Hyperspectral imaging technique for evaluating food que processes: A review of recent applications

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Citation Report

#	Article	IF	CITATIONS
1	Predicting intramuscular fat content variations in boiled pork muscles by hyperspectral imaging using a novel spectral pre-processing technique. LWT - Food Science and Technology, 2018, 94, 119-128.	2.5	74
2	Hyperspectral Imaging Sensing of Changes in Moisture Content and Color of Beef During Microwave Heating Process. Food Analytical Methods, 2018, 11, 2472-2484.	1.3	89
3	Supervised vs Unsupervised Approaches for Real Time Hyperspectral Imaging Maritime Target Detection. , 2018, , .		0
4	Prediction of Douglas-Fir Lumber Properties: Comparison between a Benchtop Near-Infrared Spectrometer and Hyperspectral Imaging System. Applied Sciences (Switzerland), 2018, 8, 2602.	1.3	8
5	BIO-IMAGING IN OUR KITCHENS: TO THE DISCOVERY OF PRODUCTS OF ANIMAL ORIGIN. Istituto Lombardo - Accademia Di Scienze E Lettere - Incontri Di Studio, 0, , .	0.0	0
6	Advanced glycation end-products (AGEs) in foods and their detecting techniques and methods: A review. Trends in Food Science and Technology, 2018, 82, 32-45.	7.8	90
7	Chemometrics and hyperspectral imaging applied to assessment of chemical, textural and structural characteristics of meat. Meat Science, 2018, 144, 100-109.	2.7	53
8	A Short Update on the Advantages, Applications and Limitations of Hyperspectral and Chemical Imaging in Food Authentication. Applied Sciences (Switzerland), 2018, 8, 505.	1.3	28
9	Noninvasive techniques for detection of foreign bodies in food: A review. Journal of Food Process Engineering, 2018, 41, e12808.	1.5	33
10	Application of Deep Learning Architectures for Accurate and Rapid Detection of Internal Mechanical Damage of Blueberry Using Hyperspectral Transmittance Data. Sensors, 2018, 18, 1126.	2.1	100
11	Surface-enhanced Raman scattering of core-shell Au@Ag nanoparticles aggregates for rapid detection of difenoconazole in grapes. Talanta, 2019, 191, 449-456.	2.9	132
12	Rapid classification of commercial Cheddar cheeses from different brands using PLSDA, LDA and SPA–LDA models built by hyperspectral data. Journal of Food Measurement and Characterization, 2019, 13, 3119-3129.	1.6	40
13	Application of Hyperspectral Imaging as a Nondestructive Technique for Foodborne Pathogen Detection and Characterization. Foodborne Pathogens and Disease, 2019, 16, 712-722.	0.8	15
14	Lipid oxidation degree of pork meat during frozen storage investigated by near-infrared hyperspectral imaging: Effect of ice crystal growth and distribution. Journal of Food Engineering, 2019, 263, 311-319.	2.7	50
15	Changes in activity, structure and morphology of horseradish peroxidase induced by cold plasma. Food Chemistry, 2019, 301, 125240.	4.2	48
16	Classical and emerging non-destructive technologies for safety and quality evaluation of cereals: A review of recent applications. Trends in Food Science and Technology, 2019, 91, 598-608.	7.8	47
17	Current intelligent segmentation and cooking technology in the central kitchen food processing. Journal of Food Process Engineering, 2019, 42, e13149.	1.5	8
18	Utilising near-infrared hyperspectral imaging to detect low-level peanut powder contamination of whole wheat flour. Biosystems Engineering, 2019, 184, 55-68.	1.9	21

