Byoung-Kwan Cho

List of Publications by Year
in descending order

201 papers	4,683 citations	117625 34 h-index	155660 55 g-index
202 all docs	202 docs citations	202 times ranked	3548 citing authors

#	Article	IF	Citations
1	Quantitative detection of benzoyl peroxide in wheat flour using line-scan short-wave infrared hyperspectral imaging. Sensors and Actuators B: Chemical, 2022, 352, 130997.	7.8	18
2	Nondestructive Prediction of Isoflavones and Oligosaccharides in Intact Soybean Seed Using Fourier Transform Near-Infrared (FT-NIR) and Fourier Transform Infrared (FT-IR) Spectroscopic Techniques. Foods, 2022, 11, 232.	4.3	12
3	Deep learning-based system development for black pine bast scale detection. Scientific Reports, 2022, 12, 606.	3.3	15
4	Economic Analysis of an Image-Based Beef Carcass Yield Estimation System in Korea. Animals, 2022, 12, 7.	2.3	0
5	Estimation of Cold Stress, Plant Age, and Number of Leaves in Watermelon Plants Using Image Analysis. Frontiers in Plant Science, 2022, 13, 847225.	3.6	5
6	Analysis of RGB Plant Images to Identify Root Rot Disease in Korean Ginseng Plants Using Deep Learning. Applied Sciences (Switzerland), 2022, 12, 2489.	2.5	8
7	Multispectral Wavebands Selection for the Detection of Potential Foreign Materials in Fresh-Cut Vegetables. Sensors, 2022, 22, 1775.	3.8	8
8	Nondestructive discrimination of seedless from seeded watermelon seeds by using multivariate and deep learning image analysis. Computers and Electronics in Agriculture, 2022, 194, 106799.	7.7	13
9	Detection of fabricated eggs using Fourier transform infrared (FT-IR) spectroscopy coupled with multivariate classification techniques. Infrared Physics and Technology, 2022, 123, 104163.	2.9	9
10	Application of Fourier Transform Infrared Spectroscopy and Multivariate Analysis Methods for the Non-Destructive Evaluation of Phenolics Compounds in Moringa Powder. Agriculture (Switzerland), 2022, 12, 10.	3.1	10
11	Comparative Determination of Phenolic Compounds in Arabidopsis thaliana Leaf Powder under Distinct Stress Conditions Using Fourier-Transform Infrared (FT-IR) and Near-Infrared (FT-NIR) Spectroscopy. Plants, 2022, 11, 836.	3.5	10
12	Short-Wave Infrared Hyperspectral Imaging System for Nondestructive Evaluation of Powdered Food. Journal of Biosystems Engineering, 2022, 47, 223-232.	2.5	2
13	Deep learning feature extraction for image-based beef carcass yield estimation. Biosystems Engineering, 2022, 218, 78-93.	4.3	5
14	LCTF-based multispectral fluorescence imaging: System development and potential for real-time foreign object detection in fresh-cut vegetable processing. Computers and Electronics in Agriculture, 2021, 180, 105912.	7.7	5
15	Determination of protein and glucose of tuber and root flours using NIR and MIR spectroscopy. Infrared Physics and Technology, 2021, 113, 103577.	2.9	14
16	Application of Ohmic–Vacuum Combination Heating for the Processing of Senior-Friendly Food (Multiphase Food): Experimental Studies and Numerical Simulation. Foods, 2021, 10, 138.	4.3	3
17	Economic Analysis of the Use of VCS2000 for Pork Carcass Meat Yield Grading in Korea. Animals, 2021, 11, 1297.	2.3	5
18	Changes in the chemical properties of coir dust with increasing aging time and development of a method for determining moderate aging degree. Horticulture Environment and Biotechnology, 2021, 62, 547-557.	2.1	5

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19	Rapid and Non-Destructive Monitoring of Moisture Content in Livestock Feed Using a Global Hyperspectral Model. Animals, 2021, 11, 1299.	2.3	2
