

Wouter Saeys

List of Publications by Year in descending order

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Version: 2024-02-01

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	Nondestructive measurement of fruit and vegetable quality by means of NIR spectroscopy: A review. <i>Postharvest Biology and Technology</i> , 2007, 46, 99-118.	2.9	1,718
2	Potential for Onsite and Online Analysis of Pig Manure using Visible and Near Infrared Reflectance Spectroscopy. <i>Biosystems Engineering</i> , 2005, 91, 393-402.	1.9	401
3	NIR Spectroscopy Applications for Internal and External Quality Analysis of Citrus Fruit – A Review. <i>Food and Bioprocess Technology</i> , 2012, 5, 425-444.	2.6	371
4	Postharvest quality of apple predicted by NIR-spectroscopy: Study of the effect of biological variability on spectra and model performance. <i>Postharvest Biology and Technology</i> , 2010, 55, 133-143.	2.9	227
5	Study of polymer concentration and evaporation time as phase inversion parameters for polysulfone-based SRNF membranes. <i>Journal of Membrane Science</i> , 2013, 442, 196-205.	4.1	170
6	Robust Trajectory Tracking Error Model-Based Predictive Control for Unmanned Ground Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 806-814.	3.7	166
7	Adaptive Neuro-Fuzzy Control of a Spherical Rolling Robot Using Sliding-Mode-Control-Theory-Based Online Learning Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2013, 43, 170-179.	6.2	154
8	Nondestructive Measurement of Fruit and Vegetable Quality. <i>Annual Review of Food Science and Technology</i> , 2014, 5, 285-312.	5.1	151
9	Time-resolved and continuous wave NIR reflectance spectroscopy to predict soluble solids content and firmness of pear. <i>Postharvest Biology and Technology</i> , 2008, 47, 68-74.	2.9	145
10	Optical properties of apple skin and flesh in the wavelength range from 350 to 2200 nm. <i>Applied Optics</i> , 2008, 47, 908.	2.1	134
11	Measurement of optical properties of fruits and vegetables: A review. <i>Postharvest Biology and Technology</i> , 2020, 159, 111003.	2.9	130
12	Hyperspectral imaging technology for quality and safety evaluation of horticultural products: A review and celebration of the past 20-year progress. <i>Postharvest Biology and Technology</i> , 2020, 170, 111318.	2.9	123
13	Visible and near-infrared spectroscopic analysis of raw milk for cow health monitoring: Reflectance or transmittance?. <i>Journal of Dairy Science</i> , 2011, 94, 5315-5329.	1.4	115
14	Detection of red and bicoloured apples on tree with an RGB-D camera. <i>Biosystems Engineering</i> , 2016, 146, 33-44.	1.9	111
15	Combination of chemometric tools and image processing for bruise detection on apples. <i>Computers and Electronics in Agriculture</i> , 2007, 56, 1-13.	3.7	109
16	Supercontinuum laser based optical characterization of Intralipid® phantoms in the 500-2250 nm range. <i>Optics Express</i> , 2013, 21, 32450.	1.7	103
17	Multivariate calibration of NIR spectroscopic sensors for continuous glucose monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 67, 147-158.	5.8	100
18	Multivariate calibration of spectroscopic sensors for postharvest quality evaluation: A review. <i>Postharvest Biology and Technology</i> , 2019, 158, 110981.	2.9	98

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19	Application of Visible and Near-Infrared Reflectance Spectroscopy (Vis/NIRS) to Determine Carotenoid Contents in Banana (<i>Musa</i> spp.) Fruit Pulp. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 1742-1751.	2.4	97
20	Estimation of the crop density of small grains using LiDAR sensors. <i>Biosystems Engineering</i> , 2009, 102, 22-30.	1.9	96
21	Non-destructive detection of blackspot in potatoes by Vis-NIR and SWIR hyperspectral imaging. <i>Food Control</i> , 2016, 70, 229-241.	2.8	96