	CITATION	Report	
#	ARTICLE Cold Plasmaâ€Mediated Treatments for Shelf Life Extension of Fresh Produce: A Review of Recent	IF	CITATIONS
19	Research Developments. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 1312-1326.	5.9	124
20	Glass transitions as affected by food compositions and by conventional and novel freezing technologies: A review. Trends in Food Science and Technology, 2019, 94, 1-11.	7.8	76
21	Fusing spectral and textural information in near-infrared hyperspectral imaging to improve green tea classification modelling. Journal of Food Engineering, 2019, 249, 40-47.	2.7	43
22	Measuring and controlling ice crystallization in frozen foods: A review of recent developments. Trends in Food Science and Technology, 2019, 90, 13-25.	7.8	129
23	Sparse Subspace Clustering for Hyperspectral Images with Missing Pixels. , 2019, , .		1
24	Comparison of spectral properties of three hyperspectral imaging (HSI) sensors in evaluating main chemical compositions of cured pork. Journal of Food Engineering, 2019, 261, 100-108.	2.7	25
25	Kinetic modeling of microwave extraction of polysaccharides from <i>Astragalus membranaceus</i> . Journal of Food Processing and Preservation, 2019, 43, e14001.	0.9	7
26	Assessing the inactivation efficiency of Ar/O2 plasma treatment against Listeria monocytogenes cells: Sublethal injury and inactivation kinetics. LWT - Food Science and Technology, 2019, 111, 318-327.	2.5	62
27	Principles of Hyperspectral Microscope Imaging Techniques and Their Applications in Food Quality and Safety Detection: A Review. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 853-866.	5.9	68
28	Pathogenetic process monitoring and early detection of pear black spot disease caused by Alternaria alternata using hyperspectral imaging. Postharvest Biology and Technology, 2019, 154, 96-104.	2.9	53
29	Research advances in browning of button mushroom (Agaricus bisporus): Affecting factors and controlling methods. Trends in Food Science and Technology, 2019, 90, 63-75.	7.8	64
30	Mid-infrared (MIR) Spectroscopy for Quality Analysis of Liquid Foods. Food Engineering Reviews, 2019, 11, 142-158.	3.1	34
31	Mapping changes in sarcoplasmatic and myofibrillar proteins in boiled pork using hyperspectral imaging with spectral processing methods. LWT - Food Science and Technology, 2019, 110, 338-345.	2.5	30
32	Developments of nondestructive techniques for evaluating quality attributes of cheeses: A review. Trends in Food Science and Technology, 2019, 88, 527-542.	7.8	53
33	Ripeness Classification of Bananito Fruit (Musa acuminata, AA): a Comparison Study of Visible Spectroscopy and Hyperspectral Imaging. Food Analytical Methods, 2019, 12, 1693-1704.	1.3	37
34	SERS detection of urea and ammonium sulfate adulterants in milk with coffee ring effect. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2019, 36, 851-862.	1.1	58
35	Hierarchical Clustering Based Band Selection Algorithm for Hyperspectral Face Recognition. IEEE Access, 2019, 7, 24333-24342.	2.6	15
36	Effects of high-voltage electric field produced by an improved electrode system on freezing behaviors and selected properties of agarose gel. Journal of Food Engineering, 2019, 254, 25-33.	2.7	30

ARTICLE IF CITATIONS Advances in Nondestructive Methods for Meat Quality and Safety Monitoring. Food Reviews 37 4.3 50 International, 2019, 35, 536-562. Investigation of moisture content uniformity of microwave-vacuum dried mushroom (Agaricus) Tj ETQq1 1 0.784314 rgBT /Oyerlock Rapid detection of multiple organophosphorus pesticides (triazophos and parathion-methyl) residues 39 in peach by SERS based on core-shell bimetallic Au@Ag NPs. Food Additives and Contaminants - Part A 1.1 38 Chemistry, Analysis, Control, Exposure and Risk Assessment, 2019, 36, 762-778. Potato hierarchical clustering and doneness degree determination by near-infrared (NIR) and attenuated total reflectance mid-infrared (ATR-MIR) spectroscopy. Journal of Food Measurement and Characterization, 2019, 13, 1218-1231. Rapid detection and control of psychrotrophic microorganisms in cold storage foods: A review. 41 7.8 39 Trends in Food Science and Technology, 2019, 86, 453-464. A polarized hyperspectral imaging system for in vivo detection: Multiple applications in sunflower leaf analysis. Computers and Electronics in Agriculture, 2019, 158, 258-270. 3.7 Photocatalytic effects on the quality of pork packed in the package combined with TiO₂ 43 1.5 10 coated nonwoven fabrics. Journal of Food Process Engineering, 2019, 42, e12993. Quantitative Analysis of Soil Total Nitrogen Using Hyperspectral Imaging Technology with Extreme 44 2.1 36 Learning Machine. Sensors, 2019, 19, 4355. Measurements of lycopene contents in fruit: A review of recent developments in conventional and 45 5.4 34 novel techniques. Critical Reviews in Food Science and Nutrition, 2019, 59, 758-769. Fabrication of silver-coated gold nanoparticles to simultaneously detect multi-class insecticide residues in peach with SERS technique. Talanta, 2019, 196, 537-545. Non-destructive and contactless quality evaluation of table grapes by a computer vision system. 47 3.7 58 Computers and Electronics in Agriculture, 2019, 156, 558-564. Effects of operation processes and conditions on enhancing performances of vacuum cooling of foods: A review. Trends in Food Science and Technology, 2019, 85, 67-77. Effects of pretreatments on quality attributes of long-term deep frozen storage of vegetables: a 49 5.4 55 review. Critical Reviews in Food Science and Nutrition, 2019, 59, 743-757. Shell thickness-dependent Au@Ag nanoparticles aggregates for high-performance SERS applications. Talanta, 2019, 195, 506-515. Advanced Techniques for Hyperspectral Imaging in the Food Industry: Principles and Recent 51 5.198 Applications. Annual Review of Food Science and Technology, 2019, 10, 197-220. Effects of extremely low frequency electromagnetic field on the freezing processes of two liquid 64 systems. LWT - Food Science and Technology, 2019, 103, 212-221. Ultrasensitive analysis of kanamycin residue in milk by SERS-based aptasensor. Talanta, 2019, 197, 151-158. 53 2.9 118 Applications of Raman spectroscopic techniques for quality and safety evaluation of milk: A review of 54 5.4 74 recent developments. Critical Reviews in Food Science and Nutrition, 2019, 59, 770-793.