20	Near-Infrared Hyperspectral Imaging (NIR-HSI) for Nondestructive Prediction of Anthocyanins Content in Black Rice Seeds. Applied Sciences (Switzerland), 2021, 11, 4841.	2.5	16
21	Shortwave infrared hyperspectral imaging system coupled with multivariable method for TVB-N measurement in pork. Food Control, 2021, 124, 107854.	5.5	22
22	Review: Application of Artificial Intelligence in Phenomics. Sensors, 2021, 21, 4363.	3.8	31
23	High-Throughput Phenotyping Approach for the Evaluation of Heat Stress in Korean Ginseng (Panax) Tj ETQq1 1 0.784314 rgBT /Over	3.8	15
24	An Overview of Near Infrared Spectroscopy and Its Applications in the Detection of Genetically Modified Organisms. International Journal of Molecular Sciences, 2021, 22, 9940.	4.1	14
25	Quantitative Evaluation of Food-Waste Components in Organic Fertilizer Using Visible–Near-Infrared Hyperspectral Imaging. Applied Sciences (Switzerland), 2021, 11, 8201.	2.5	3
26	Research and Technology Trend Analysis by Big Data-Based Smart Livestock Technology: a Review. Journal of Biosystems Engineering, 2021, 46, 386-398.	2.5	5
27	Raman spectral analysis for non-invasive detection of external and internal parameters of fake eggs. Sensors and Actuators B: Chemical, 2020, 303, 127243.	7.8	21
28	Statistical Analysis for Determining Optimal Sample Size for Living Modified Organism (LMO) Seed Detection. Journal of Crop Science and Biotechnology, 2020, 23, 1-7.	1.5	4
29	Online Application of a Hyperspectral Imaging System for the Sorting of Adulterated Almonds. Applied Sciences (Switzerland), 2020, 10, 6569.	2.5	22
30	Nondestructive measurement of anthocyanin in intact soybean seed using Fourier Transform Near-Infrared (FT-NIR) and Fourier Transform Infrared (FT-IR) spectroscopy. Infrared Physics and Technology, 2020, 111, 103477.	2.9	28
31	Feasibility Study for the Evaluation of Chicken Meat Storage Time Using Surface Acoustic Wave Sensor. Journal of Biosystems Engineering, 2020, 45, 261-271.	2.5	8
32	Non-Targeted Detection of Adulterants in Almond Powder Using Spectroscopic Techniques Combined with Chemometrics. Foods, 2020, 9, 876.	4.3	12
33	Classification of Watermelon Seeds Using Morphological Patterns of X-ray Imaging: A Comparison of Conventional Machine Learning and Deep Learning. Sensors, 2020, 20, 6753.	3.8	25
34	Development of multi-product calibration models of various root and tuber powders by fourier transform near infra-red (FT-NIR) spectroscopy for the quantification of polysaccharide contents. Heliyon, 2020, 6, e05099.	3.2	20
35	Geographical Origin Discrimination of White Rice Based on Image Pixel Size Using Hyperspectral Fluorescence Imaging Analysis. Applied Sciences (Switzerland), 2020, 10, 5794.	2.5	8
36	Hyperspectral Shortwave Infrared Image Analysis for Detection of Adulterants in Almond Powder with One-Class Classification Method. Sensors, 2020, 20, 5855.	3.8	23

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37	Classification of pepper seed quality based on internal structure using X-ray CT imaging. Computers and Electronics in Agriculture, 2020, 179, 105839.	7.7	14
38	Improvement in Purity of Healthy Tomato Seeds Using an Image-Based One-Class Classification Method. Sensors, 2020, 20, 2690.	3.8	12
39	Raman Spectral Analysis for Quality Determination of Grignard Reagent. Applied Sciences (Switzerland), 2020, 10, 3545.	2.5	3
40	Near-Infrared Transmittance Spectral Imaging for Nondestructive Measurement of Internal Disorder in Korean Ginseng. Sensors, 2020, 20, 273.	3.8	6
41	Determination of the viability of retinispora (<i>Hinoki cypress</i>) seeds using shortwave infrared hyperspectral imaging spectroscopy. Journal of Near Infrared Spectroscopy, 2020, 28, 70-80.	1.5	6
