor. , 2013, , .		13
171	Optical coherence tomography (OCT), space-resolved reflectance spectroscopy (SRS) and time-resolved reflectance spectroscopy (TRS): principles and applications to food microstructures. , 2013, , 132-162.		4
172	Estimation of Pear Ripeness by Hyperspectral Laser Scatter Imaging. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 160-165.	0.4	2
173	High-Speed Adaptive Nonlinear Predictive Control for Autonomous Tractor Navigation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 135-140.	0.4	3
174	Task and Motion Planning for Apple Harvesting Robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 247-252.	0.4	34
175	Advanced Control of Combine Harvesters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1-5.	0.4	7
176	Powerful eyes for agricultural and food robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 218-222.	0.4	1
177	Hyperspectral image deblurring with PCA and total variation. , 2013, , .		16
178	Moving horizon observation for autonomous operation of agricultural vehicles. , 2013, , .		2
179	A flexible tool for simulating the bulk optical properties of polydisperse suspensions of spherical particles in an absorbing host medium. Proceedings of SPIE, 2012, , .	0.8	2
180	Extended adding-doubling method for fluorescent applications. Optics Express, 2012, 20, 17856.	1.7	22

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