	CITATION	Report	
#	Article	IF	CITATIONS
55	Interpretation and rapid detection of secondary structure modification of actomyosin during frozen storage by near-infrared hyperspectral imaging. Journal of Food Engineering, 2019, 246, 200-208.	2.7	15
56	Novel techniques for evaluating freshness quality attributes of fish: A review of recent developments. Trends in Food Science and Technology, 2019, 83, 259-273.	7.8	146
57	Advances in Sheep and Goat Meat Products Research. Advances in Food and Nutrition Research, 2019, 87, 305-370.	1.5	25
58	Fabrication of gold nanorods for SERS detection of thiabendazole in apple. Talanta, 2019, 195, 841-849.	2.9	111
59	Effects of atmospheric pressure plasma jet on the conformation and physicochemical properties of myofibrillar proteins from king prawn (Litopenaeus vannamei). Food Chemistry, 2019, 276, 147-156.	4.2	168
60	Chemometric determination of time series moisture in both potato and sweet potato tubers during hot air and microwave drying using near/mid-infrared (NIR/MIR) hyperspectral techniques. Drying Technology, 2020, 38, 806-823.	1.7	37
61	Effects of multi-frequency ultrasound on freezing rates and quality attributes of potatoes. Ultrasonics Sonochemistry, 2020, 60, 104733.	3.8	63
62	A smart data-driven rapid method to recognize the strawberry maturity. Information Processing in Agriculture, 2020, 7, 575-584.	2.9	20
63	Electrically Tunable Multicolored Filter Using Birefringent Plasmonic Resonators and Liquid Crystals. ACS Photonics, 2020, 7, 444-453.	3.2	33
64	An overview of regression methods in hyperspectral and multispectral imaging. Data Handling in Science and Technology, 2019, 32, 205-230.	3.1	15
65	Hyperspectral and multispectral imaging: setting the scene. Data Handling in Science and Technology, 2019, , 3-16.	3.1	33
66	Naturally sourced biosubstances for regulating freezing points in food researches: Fundamentals, current applications and future trends. Trends in Food Science and Technology, 2020, 95, 131-140.	7.8	78
67	Visualization of the <i>in situ</i> distribution of contents and hydrogen bonding states of cellular level water in apple tissues by confocal Raman microscopy. Analyst, The, 2020, 145, 897-907.	1.7	60
68	A rapid dual-channel readout approach for sensing carbendazim with 4-aminobenzenethiol-functionalized core–shell Au@Ag nanoparticles. Analyst, The, 2020, 145, 1801-1809.	1.7	69
69	Two-dimensional Au@Ag nanodot array for sensing dual-fungicides in fruit juices with surface-enhanced Raman spectroscopy technique. Food Chemistry, 2020, 310, 125923.	4.2	106
70	Machine learning applications to non-destructive defect detection in horticultural products. Biosystems Engineering, 2020, 189, 60-83.	1.9	75
71	Monitoring Thermal and Non-Thermal Treatments during Processing of Muscle Foods: A Comprehensive Review of Recent Technological Advances. Applied Sciences (Switzerland), 2020, 10, 6802.	1.3	21
72	Emerging Techniques for Differentiation of Fresh and Frozen–Thawed Seafoods: Highlighting the Potential of Spectroscopic Techniques. Molecules, 2020, 25, 4472.	1.7	36