22	Learning in Centralized Nonlinear Model Predictive Control: Application to an Autonomous Tractor-Trailer System. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 197-205.	3.2	92
23	Influence of Environmental Factors Light, CO ₂ , Temperature, and Relative Humidity on Stomatal Opening and Development: A Review. <i>Agronomy</i> , 2020, 10, 1975.	1.3	89
24	Modeling and control of a spherical rolling robot: a decoupled dynamics approach. <i>Robotica</i> , 2012, 30, 671-680.	1.3	86
25	Simulation of grain-staw separation by Discrete Element Modeling with bendable straw particles. <i>Computers and Electronics in Agriculture</i> , 2014, 101, 24-33.	3.7	86
26	Real-time pixel based early apple bruise detection using short wave infrared hyperspectral imaging in combination with calibration and glare correction techniques. <i>Food Control</i> , 2016, 66, 215-226.	2.8	86
27	Lameness Detection in Dairy Cows: Part 1. How to Distinguish between Non-Lame and Lame Cows Based on Differences in Locomotion or Behavior. <i>Animals</i> , 2015, 5, 838-860.	1.0	84
28	Three-dimensional microscale modelling of CO ₂ transport and light propagation in tomato leaves enlightens photosynthesis. <i>Plant, Cell and Environment</i> , 2016, 39, 50-61.	2.8	84
29	Towards Agrobots: Trajectory Control of an Autonomous Tractor Using Type-2 Fuzzy Logic Controllers. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 287-298.	3.7	83
30	Advancements in SPR biosensing technology: An overview of recent trends in smart layers design, multiplexing concepts, continuous monitoring and in-vivo sensing. <i>Analytica Chimica Acta</i> , 2020, 1104, 10-27.	2.6	83
31	Distributed nonlinear model predictive control of an autonomous tractor-trailer system. <i>Mechatronics</i> , 2014, 24, 926-933.	2.0	76
32	Spatially resolved diffuse reflectance in the visible and near-infrared wavelength range for non-destructive quality assessment of Braeburn apples. <i>Postharvest Biology and Technology</i> , 2014, 91, 39-48.	2.9	71
33	Prediction of optimal cooking time for boiled potatoes by hyperspectral imaging. <i>Journal of Food Engineering</i> , 2011, 105, 617-624.	2.7	70
34	Robust Tube-Based Decentralized Nonlinear Model Predictive Control of an Autonomous Tractor-Trailer System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 447-456.	3.7	70
35	Validation of a High Frequency Radio Frequency Identification (HF RFID) system for registering feeding patterns of growing-finishing pigs. <i>Computers and Electronics in Agriculture</i> , 2014, 102, 10-18.	3.7	69
36	Lameness Detection in Dairy Cows: Part 2. Use of Sensors to Automatically Register Changes in Locomotion or Behavior. <i>Animals</i> , 2015, 5, 861-885.	1.0	68

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37	Fuzzy control of the cleaning process on a combine harvester. <i>Biosystems Engineering</i> , 2010, 106, 103-111.	1.9	67
38	Visible and near-infrared bulk optical properties of raw milk. <i>Journal of Dairy Science</i> , 2015, 98, 6727-6738.	1.4	67
39	Optical coherence tomography visualizes microstructure of apple peel. <i>Postharvest Biology and Technology</i> , 2013, 78, 123-132.	2.9	66
40	Moving horizon estimation and nonlinear model predictive control for autonomous agricultural vehicles. <i>Computers and Electronics in Agriculture</i> , 2013, 98, 25-33.	3.7	66
41	Modeling the propagation of light in realistic tissue structures with MMC-fpf: a meshed Monte Carlo method with free phase function. <i>Optics Express</i> , 2015, 23, 17467.	1.7	66
42	Hyperspectral waveband selection for on-line measurement of grain cleanness. <i>Biosystems Engineering</i> , 2009, 104, 1-7.	1.9	65
43	Experimental Validation of Linear and Nonlinear MPC on an Articulated Unmanned Ground Vehicle. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 2023-2030.	3.7	65