42	Determination of Drying Patterns of Radish Slabs under Different Drying Methods Using Hyperspectral Imaging Coupled with Multivariate Analysis. Foods, 2020, 9, 484.	4.3	8
43	Application of Fourier Transform Near-Infrared (FT-NIR) and Fourier Transform Infrared (FT-IR) Spectroscopy Coupled with Wavelength Selection for Fast Discrimination of Similar Color of Tuber Flours. Indonesian Journal of Chemistry, 2020, 20, 680.	0.8	10
44	Discrimination study between carcass yield and meat quality by gender in Korean native cattle (Hanwoo). Asian-Australasian Journal of Animal Sciences, 2020, 33, 1202-1208.	2.4	2
45	Estimation of carcass weight of Hanwoo (Korean native cattle) as a function of body measurements using statistical models and a neural network. Asian-Australasian Journal of Animal Sciences, 2020, 33, 1633-1641.	2.4	10
46	Development of Unmanned Aerial Vehicle Remote Sensing Technology for Abiotic Stress Monitoring of Citrus â€˜Unshiuâ€™ using Multispectral Imaging. Journal of the Korean Society for Nondestructive Testing, 2020, 40, 274-284.	0.2	3
47	First steps to set up a methodology for the citrus yield estimation using a visible/near infrared hyperspectral imaging system. , 2020, , .		0
48	Multispectral Fluorescence Imaging Technique for On-Line Inspection of Fecal Residues on Poultry Carcasses. Sensors, 2019, 19, 3483.	3.8	12
49	Improving Sensitivity in Raman Imaging for Thin Layered and Powdered Food Analysis Utilizing a Reflection Mirror. Sensors, 2019, 19, 2698.	3.8	4
50	Setting up a methodology to distinguish between green oranges and leaves using hyperspectral imaging. Computers and Electronics in Agriculture, 2019, 167, 105070.	7.7	7
51	Statistical and Empirical Determination of the Optimal Sampling Method for Detecting Non-homogeneously Mixed Living Modified Organisms (LMO) Seeds. Journal of Crop Science and Biotechnology, 2019, 22, 299-307.	1.5	0
52	A novel hyperspectral line-scan imaging method for whole surfaces of round shaped agricultural products. Biosystems Engineering, 2019, 188, 57-66.	4.3	13
53	Optimized Multivariate Analysis for the Discrimination of Cucumber Green Mosaic Mottle Virus-Infected Watermelon Seeds Based on Spectral Imaging. Journal of Biosystems Engineering, 2019, 44, 95-102.	2.5	8
54	Rapid Measurement of Soybean Seed Viability Using Kernel-Based Multispectral Image Analysis. Sensors, 2019, 19, 271.	3.8	46

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55	Assessment of the Morphological Structure of Watermelon and Muskmelon Seeds as Related to Viability. Journal of Biosystems Engineering, 2019, 44, 77-86.	2.5	4
56	Selection of Optimal Hyperspectral Wavebands for Detection of Discolored, Diseased Rice Seeds. Applied Sciences (Switzerland), 2019, 9, 1027.	2.5	28
57	Classification Method for Viability Screening of Naturally Aged Watermelon Seeds Using FT-NIR Spectroscopy. Sensors, 2019, 19, 1190.	3.8	25
58	Development of a Low-Cost Multi-Waveband LED Illumination Imaging Technique for Rapid Evaluation of Fresh Meat Quality. Applied Sciences (Switzerland), 2019, 9, 912.	2.5	10
59	Raman hyperspectral imaging and spectral similarity analysis for quantitative detection of multiple adulterants in wheat flour. Biosystems Engineering, 2019, 181, 103-113.	4.3	36
60	Determination of viability of Retinispora (Hinoki cypress) seeds using FT-NIR spectroscopy. Infrared Physics and Technology, 2019, 98, 62-68.	2.9	11
61	Line-scan imaging analysis for rapid viability evaluation of white-fertilized-egg embryos. Sensors and Actuators B: Chemical, 2019, 281, 204-211.	7.8	8