#	Article	IF	CITATIONS
73	Non-Destructive Imaging and Spectroscopic Techniques for Assessment of Carcass and Meat Quality in Sheep and Goats: A Review. Foods, 2020, 9, 1074.	1.9	29
74	Prediction of Microbial Spoilage and Shelf-Life of Bakery Products Through Hyperspectral Imaging. IEEE Access, 2020, 8, 176986-176996.	2.6	19
75	Application of Novel Techniques for Monitoring Quality Changes in Meat and Fish Products during Traditional Processing Processes: Reconciling Novelty and Tradition. Processes, 2020, 8, 988.	1.3	11
76	Efficient Transfer Learning for Spectral Image Reconstruction from RGB Images. , 2020, , .		4
77	Comparison of Soil Total Nitrogen Content Prediction Models Based on Vis-NIR Spectroscopy. Sensors, 2020, 20, 7078.	2.1	21
78	High recycling Fe3O4-CdTe nanocomposites for the detection of organophosphorothioate pesticide chlorpyrifos. Green Energy and Environment, 2022, 7, 229-235.	4.7	4
80	Spectroscopic Techniques for Monitoring Thermal Treatments in Fish and Other Seafood: A Review of Recent Developments and Applications. Foods, 2020, 9, 767.	1.9	19
81	Coded Aperture Optimization in Spatial Spectral Compressive Spectral Imagers. IEEE Transactions on Computational Imaging, 2020, 6, 764-777.	2.6	7
82	Near-infrared spectroscopy as a new method for post-harvest monitoring of white truffles. Mycological Progress, 2020, 19, 329-337.	0.5	8
83	A novel NIR spectral calibration method: Sparse coefficients wavelength selection and regression (SCWR). Analytica Chimica Acta, 2020, 1110, 169-180.	2.6	25
84	Recent developments in vibrational spectroscopic techniques for tea quality and safety analyses. Trends in Food Science and Technology, 2020, 104, 163-176.	7.8	63
85	Evaluating drying feature differences between ginger slices and splits during microwave-vacuum drying by hyperspectral imaging technique. Food Chemistry, 2020, 332, 127407.	4.2	44
86	Non-destructive determination of volatile oil and moisture content and discrimination of geographical origins of Zanthoxylum bungeanum Maxim. by hyperspectral imaging. Infrared Physics and Technology, 2020, 105, 103185.	1.3	17
87	Exploring the potential of NIR hyperspectral imaging for automated quantification of rind amount in grated Parmigiano Reggiano cheese. Food Control, 2020, 112, 107111.	2.8	21
88	A Review Towards Hyperspectral Imaging for Real-Time Quality Control of Food Products with an Illustrative Case Study of Milk Powder Production. Food and Bioprocess Technology, 2020, 13, 739-752.	2.6	20
89	Comparison of moisture uniformity between microwave-vacuum and hot-air dried ginger slices using hyperspectral information combined with semivariogram. Drying Technology, 2021, 39, 1044-1058.	1.7	27
90	Recent Advancements on Vibrational Spectroscopic Techniques for the Detection of Authenticity and Adulteration in Horticultural Products with a Specific Focus on Oils, Juices and Powders. Food and Bioprocess Technology, 2021, 14, 1-22.	2.6	33
91	Nondestructive measurement of pectin polysaccharides using hyperspectral imaging in mulberry fruit. Food Chemistry, 2021, 334, 127614.	4.2	40