44	Near Infrared Spectroscopy for Agricultural Materials: An Instrument Comparison. <i>Journal of Near Infrared Spectroscopy</i> , 2005, 13, 87-97.	0.8	64
45	Non-destructive measurement of firmness and soluble solids content in bell pepper using NIR spectroscopy. <i>Journal of Food Engineering</i> , 2009, 94, 267-273.	2.7	63
46	Evaluation of Fourier transform-NIR spectroscopy for integrated external and internal quality assessment of Valencia oranges. <i>Journal of Food Composition and Analysis</i> , 2013, 31, 144-154.	1.9	62
47	Towards agrobots: Identification of the yaw dynamics and trajectory tracking of an autonomous tractor. <i>Computers and Electronics in Agriculture</i> , 2015, 115, 78-87.	3.7	60
48	Review: Quantifying animal feeding behaviour with a focus on pigs. <i>Physiology and Behavior</i> , 2015, 138, 37-51.	1.0	59
49	Effect of maturation on the bulk optical properties of apple skin and cortex in the 500-1850 nm wavelength range. <i>Journal of Food Engineering</i> , 2017, 214, 79-89.	2.7	57
50	Assessment of bruise volumes in apples using X-ray computed tomography. <i>Postharvest Biology and Technology</i> , 2017, 128, 24-32.	2.9	55
51	Effect of ultrasonic homogenization on the Vis/NIR bulk optical properties of milk. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 510-519.	2.5	53
52	Chemometrics and hyperspectral imaging applied to assessment of chemical, textural and structural characteristics of meat. <i>Meat Science</i> , 2018, 144, 100-109.	2.7	53
53	Selection of the most informative near infrared spectroscopy wavebands for continuous glucose monitoring in human serum. <i>Talanta</i> , 2016, 146, 155-165.	2.9	52
54	Dependent scattering in Intralipid® phantoms in the 600-1850 nm range. <i>Optics Express</i> , 2014, 22, 6086.	1.7	51

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55	Microstructureâ€“texture relationships of aerated sugar gels: Novel measurement techniques for analysis and control. <i>Innovative Food Science and Emerging Technologies</i> , 2013, 18, 202-211.	2.7	50
56	Glare based apple sorting and iterative algorithm for bruise region detection using shortwave infrared hyperspectral imaging. <i>Postharvest Biology and Technology</i> , 2017, 130, 103-115.	2.9	50
57	Mid-infrared spectrometry of milk for dairy metabolomics: A comparison of two sampling techniques and effect of homogenization. <i>Analytica Chimica Acta</i> , 2011, 705, 88-97.	2.6	48
58	Measuring the drinking behaviour of individual pigs housed in group using radio frequency identification (RFID). <i>Animal</i> , 2016, 10, 1557-1566.	1.3	48
59	Competitive inhibition assay for the detection of progesterone in dairy milk using a fiber optic SPR biosensor. <i>Analytica Chimica Acta</i> , 2017, 950, 1-6.	2.6	48
60	Prediction of â€“Nules Clementineâ€™ mandarin susceptibility to rind breakdown disorder using Vis/NIR spectroscopy. <i>Postharvest Biology and Technology</i> , 2012, 74, 1-10.	2.9	46
61	A discrete element approach for modelling the compression of crop stems. <i>Computers and Electronics in Agriculture</i> , 2016, 123, 80-88.	3.7	45
62	Potential applications of functional data analysis in chemometrics. <i>Journal of Chemometrics</i> , 2008, 22, 335-344.	0.7	44
63	Double integrating sphere measurements for estimating optical properties of pig subcutaneous adipose tissue. <i>Innovative Food Science and Emerging Technologies</i> , 2013, 19, 218-226.	2.7	44
64	Canopy height measurements and nonâ€“destructive biomass estimation of <i>Lolium perenne</i> swards using UAV imagery. <i>Grass and Forage Science</i> , 2019, 74, 356-369.	1.2	44
65	High-speed moving horizon estimation based on automatic code generation. , 2012, , .		42
66	Nonlinear modeling and identification of an autonomous tractorâ€“trailer system. <i>Computers and Electronics in Agriculture</i> , 2014, 106, 1-10.	3.7	42