62	Advances in Raman spectroscopy and imaging techniques for quality and safety inspection of horticultural products. Postharvest Biology and Technology, 2019, 149, 101-117.	6.0	45
63	Rapid authentication measurement of cinnamon powder using FT-NIR and FT-IR spectroscopic techniques. Quality Assurance and Safety of Crops and Foods, 2019, 11, 257-267.	3.4	20
64	Effect of vibration stress on quality of packaged grapes during transportation. Engineering in Agriculture, Environment and Food, 2018, 11, 79-83.	0.5	24
65	Determination of the total volatile basic nitrogen (TVB-N) content in pork meat using hyperspectral fluorescence imaging. Sensors and Actuators B: Chemical, 2018, 259, 532-539.	7.8	73
66	Raman spectral imaging technique for API detection in pharmaceutical microtablets. Sensors and Actuators B: Chemical, 2018, 260, 213-222.	7.8	19
67	Hyperspectral imaging for predicting the allicin and soluble solid content of garlic with variable selection algorithms and chemometric models. Journal of the Science of Food and Agriculture, 2018, 98, 4715-4725.	3.5	35
68	Non‐destructive technique for determining the viability of soybean (<scp><i>Glycine max</i></scp>) seeds using FT‐NIR spectroscopy. Journal of the Science of Food and Agriculture, 2018, 98, 1734-1742.	3.5	55
69	Rapid assessment of corn seed viability using short wave infrared line-scan hyperspectral imaging and chemometrics. Sensors and Actuators B: Chemical, 2018, 255, 498-507.	7.8	85
70	X-ray CT image analysis for morphology of muskmelon seed in relation to germination. Biosystems Engineering, 2018, 175, 183-193.	4.3	35
71	Hyperspectral imaging sensor for optimization of small molecule formulations. Medical Devices & Sensors, 2018, 1, e10006.	2.7	3
72	Quality Analysis of Stored Bell Peppers Using Near-Infrared Hyperspectral Imaging. Transactions of the ASABE, 2018, 61, 1199-1207.	1.1	6

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73	Mapping the Pungency of Green Pepper Using Hyperspectral Imaging. Food Analytical Methods, 2018, 11, 3042-3052.	2.6	11
74	Detection of melamine in milk powder using MCT-based short-wave infrared hyperspectral imaging system. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2018, 35, 1027-1037.	2.3	16
75	Through-packaging analysis of butter adulteration using line-scan spatially offset Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2018, 410, 5663-5673.	3.7	34
76	Raman Imaging for the Detection of Adulterants in Paprika Powder: A Comparison of Data Analysis Methods. Applied Sciences (Switzerland), 2018, 8, 485.	2.5	4
77	Calibration and testing of a Raman hyperspectral imaging system to reveal powdered food adulteration. PLoS ONE, 2018, 13, e0195253.	2.5	28
78	Multivariate Analysis of Deboning Data for Classifying Hanwoo (Korean Native Cattle) by Gender. Current Science, 2018, 114, 1075.	0.8	3
79	Inspection of maleic anhydride in starch powder using line-scan hyperspectral Raman chemical imaging technique. International Journal of Agricultural and Biological Engineering, 2018, 11, 120-125.	0.6	9
80	Nondestructive Estimation of Lean Meat Yield of South Korean Pig Carcasses Using Machine Vision Technique. Korean Journal for Food Science of Animal Resources, 2018, 38, 1109-1119.	1.5	10
81	Non-targeted and targeted Raman imaging detection of chemical contaminants in food powders. , 2018, , .		2
82	Non‐destructive evaluation of bacteria‐infected watermelon seeds using visible/near‐infrared hyperspectral imaging. Journal of the Science of Food and Agriculture, 2017, 97, 1084-1092.	3.5	36