#	Article	IF	CITATIONS
92	Green Analytical Chemistry. , 2021, , 483-493.		2
93	UltraBrix: A Device for Measuring the Soluble Solids Content in Sugarcane. Sustainability, 2021, 13, 1227.	1.6	4
94	Innovative distribution and delivery of food. , 2021, , 213-246.		0
95	Transfer Learning for Spectral Image Reconstruction from RGB Images. Communications in Computer and Information Science, 2021, , 160-173.	0.4	0
96	Machine learning techniques for analysis of hyperspectral images to determine quality of food products: A review. Current Research in Food Science, 2021, 4, 28-44.	2.7	159
97	A Review on Computer Vision Technology for Monitoring Poultry Farm—Application, Hardware, and Software. IEEE Access, 2021, 9, 12431-12445.	2.6	16
98	Imaging techniques in Agro-industry and their applications, a review. Journal of Food Measurement and Characterization, 2021, 15, 2329-2343.	1.6	10
99	State-of-the-Art of Analytical Techniques to Determine Food Fraud in Olive Oils. Foods, 2021, 10, 484.	1.9	14
100	Sensing Technology for Fish Freshness and Safety: A Review. Sensors, 2021, 21, 1373.	2.1	45
101	Detecting Bacterial Biofilms Using Fluorescence Hyperspectral Imaging and Various Discriminant Analyses. Sensors, 2021, 21, 2213.	2.1	13
102	Multi-Way Analysis Coupled with Near-Infrared Spectroscopy in Food Industry: Models and Applications. Foods, 2021, 10, 802.	1.9	23
103	4D surface shape measurement system with high spectral resolution and great depth accuracy. Optics Express, 2021, 29, 13048.	1.7	11
104	Quasi-collinear IR AOTF based on mercurous halide single crystals for spatio-spectral hyperspectral imaging. Optics Express, 2021, 29, 12813.	1.7	12
105	Rapid and noninvasive sensory analyses of food products by hyperspectral imaging: Recent application developments. Trends in Food Science and Technology, 2021, 111, 151-165.	7.8	81
106	Using Deep Learning Neural Network in Artificial Intelligence Technology to Classify Beef Cuts. Frontiers in Sensors, 2021, 2, .	1.7	11
107	Nondestructive identification of barley seeds varieties using hyperspectral data from two sides of barley seeds. Journal of Food Process Engineering, 2021, 44, e13769.	1.5	3
108	A Homogeneity-Based Multiscale Hyperspectral Image Representation for Sparse Spectral Unmixing. , 2021, , .		3
109	Novel Techniques for Quality Evaluation of Fish: A Review. Food Reviews International, 2023, 39, 639-662.	4.3	7

		Report	
#	ARTICLE	IF	CITATIONS
110	quality of fruits and vegetables. Trends in Food Science and Technology, 2021, 112, 137-148.	7.8	80
111	A Review on Meat Quality Evaluation Methods Based on Non-Destructive Computer Vision and Artificial Intelligence Technologies. Food Science of Animal Resources, 2021, 41, 563-588.	1.7	33
112	Recent developments in vibrational spectral analyses for dynamically assessing and monitoring food dehydration processes. Critical Reviews in Food Science and Nutrition, 2022, 62, 4267-4293.	5.4	8
113	Efficient extraction of deep image features using convolutional neural network (CNN) for applications in detecting and analysing complex food matrices. Trends in Food Science and Technology, 2021, 113, 193-204.	7.8	116
114	Critical insights into modern hyperspectral image applications through deep learning. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, e1426.	4.6	18
115	Data Science in the Food Industry. Annual Review of Biomedical Data Science, 2021, 4, 341-367.	2.8	19
116	Research advancements in optical imaging and spectroscopic techniques for nondestructive detection of mold infection and mycotoxins in cereal grains and nuts. Comprehensive Reviews in Food Science and Food Safety, 2021, 20, 4612-4651.	5.9	21
117	Rapid Foreign Object Detection System on Seaweed Using VNIR Hyperspectral Imaging. Sensors, 2021, 21, 5279.	2.1	9
118	Impact of drying temperature and salt pre-treatments on drying behavior and instrumental color and investigations on spectral product monitoring during drying of beef slices. Meat Science, 2021, 178, 108525.	2.7	10
119	Hyperspectral reflectance imaging for water content and firmness prediction of potatoes by optimum wavelengths. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2022, 17, 51-64.	0.5	3
120	Efficient two-dimensional scalar fields reconstruction of laminar flames from infrared hyperspectral measurements with a machine learning approach. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107724.	1.1	18
121	Exploring the Potential of Fluorescence Spectroscopy for the Discrimination between Fresh and Frozen-Thawed Muscle Foods. Photochem, 2021, 1, 247-263.	1.3	16
122	Shift-variant color-coded diffractive spectral imaging system. Optica, 2021, 8, 1424.	4.8	44
123	Recycling-Oriented Characterization of Post-Earthquake Building Waste by Different Sensing Techniques. Journal of Imaging, 2021, 7, 182.	1.7	9
124	Physicoâ€mechanical properties of unripe grape berries relevant in the design of juicing machine. Journal of Food Process Engineering, 2021, 44, e13859.	1.5	5
125	Recent advances in assessing qualitative and quantitative aspects of cereals using nondestructive techniques: A review. Trends in Food Science and Technology, 2021, 116, 815-828.	7.8	31
126	A terahertz time-domain super-resolution imaging method using a local-pixel graph neural network for biological products. Analytica Chimica Acta, 2021, 1181, 338898.	2.6	13
127	Feasibility study on identifying seed viability of Sophora japonica with optimized deep neural network and hyperspectral imaging. Computers and Electronics in Agriculture, 2021, 190, 106426.	3.7	16