67	Bulk Optical Properties of Potato Flesh in the 500â€“1900Ånm Range. <i>Food and Bioprocess Technology</i> , 2016, 9, 463-470.	2.6	42
68	Potential for On-Site Analysis of Hog Manure Using a Visual and near Infrared Diode Array Reflectance Spectrometer. <i>Journal of Near Infrared Spectroscopy</i> , 2004, 12, 299-309.	0.8	40
69	Increasing Robustness against Changes in the Interferent Structure by Incorporating Prior Information in the Augmented Classical Least-Squares Framework. <i>Analytical Chemistry</i> , 2008, 80, 4951-4959.	3.2	40
70	Mechanical analysis of the bending behaviour of plant stems. <i>Biosystems Engineering</i> , 2015, 129, 87-99.	1.9	40
71	Hazelnut Quality Sorting Using High Dynamic Range Short-Wave Infrared Hyperspectral Imaging. <i>Food and Bioprocess Technology</i> , 2015, 8, 1593-1604.	2.6	39
72	An Automatic Depth Control System for Online Measurement of Spatial Variation in Soil Compaction, Part 1: Sensor Design for Measurement of Frame Height Variation from Soil Surface. <i>Biosystems Engineering</i> , 2004, 89, 139-150.	1.9	38

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73	Bulk compression characteristics of straw and hay. <i>Biosystems Engineering</i> , 2014, 118, 194-202.	1.9	38
74	In-field detection of <i>Alternaria solani</i> in potato crops using hyperspectral imaging. <i>Computers and Electronics in Agriculture</i> , 2020, 168, 105106.	3.7	38
75	Feasibility of Vis/NIR spectroscopy for detection of flaws in hazelnut kernels. <i>Journal of Food Engineering</i> , 2013, 118, 1-7.	2.7	37
76	Optimizing the tuning parameters of least squares support vector machines regression for NIR spectra. <i>Journal of Chemometrics</i> , 2006, 20, 184-192.	0.7	36
77	Exploration of measurement variation of gait variables for early lameness detection in cattle using the GAITWISE. <i>Livestock Science</i> , 2013, 156, 88-95.	0.6	36
78	Comparison of Visible-Near Infrared and Short Wave Infrared hyperspectral imaging for the evaluation of rainbow trout freshness. <i>Food Research International</i> , 2014, 56, 25-34.	2.9	36
79	A discrete element approach for modelling bendable crop stems. <i>Computers and Electronics in Agriculture</i> , 2016, 124, 141-149.	3.7	35
80	Identification of the cleaning process on combine harvesters. Part I: A fuzzy model for prediction of the material other than grain (MOG) content in the grain bin. <i>Biosystems Engineering</i> , 2008, 101, 42-49.	1.9	34
81	Task and Motion Planning for Apple Harvesting Robot. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 247-252.	0.4	34
82	Optimal Illumination-Detection Distance and Detector Size for Predicting Braeburn Apple Maturity from Vis/NIR Laser Reflectance Measurements. <i>Food and Bioprocess Technology</i> , 2015, 8, 2123-2136.	2.6	34
83	Light distribution and thermal effects in the rat brain under optogenetic stimulation. <i>Journal of Biophotonics</i> , 2016, 9, 576-585.	1.1	32
84	Measuring colour of vine tomatoes using hyperspectral imaging. <i>Postharvest Biology and Technology</i> , 2017, 129, 79-89.	2.9	32
85	Closing the Phenotyping Gap: High Resolution UAV Time Series for Soybean Growth Analysis Provides Objective Data from Field Trials. <i>Remote Sensing</i> , 2020, 12, 1644.	1.8	32
86	Vis/NIR spectroscopic measurement of selected soil fertility parameters of Cuban agricultural Cambisols. <i>Biosystems Engineering</i> , 2014, 125, 105-121.	1.9	31
87	Methods to construct feeding visits from RFID registrations of growing-finishing pigs at the feed trough. <i>Computers and Electronics in Agriculture</i> , 2016, 128, 9-19.	3.7	31
88	Development and testing of a multi-duct cleaning device for tangential-longitudinal flow rice combine harvesters. <i>Biosystems Engineering</i> , 2019, 182, 95-106.	1.9	30