83	On-line fresh-cut lettuce quality measurement system using hyperspectral imaging. Biosystems Engineering, 2017, 156, 38-50.	4.3	26
84	Quantitative analysis of Sudan dye adulteration in paprika powder using FTIR spectroscopy. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2017, 34, 1-9.	2.3	22
85	Fluorescence hyperspectral imaging technique for foreign substance detection on fresh‐cut lettuce. Journal of the Science of Food and Agriculture, 2017, 97, 3985-3993.	3.5	14
86	Quantitative Detection of Benzoyl Peroxide in Wheat Flour Using Line-Scan Macroscale Raman Chemical Imaging. Applied Spectroscopy, 2017, 71, 2469-2476.	2.2	23
87	Discrimination methods for biological contaminants in fresh-cut lettuce based on VNIR and NIR hyperspectral imaging. Infrared Physics and Technology, 2017, 85, 1-12.	2.9	11
88	Detecting benzoyl peroxide in wheat flour by line-scan macro-scale Raman chemical imaging. , 2017, , .		0
89	Line-scan Raman imaging and spectroscopy platform for surface and subsurface evaluation of food safety and quality. Journal of Food Engineering, 2017, 198, 17-27.	5.2	21
90	Spatial assessment of soluble solid contents on apple slices using hyperspectral imaging. Biosystems Engineering, 2017, 159, 10-21.	4.3	51

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91	Raman imaging from microscopy to macroscopy: Quality and safety control of biological materials. TrAC - Trends in Analytical Chemistry, 2017, 93, 183-198.	11.4	62
92	Subsurface inspection of food safety and quality using line-scan spatially offset Raman spectroscopy technique. Food Control, 2017, 75, 246-254.	5.5	28
93	Invasion risk of the yellow crazy ant (Anoplolepis gracilipes) under the Representative Concentration Pathways 8.5 climate change scenario in South Korea. Journal of Asia-Pacific Biodiversity, 2017, 10, 548-554.	0.4	17
94	Quality assessment of pharmaceutical tablet samples using Fourier transform near infrared spectroscopy and multivariate analysis. Infrared Physics and Technology, 2017, 85, 300-306.	2.9	22
95	Predictive analysis of Metcalfa pruinosa (Hemiptera: Flatidae) distribution in South Korea using CLIMEX software. Journal of Asia-Pacific Biodiversity, 2017, 10, 379-384.	0.4	17
96	Qualitative properties of roasting defect beans and development of its classification methods by hyperspectral imaging technology. Food Chemistry, 2017, 220, 505-509.	8.2	26
97	Detection and quantification of adulterants in milk powder using a high-throughput Raman chemical imaging technique. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2017, 34, 152-161.	2.3	30
98	Raman Hyperspectral Imaging for Detection of Watermelon Seeds Infected with Acidovorax citrulli. Sensors, 2017, 17, 2188.	3.8	30
99	Nondestructive Estimation of Moisture Content, pH and Soluble Solid Contents in Intact Tomatoes Using Hyperspectral Imaging. Applied Sciences (Switzerland), 2017, 7, 109.	2.5	50
100	Line-Scan Hyperspectral Imaging Techniques for Food Safety and Quality Applications. Applied Sciences (Switzerland), 2017, 7, 125.	2.5	63
101	Effects of modified atmosphere packaging (MAP) and vaporized ethyl pyruvate (EP) treatment for the shelf life of 'Seolhyang' strawberries. Korean Journal of Food Preservation, 2017, 24, 351-360.	0.5	5
102	Estimation of Welding Time and Width of Weld Joint Part of Polyethylene Pipes by Microwave Reflection. Journal of the Korean Society for Nondestructive Testing, 2017, 37, 164-169.	0.2	0
103	Visual Analysis for Detection and Quantification of Pseudomonas cichorii Disease Severity in Tomato Plants. Plant Pathology Journal, 2016, 32, 300-310.	1.7	22