#	Article	IF	CITATIONS
128	Contaminant detection in pistachio nuts by different classification methods applied to short-wave infrared hyperspectral images. Food Control, 2021, 130, 108202.	2.8	20
129	Smart applications and digital technologies in viticulture: A review. Smart Agricultural Technology, 2021, 1, 100005.	3.1	44
130	Hyperspectral imaging based kinetic approach to assess quality deterioration in fresh mushrooms (Agaricus bisporus) during postharvest storage. Food Control, 2022, 131, 108298.	2.8	11
131	Effects of dielectric properties and microstructures on microwave-vacuum drying of mushroom (Agaricus bisporus) caps and stipes evaluated by non-destructive techniques. Food Chemistry, 2022, 367, 130698.	4.2	19
132	Impacts of novel blanching treatments combined with commercial drying methods on the physicochemical properties of Irish brown seaweed Alaria esculenta. Food Chemistry, 2022, 369, 130949.	4.2	28
133	Achieving joint calibration of soil Vis-NIR spectra across instruments, soil types and properties by an attention-based spectra encoding-spectra/property decoding architecture. Geoderma, 2022, 405, 115449.	2.3	10
134	NIR Imaging. , 2021, , 517-551.		6
135	Determination of acrylamide in food products based on the fluorescence enhancement induced by distance increase between functionalized carbon quantum dots. Talanta, 2020, 218, 121152.	2.9	27
136	Sparse Subspace Clustering in Hyperspectral Images using Incomplete Pixels. Tecno Lógicas, 2019, 22, 1-14.	0.1	5
137	Fast Identification of Soybean Seed Varieties Using Laser-Induced Breakdown Spectroscopy Combined With Convolutional Neural Network. Frontiers in Plant Science, 2021, 12, 714557.	1.7	5
138	Developing C-LSTM model for evaluating moisture content of carrot slices during drying. Drying Technology, 2022, 40, 2964-2974.	1.7	4
139	Confocal hyperspectral microscopic imager for the detection and classification of individual microalgae. Optics Express, 2021, 29, 37281.	1.7	7
140	Beef Cut Classification Using Multispectral Imaging and Machine Learning Method. Frontiers in Nutrition, 2021, 8, 755007.	1.6	1
141	Narrowband transmission filters based on resonant waveguide gratings and conformal dielectric-plasmonic coatings. Advanced Optical Technologies, 2021, 10, 31-38.	0.9	3
142	Prediction of Whole Pork Loin and Individual Chops' Intramuscular Fat Using Computer Vision System Technology. Meat and Muscle Biology, 2020, 4, .	0.7	1
143	Adaptive increasing-margin adversarial neural iterative system based on facial expression recognition feature models. Multimedia Tools and Applications, 2022, 81, 3793-3830.	2.6	0
145	Visual detection of microbial community during three bacteria mixed fermentation through hyperspectral imaging technology. EFood, 2021, , .	1.7	0
146	Application of hyperspectral imaging technology for rapid identification of Ruditapes philippinarum contaminated by heavy metals. RSC Advances, 2021, 11, 33939-33951.	1.7	1