89	Fault diagnostic systems for agricultural machinery. <i>Biosystems Engineering</i> , 2010, 106, 26-36.	1.9	29
90	Microstructure affects light scattering in apples. <i>Postharvest Biology and Technology</i> , 2020, 159, 110996.	2.9	29

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91	Optimisation of a multi-duct cleaning device for rice combine harvesters utilising CFD and experiments. <i>Biosystems Engineering</i> , 2020, 190, 25-40.	1.9	29
92	Beer quality screening by FT-IR spectrometry: Impact of measurement strategies, data pre-processings and variable selection algorithms. <i>Journal of Food Engineering</i> , 2011, 106, 188-198.	2.7	28
93	Development of a visco-elastoplastic contact force model and its parameter determination for apples. <i>Postharvest Biology and Technology</i> , 2016, 120, 157-166.	2.9	28
94	Autopilot for a combine harvester. <i>Computers and Electronics in Agriculture</i> , 2008, 63, 57-64.	3.7	27
95	Optical properties of pig skin epidermis and dermis estimated with double integrating spheres measurements. <i>Innovative Food Science and Emerging Technologies</i> , 2013, 20, 343-349.	2.7	27
96	Green light induces shade avoidance to alter plant morphology and increases biomass production in <i>Ocimum basilicum</i> L.. <i>Scientia Horticulturae</i> , 2020, 261, 109002.	1.7	27
97	Metamodeling approach for efficient estimation of optical properties of turbid media from spatially resolved diffuse reflectance measurements. <i>Optics Express</i> , 2013, 21, 32630.	1.7	26
98	Flexible tool for simulating the bulk optical properties of polydisperse spherical particles in an absorbing host: experimental validation. <i>Optics Express</i> , 2014, 22, 20223.	1.7	26
99	Modeling contact interactions between triangulated rounded bodies for the discrete element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 277, 219-238.	3.4	26
100	Cross-polarized VNIR hyperspectral reflectance imaging for non-destructive quality evaluation of dried banana slices, drying process monitoring and control. <i>Journal of Food Engineering</i> , 2018, 238, 85-94.	2.7	26
101	Near infrared reflectance spectroscopy as a tool for the in-line determination of the moisture concentration in extruded semolina pasta. <i>Biosystems Engineering</i> , 2007, 97, 313-321.	1.9	25
102	Bulk optical properties of citrus tissues and the relationship with quality properties. <i>Postharvest Biology and Technology</i> , 2020, 163, 111127.	2.9	25
103	Early warnings from automatic milk yield monitoring with online synergistic control. <i>Journal of Dairy Science</i> , 2014, 97, 3371-3381.	1.4	24
104	Optical propertiesâ€“microstructureâ€“texture relationships of dried apple slices: Spatially resolved diffuse reflectance spectroscopy as a novel technique for analysis and process control. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 21, 160-168.	2.7	24
105	Simulation of light propagation in citrus fruit using monte carlo multi-layered (MCML) method. <i>Journal of Food Engineering</i> , 2021, 291, 110225.	2.7	24
106	Identification of the cleaning process on combine harvesters, Part II: A fuzzy model for prediction of the sieve losses. <i>Biosystems Engineering</i> , 2010, 106, 97-102.	1.9	23
107	Online warning systems for individual fattening pigs based on their feeding pattern. <i>Biosystems Engineering</i> , 2018, 173, 143-156.	1.9	23
108	Farm-specific economic value of automatic lameness detection systems in dairy cattle: From concepts to operational simulations. <i>Journal of Dairy Science</i> , 2018, 101, 637-648.	1.4	23

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109	Time- and spatially-resolved spectroscopy to determine the bulk optical properties of Braeburn™ apples after ripening in shelf life. <i>Postharvest Biology and Technology</i> , 2020, 168, 111233.	2.9	23