104	Assessment of seed quality using non-destructive measurement techniques: a review. Seed Science Research, 2016, 26, 285-305.	1.7	114
105	In-Process Control Assay of Pharmaceutical Microtablets Using Hyperspectral Imaging Coupled with Multivariate Analysis. Analytical Chemistry, 2016, 88, 11055-11061.	6.5	33
106	Whole-surface round object imaging method using line-scan hyperspectral imaging system. , 2016, , .		1
107	Classification of cucumber green mottle mosaic virus (CGMMV) infected watermelon seeds using Raman spectroscopy. , 2016, , .		2
108	Detection of cucumber green mottle mosaic virus-infected watermelon seeds using a near-infrared (NIR) hyperspectral imaging system: Application to seeds of the "Sambok Honey" cultivar. Biosystems Engineering, 2016, 148, 138-147.	4.3	39

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109	A line‑scan hyperspectral Raman system for spatially offset Raman spectroscopy. Journal of Raman Spectroscopy, 2016, 47, 437-443.	2.5	34
110	Detection of melamine in milk powders using near-infrared hyperspectral imaging combined with regression coefficient of partial least square regression model. Talanta, 2016, 151, 183-191.	5.5	92
111	Line-Scan Macro-scale Raman Chemical Imaging for Authentication of Powdered Foods and Ingredients. Food and Bioprocess Technology, 2016, 9, 113-123.	4.7	39
112	Application of hyperspectral imaging for characterization of intramuscular fat distribution in beef. Infrared Physics and Technology, 2016, 74, 1-10.	2.9	42
113	Near-infrared hyperspectral imaging system coupled with multivariate methods to predict viability and vigor in muskmelon seeds. Sensors and Actuators B: Chemical, 2016, 229, 534-544.	7.8	113
114	Application of Fourier transform-mid infrared reflectance spectroscopy for monitoring Korean traditional rice wine 'Makgeolli' fermentation. Sensors and Actuators B: Chemical, 2016, 230, 753-760.	7.8	9
115	High speed measurement of corn seed viability using hyperspectral imaging. Infrared Physics and Technology, 2016, 75, 173-179.	2.9	95
116	Comparative nondestructive measurement of corn seed viability using Fourier transform near-infrared (FT-NIR) and Raman spectroscopy. Sensors and Actuators B: Chemical, 2016, 224, 500-506.	7.8	83
117	Rapid detection of multiple foodborne pathogens using a nanoparticle-functionalized multi-junction biosensor. Biosensors and Bioelectronics, 2016, 77, 137-143.	10.1	61
118	Non-Destructive Sorting Techniques for Viable Pepper (Capsicum annuum L.) Seeds Using Fourier Transform Near-Infrared and Raman Spectroscopy. Journal of Biosystems Engineering, 2016, 41, 51-59.	2.5	22
119	Study of Radio Frequency Thawing for Cylindrical Pork Sirloin. Journal of Biosystems Engineering, 2016, 41, 108-115.	2.5	21
120	Net Analyte Signal-based Quantitative Determination of Fusel Oil in Korean Alcoholic Beverage Using FT-NIR Spectroscopy. Journal of Biosystems Engineering, 2016, 41, 208-220.	2.5	8
121	Biosensors and their Applications in Food Safety: A Review. Journal of Biosystems Engineering, 2016, 41, 240-254.	2.5	30
122	Physicochemical Quality Changes in Chinese Cabbage with Storage Period and Temperature: A Review. Journal of Biosystems Engineering, 2016, 41, 373-388.	2.5	16
123	Outdoor Applications of Hyperspectral Imaging Technology for Monitoring Agricultural Crops: A Review. Journal of Biosystems Engineering, 2016, 41, 396-407.	2.5	10
124	Development of Non-Destructive Sorting Technique for Viability of Watermelon Seed by Using Hyperspectral Image Processing. Journal of the Korean Society for Nondestructive Testing, 2016, 36, 35-44.	0.2	15