#	Article	IF	CITATIONS
148	Improving drying kinetics, physicochemical properties and bioactive compounds of red dragon fruit (Hylocereus species) by novel infrared drying. Food Chemistry, 2022, 375, 131886.	4.2	24
149	Multimodal Deep Learning via Late Fusion for Non-Destructive Papaya Fruit Maturity Classification. , 2021, , .		3
150	Non-destructive methods for detection of food quality. , 2022, , 645-667.		4
151	Application of High-Intensity Ultrasound to Improve Food Processing Efficiency: A Review. Foods, 2022, 11, 122.	1.9	59
152	Agricultural Potentials of Molecular Spectroscopy and Advances for Food Authentication: An Overview. Processes, 2022, 10, 214.	1.3	13
153	Emerging non-destructive imaging techniques for fruit damage detection: Image processing and analysis. Trends in Food Science and Technology, 2022, 120, 418-438.	7.8	54
154	Chemometrics in food science and technology: A bibliometric study. Chemometrics and Intelligent Laboratory Systems, 2022, 222, 104514.	1.8	19
155	Monitoring of moisture contents and rehydration rates of microwave vacuum and hot air dehydrated beef slices and splits using hyperspectral imaging. Food Chemistry, 2022, 382, 132346.	4.2	20
156	A Rapid Non-Destructive Hyperspectral Imaging Data Model for the Prediction of Pungent Constituents in Dried Ginger. Foods, 2022, 11, 649.	1.9	8
157	High-precision four-dimensional hyperspectral imager integrating fluorescence spectral detection and 3D surface shape measurement. Applied Optics, 2022, 61, 2542.	0.9	3
158	Nearâ€infrared techniques for fraud detection in dairy products: A review. Journal of Food Science, 2022, 87, 1943-1960.	1.5	14
159	Optimization of the Olive Production Chain through Optical Techniques and Development of New Cost-Effective Optical Systems Inspired by Agriculture 4.0. , 0, , .		0
160	Spectrally tailored 'hyperpixel' filter arrays for imaging of chemical compositions. , 2022, , .		2
161	Advances in Understanding and Harnessing the Molecular Regulatory Mechanisms of Vegetable Quality. Frontiers in Plant Science, 2022, 13, 836515.	1.7	4
162	Ruggedized, field-ready snapshot light-guide-based imaging spectrometer for environmental and remote sensing applications. Optics Express, 2022, 30, 10614.	1.7	9
163	DNA Based Molecular Detection Methods of Biological Adulterations in Commercial Teas: Successes and Obstacles. International Journal of Basic Sciences and Applied Computing, 2022, 8, 1-11.	0.2	1
164	Potential application of hyperspectral imaging in food grain quality inspection, evaluation and control during bulk storage. Journal of Agriculture and Food Research, 2022, 8, 100288.	1.2	14
165	MSENet: Marbling score estimation network for automated assessment of Korean beef. Meat Science, 2022, 188, 108784.	2.7	7

		CITATION REPORT		
#	Article		IF	Citations
167	Detection of Pits in Olive Using Hyperspectral Imaging Data. IEEE Access, 2022, 10, 58	525-58536.	2.6	1
168	Broadband Quantum Spectroscopy at the Fingerprint Mid-Infrared Region. ACS Photor 2151-2159.	nics, 2022, 9,	3.2	11
169	Hyperspectral imaging and machine learning in food microbiology: Developments and detection of bacterial, fungal, and viral contaminants. Comprehensive Reviews in Food Food Safety, 2022, 21, 3717-3745.	challenges in Science and	5.9	25
170	Automatic building footprint extraction and road detection from hyperspectral imager Electronic Imaging, 2022, 32, .	y. Journal of	0.5	1
171	Comparative Performance of NIR-Hyperspectral Imaging Systems. Foundations, 2022,	2, 523-540.	0.4	3
172	Emerging nondestructive techniques for the quality and safety evaluation of pork and advances, challenges, and future perspectives. Applied Food Research, 2022, 2, 10014	beef: Recent 7.	1.4	15
173	Emerging Approach for Fish Freshness Evaluation: Principle, Application and Challenges 11, 1897.	s. Foods, 2022,	1.9	12
174	Development of a general model for monitoring moisture distribution of four vegetable microwave-vacuum drying by hyperspectral imaging. Drying Technology, 2022, 40, 14	es undergoing 78-1492.	1.7	19
175	A Review of Pharmaceutical Robot based on Hyperspectral Technology. Journal of Intel Robotic Systems: Theory and Applications, 2022, 105, .	ligent and	2.0	10
176	Exploring time series of hyperspectral images for cold water coral stress response anal ONE, 2022, 17, e0272408.	ysis. PLoS	1.1	1
177	Spectroscopic Data for the Rapid Assessment of Microbiological Quality of Chicken Bu 2022, 11, 2386.	ırgers. Foods,	1.9	3
178	5D-fusion imaging for surface shape, polarization, and hyperspectral measurement. Ap	plied Optics, 0, , .	0.9	1
179	Effect of Plasma Activated Water on the Physicochemical and Functional Properties of Groundnuts Globulin. SSRN Electronic Journal, 0, , .	Bambara	0.4	0
180	The implication and evaluation of geometrical imperfections on manufactured surfaces Manufacturing Technology, 2022, 71, 717-739.	s. CIRP Annals -	1.7	3
181	Application of near-infrared hyperspectral imaging coupled with chemometrics for rapi non-destructive prediction of protein content in single chickpea seed. Journal of Food (and Analysis, 2023, 115, 104938.	d and Composition	1.9	10
182	Robust Spectral Based Compression of Hyperspectral Images using LSTM Autoencoder	rs. , 2022, , .		1
183	Toward in-process technology-aided automation for enhanced microbial food safety ar assurance in milk and beverages processing. Critical Reviews in Food Science and Nutr 1715-1735.	nd quality ition, 2024, 64,	5.4	7
184	Advances in Machine Learning and Hyperspectral Imaging in the Food Supply Chain. Fo Reviews, 2022, 14, 596-616.	bod Engineering	3.1	11