110	A genetic input selection methodology for identification of the cleaning process on a combine harvester, Part II: Selection of relevant input variables for identification of material other than grain (MOG) content in the grain bin. <i>Biosystems Engineering</i> , 2007, 98, 297-303.	1.9	22
111	A genetic input selection methodology for identification of the cleaning process on a combine harvester, Part I: Selection of relevant input variables for identification of the sieve losses. <i>Biosystems Engineering</i> , 2007, 98, 166-175.	1.9	22
112	Extended adding-doubling method for fluorescent applications. <i>Optics Express</i> , 2012, 20, 17856.	1.7	22
113	Range measurements of a High Frequency Radio Frequency Identification (HF RFID) system for registering feeding patterns of growing finishing pigs. <i>Computers and Electronics in Agriculture</i> , 2014, 108, 209-220.	3.7	22
114	Application of multivariate data analysis for food quality investigations: An example-based review. <i>Food Research International</i> , 2022, 151, 110878.	2.9	22
115	Performance evaluation of preprocessing techniques utilizing expert information in multivariate calibration. <i>Talanta</i> , 2014, 121, 105-112.	2.9	21
116	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. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 51, 189-195.	1.9	21
117	Online crop height and density estimation in grain fields using LiDAR. <i>Biosystems Engineering</i> , 2020, 198, 1-14.	1.9	21
118	Efficient use of pure component and interferent spectra in multivariate calibration. <i>Analytica Chimica Acta</i> , 2013, 778, 15-23.	2.6	20
119	Online milk composition analysis with an on-farm near-infrared sensor. <i>Computers and Electronics in Agriculture</i> , 2020, 178, 105734.	3.7	20
120	Contactless and non-destructive differentiation of microstructures of sugar foams by hyperspectral scatter imaging. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 24, 131-137.	2.7	19
121	Method for short-term prediction of milk yield at the quarter level to improve udder health monitoring. <i>Journal of Dairy Science</i> , 2018, 101, 10327-10336.	1.4	19
122	Cruise control on a combine harvester using model-based predictive control. <i>Biosystems Engineering</i> , 2008, 99, 47-55.	1.9	18
123	The Importance of Choosing the Right Validation Strategy in Inverse Modelling. <i>Journal of Near Infrared Spectroscopy</i> , 2010, 18, 231-237.	0.8	18
124	Optical identification of bumblebee species: Effect of morphology on wingbeat frequency. <i>Computers and Electronics in Agriculture</i> , 2014, 109, 94-100.	3.7	18
125	Modelling of thermal processes during extrusion based densification of agricultural biomass residues. <i>Applied Energy</i> , 2016, 184, 1316-1331.	5.1	18
126	Mathematical characterization of the milk progesterone profile as a leg up to individualized monitoring of reproduction status in dairy cows. <i>Theriogenology</i> , 2017, 103, 44-51.	0.9	18

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127	A novel system for on-farm fertility monitoring based on milk progesterone. <i>Journal of Dairy Science</i> , 2018, 101, 8369-8382.	1.4	18
128	Comparison of Transflectance and Reflectance to Analyse Hog Manures. <i>Journal of Near Infrared Spectroscopy</i> , 2005, 13, 99-107.	0.8	17
129	Positioning and tuning of viscous damper on flexible structure. <i>Journal of Sound and Vibration</i> , 2007, 304, 845-862.	2.1	17
130	Variables of gait inconsistency outperform basic gait variables in detecting mildly lame cows. <i>Livestock Science</i> , 2015, 177, 125-131.	0.6	17
131	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. <i>Poultry Science</i> , 2022, 101, 101782.	1.5	17
132	Hyperspectral image deblurring with PCA and total variation. , 2013, , .		16