125	Study on Rapid Measurement of Wood Powder Concentration of Wood-Plastic Composites using FT-NIR and FT-IR Spectroscopy Techniques. Journal of the Korean Wood Science and Technology, 2016, 44, 852-863.	3.0	8
126	Detection of Lettuce Discoloration Using Hyperspectral Reflectance Imaging. Sensors, 2015, 15, 29511-29534.	3.8	20

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127	Optimal variable selection for Fourier transform infrared spectroscopic analysis of starch-adulterated garlic powder. Sensors and Actuators B: Chemical, 2015, 216, 622-628.	7.8	47
128	Rapid monitoring of the fermentation process for Korean traditional rice wine 'Makgeolli' using FT-NIR spectroscopy. Infrared Physics and Technology, 2015, 73, 95-102.	2.9	22
129	A review of vibrational spectroscopic techniques for the detection of food authenticity and adulteration. Trends in Food Science and Technology, 2015, 46, 85-98.	15.1	340
130	Short wave infrared (SWIR) hyperspectral imaging technique for examination of aflatoxin B1 (AFB1) on corn kernels. Food Control, 2015, 51, 171-176.	5.5	92
131	Development of a Detection Method for Adulterated Onion Powder using Raman Spectroscopy. Journal of the Faculty of Agriculture, Kyushu University, 2015, 60, 151-156.	0.2	12
132	Spectroscopic Techniques for Nondestructive Detection of Fungi and Mycotoxins in Agricultural Materials: A Review. Journal of Biosystems Engineering, 2015, 40, 67-77.	2.5	15
133	Review of Rice Quality under Various Growth and Storage Conditions and its Evaluation using Spectroscopic Technology. Journal of Biosystems Engineering, 2015, 40, 124-136.	2.5	7
134	Effect of Microwave Heat Treatment on Inhibition of Corn Seed Germination. Journal of Biosystems Engineering, 2015, 40, 224-231.	2.5	7
135	Current State of Postharvest Fruit and Vegetable Management in East Africa. Journal of Biosystems Engineering, 2015, 40, 238-249.	2.5	16
136	A Review of Technologies to Prolong the Shelf Life of Fresh Tropical Fruits in Southeast Asia. Journal of Biosystems Engineering, 2015, 40, 345-358.	2.5	22
137	Spectroscopic Techniques for Nondestructive Quality Inspection of Pharmaceutical Products: A Review. Journal of Biosystems Engineering, 2015, 40, 394-408.	2.5	17
138	A Simple Method for Evaluation of Pepper Powder Color Using Vis/NIR Hyperspectral System. Horticultural Science and Technology, 2015, 33, 403-408.	0.6	3
139	A Simple Method for Evaluation of Pepper Powder Color Using Vis/NIR Hyperspectral System. Horticultural Science and Technology, 2015, 33, 805-805.	0.6	0
140	Characterization of Developmental- and Stress-Mediated Expression of Cinnamoyl-CoA Reductase in Kenaf (*Hibiscus cannabinus* L.). Scientific World Journal, The, 2014, 2014, 1-10.	2.1	11
141	Effects of red grape, wild grape and black raspberry wines on ground pork during refrigerated storage. Acta Alimentaria, 2014, 43, 553-563.	0.7	3
142	Multispectral fluorescence imaging for detection of bovine faeces on Romaine lettuce and baby spinach leaves. Biosystems Engineering, 2014, 127, 125-134.	4.3	13
143	Optimal Fluorescence Waveband Determination for Detecting Defective Cherry Tomatoes Using a Fluorescence Excitation-Emission Matrix. Sensors, 2014, 14, 21483-21496.	3.8	12
144	Detection of Cracks on Tomatoes Using a Hyperspectral Near-Infrared Reflectance Imaging System. Sensors, 2014, 14, 18837-18850.	3.8	29

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145	Non-Destructive Quality Evaluation of Pepper (Capsicum annuum L.) Seeds Using LED-Induced Hyperspectral Reflectance Imaging. Sensors, 2014, 14, 7489-7504.	3.8	37