#	Article	IF	Citations
185	Recent advances in muscle food safety evaluation: Hyperspectral imaging analyses and applications. Critical Reviews in Food Science and Nutrition, 2023, 63, 1297-1313.	5.4	14
186	Combining Vis-NIR and NIR hyperspectral imaging techniques with a data fusion strategy for the rapid qualitative evaluation of multiple qualities in chicken. Food Control, 2023, 145, 109416.	2.8	26
187	Soil Moisture, Organic Carbon, and Nitrogen Content Prediction with Hyperspectral Data Using Regression Models. Sensors, 2022, 22, 7998.	2.1	11
188	Applications of machine learning techniques for enhancing nondestructive food quality and safety detection. Critical Reviews in Food Science and Nutrition, 2023, 63, 1649-1669.	5.4	32
189	Specific labeling and identification of bacteria based on concentrationâ€dependent carbon dot staining combined with hyperspectral imaging. Journal of Biophotonics, 0, , .	1.1	0
190	CNN in Food Industry: Current Practices and Future Trends. Studies in Computational Intelligence, 2023, , 55-77.	0.7	0
191	Multi/Hyper Spectral Imaging for Mango. , 2022, , 143-161.		0
192	Imaging Techniques for Evaluation of Ripening and Maturity of Fruits and Vegetables. , 2022, , 35-59.		0
193	Grains Impurity Assessment by Imaging Spectroscopy Means. , 2022, , .		0
194	Adulteration detection in minced beef using low-cost color imaging system coupled with deep neural network. Frontiers in Sustainable Food Systems, 0, 6, .	1.8	5
195	Emerging Technological Advances in Improving the Safety of Muscle Foods: Framing in the Context of the Food Revolution 4.0. Food Reviews International, 2024, 40, 37-78.	4.3	2
196	PatchMask: A Data Augmentation Strategy with Gaussian Noise in Hyperspectral Images. Remote Sensing, 2022, 14, 6308.	1.8	4
197	Digital twins in food processing: A conceptual approach to developing multi-layer digital models. Digital Chemical Engineering, 2023, 7, 100087.	1.2	1
198	HSIFoodIngr-64: A Dataset for Hyperspectral Food-Related Studies and a Benchmark Method on Food Ingredient Retrieval. IEEE Access, 2023, 11, 13152-13162.	2.6	5
199	Distinguishing fresh and frozen-thawed beef using hyperspectral imaging technology combined with convolutional neural networks. Microchemical Journal, 2023, 189, 108559.	2.3	12
200	Evaluation of the water penetration depth in mortar using water indicator and hyperspectral imaging. Construction and Building Materials, 2023, 380, 131269.	3.2	2
201	Evaluation of the effects of vacuum cooling on moisture contents, colour and texture of mushroom (Agaricus Bisporus) using hyperspectral imaging method. Microchemical Journal, 2023, 190, 108653.	2.3	2
202	Computer vision-based smart monitoring and control system for food drying: A study on carrot slices. Computers and Electronics in Agriculture, 2023, 206, 107654.	3.7	4

0

#	Article	IF	CITATIONS
203	Quantitative aflatoxin B1 detection and mining key wavelengths based on deep learning and hyperspectral imaging in subpixel level. Computers and Electronics in Agriculture, 2023, 206, 107561.	3.7	4
204	Fluorescence Spectral Imaging Based on Computational Spectral Sensing. Physical Review Applied, 2023, 19, .	1.5	0
205	Effect of cold plasma-activated water on the physicochemical and functional properties of Bambara groundnut globulin. Food Structure, 2023, 36, 100321.	2.3	1
206	From Lab to Field: An Empirical Study on the Generalization of Convolutional Neural Networks towards Crop Disease Detection. European Journal of Education and Pedagogy, 2023, 8, 33-40.	0.2	1
207	Fast-Training Deep Learning Algorithm for Multiplex Quantification of Mammalian Bioproduction Metabolites via Contactless Short-Wave Infrared Hyperspectral Sensing. ACS Omega, 0, , .	1.6	1
208	Hyperspectral imaging techniques for detection of foreign materials from fresh-cut vegetables. Postharvest Biology and Technology, 2023, 201, 112373.	2.9	5

235 metody badania efektywnoÅci skali spóÅ,dzielni mleczarskich. , 2023, .