133	Understanding near infrared radiation propagation in pig skin reflectance measurements. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 22, 137-146.	2.7	16
134	Soil-Bacterium Compatibility Model as a Decision-Making Tool for Soil Bioremediation. <i>Environmental Science & Technology</i> , 2017, 51, 1605-1615.	4.6	16
135	Estimation of particle size distributions from bulk scattering spectra: sensitivity to distribution type and spectral noise. <i>Optics Express</i> , 2018, 26, 15015.	1.7	16
136	Robust calibrations on reduced sample sets for API content prediction in tablets: Definition of a cost-effective NIR model development strategy. <i>Analytica Chimica Acta</i> , 2013, 761, 62-70.	2.6	15
137	Particle swarm optimization and genetic algorithm as feature selection techniques for the <sc>QSAR</sc> modeling of imidazo[1,5- ϵ]pyrido[3,2- ϵ]pyrazines, inhibitors of phosphodiesterase 10<sc>A</sc>. <i>Chemical Biology and Drug Design</i> , 2013, 82, 685-696.	1.5	15
138	Application of near-infrared spectroscopy to predict the cooking times of aged common beans (<i>Phaseolus vulgaris</i> L.). <i>Journal of Food Engineering</i> , 2020, 284, 110056.	2.7	15
139	Pixel Selection for Near-Infrared Chemical Imaging (NIR-CI) Discrimination Between Fish and Terrestrial Animal Species in Animal Protein By-Product Meals. <i>Applied Spectroscopy</i> , 2011, 65, 771-781.	1.2	14
140	LiDaR sensing to monitor straw output quality of a combine harvester. <i>Computers and Electronics in Agriculture</i> , 2012, 85, 40-44.	3.7	14
141	Environmental and cow-related factors affect cow locomotion and can cause misclassification in lameness detection systems. <i>Animal</i> , 2016, 10, 1533-1541.	1.3	14
142	Automatic cow lameness detection with a pressure mat: Effects of mat length and sensor resolution. <i>Computers and Electronics in Agriculture</i> , 2017, 134, 172-180.	3.7	14
143	Towards an objective evaluation of persistency of <i>Lolium perenne</i> swards using UAV imagery. <i>Euphytica</i> , 2018, 214, 1.	0.6	14
144	Velocity Control of a Spherical Rolling Robot Using a Grey-PID Type Fuzzy Controller With an Adaptive Step Size. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 863-868.	0.4	13

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145	Modeling and identification of the yaw dynamics of an autonomous tractor. , 2013, , .		13
146	Hyperspectral imaging for textile sorting in the visible“near infrared range. Journal of Spectral Imaging, 0, , .	0.0	13
147	An Automatic Depth Control System for Online Measurement of Spatial Variation in Soil Compaction, Part 2: Modelling of the Depth Control System. Biosystems Engineering, 2004, 89, 267-280.	1.9	12
148	An automatic depth control system for shallow manure injection, Part 1: Modelling of the depth control system. Biosystems Engineering, 2007, 98, 146-154.	1.9	12
149	High-performance flow control for site-specific application of liquid manure. Biosystems Engineering, 2008, 99, 22-34.	1.9	12
150	Scattering Correction by Use of a Priori Information. Applied Spectroscopy, 2010, 64, 795-804.	1.2	12
151	Hyperspectral waveband selection for automatic detection of floral pear buds. Precision Agriculture, 2013, 14, 86-98.	3.1	12
152	Active Infrared Thermography for Seal Contamination Detection in Heat-Sealed Food Packaging. Journal of Imaging, 2016, 2, 33.	1.7	12
153	Computational optimization of the configuration of a spatially resolved spectroscopy sensor for milk analysis. Analytica Chimica Acta, 2016, 917, 53-63.	2.6	12
154	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
155	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
156	Milk homogenization monitoring: Fat globule size estimation from scattering spectra of milk. Innovative Food Science and Emerging Technologies, 2020, 60, 102311.	2.7	12
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