146	A Review of the Applications of Spectroscopy for the Detection of Microbial Contaminations and Defects in Agro Foods. Journal of Biosystems Engineering, 2014, 39, 215-226.	2.5	9
147	Hyperspectral near-infrared imaging for the detection of physical damages of pear. Journal of Food Engineering, 2014, 130, 1-7.	5.2	116
148	Detection of Starch Adulteration in Onion Powder by FT-NIR and FT-IR Spectroscopy. Journal of Agricultural and Food Chemistry, 2014, 62, 9246-9251.	5.2	105
149	Viability estimation of pepper seeds using time-resolved photothermal signal characterization. Infrared Physics and Technology, 2014, 67, 214-221.	2.9	14
150	Application of infrared lock-in thermography for the quantitative evaluation of bruises on pears. Infrared Physics and Technology, 2014, 63, 133-139.	2.9	40
151	Identifications of household's spores using mid infrared spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 123, 490-496.	3.9	9
152	Development of multispectral imaging algorithm for detection of frass on mature red tomatoes. Postharvest Biology and Technology, 2014, 93, 1-8.	6.0	21
153	A Simple Multispectral Imaging Algorithm for Detection of Defects on Red Delicious Apples. Journal of Biosystems Engineering, 2014, 39, 142-149.	2.5	13
154	A Review of Technologies for Detection and Measurement of Adulterants in Cereals and Cereal Products. Journal of Biosystems Engineering, 2014, 39, 357-365.	2.5	11
155	Development of Nondestructive Detection Method for Adulterated Powder Products Using Raman Spectroscopy and Partial Least Squares Regression. Journal of the Korean Society for Nondestructive Testing, 2014, 34, 283-289.	0.2	14
156	Development of Nondestructive Sorting Method for Brown Bloody Eggs Using VIS/NIR Spectroscopy. Journal of the Korean Society for Nondestructive Testing, 2014, 34, 31-37.	0.2	1
157	Determination of optimal excitation and emission wavebands for detection of defect cherry tomato by using fluorescence emission and excitation matrix. Proceedings of SPIE, 2013, , .	0.8	4
158	Prediction of crude protein and oil content of soybeans using Raman spectroscopy. Sensors and Actuators B: Chemical, 2013, 185, 694-700.	7.8	62
159	Detection of cuticle defects on cherry tomatoes using hyperspectral fluorescence imagery. Postharvest Biology and Technology, 2013, 76, 40-49.	6.0	90
160	Evaluation of the firmness measurement of fruit by using a non-contact ultrasonic technique. , 2013, , .		2
161	Mid-Infrared Lifetime Imaging for Viability Evaluation of Lettuce Seeds Based on Time-Dependent Thermal Decay Characterization. Sensors, 2013, 13, 2986-2996.	3.8	17
162	Hyperspectral Reflectance Imaging Technique for Visualization of Moisture Distribution in Cooked Chicken Breast. Sensors, 2013, 13, 13289-13300.	3.8	59

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163	Molecular Characterization of Ferulate 5-Hydroxylase Gene from Kenaf (<i>Hibiscus cannabinus</i>L.). Scientific World Journal, The, 2013, 2013, 1-11.	2.1	6
164	Applications of Discrete Wavelet Analysis for Predicting Internal Quality of Cherry Tomatoes using VIS/NIR Spectroscopy. Journal of Biosystems Engineering, 2013, 38, 48-54.	2.5	16
165	Detection Algorithm for Cracks on the Surface of Tomatoes using Multispectral Vis/NIR Reflectance Imagery. Journal of Biosystems Engineering, 2013, 38, 199-207.	2.5	10
166	Nondestructive Evaluation for the Viability of Watermelon (Citrullus lanatus) Seeds Using Fourier Transform Near Infrared Spectroscopy. Journal of Biosystems Engineering, 2013, 38, 312-317.	2.5	39
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