Yong He

List of Publications by Year
in descending order

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577	21,833	9254	74	20343	116
papers	citations		h-index		g-index

594	594	594	12118
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wireless sensor deployment scheme for cost-effective smart farming using the ABC-TEEM algorithm. Evolving Systems, 2023, 14, 567-579.	2.4	6
2	Event-Triggered Fault Detection Filter Design for Discrete-Time Memristive Neural Networks With Time Delays. IEEE Transactions on Cybernetics, 2022, 52, 3359-3369.	6.2	24
3	Advances in infrared spectroscopy combined with artificial neural network for the authentication and traceability of food. Critical Reviews in Food Science and Nutrition, 2022, 62, 2963-2984.	5.4	30
4	Stability Analysis for Delayed Neural Networks via a Novel Negative-Definiteness Determination Method. IEEE Transactions on Cybernetics, 2022, 52, 5356-5366.	6.2	22
5	Recent progress of nondestructive techniques for fruits damage inspection: a review. Critical Reviews in Food Science and Nutrition, 2022, 62, 5476-5494.	5.4	30
6	Advanced high-throughput plant phenotyping techniques for genome-wide association studies: A review. Journal of Advanced Research, 2022, 35, 215-230.	4.4	62
7	Hyperspectral imaging with shallow convolutional neural networks (SCNN) predicts the early herbicide stress in wheat cultivars. Journal of Hazardous Materials, 2022, 421, 126706.	6.5	23
8	Rapid quantitative characterization of tea seedlings under lead-containing aerosol particles stress using Vis-NIR spectra. Science of the Total Environment, 2022, 802, 149824.	3.9	18
9	Size-segregated physicochemical properties of inhalable particulate matter in a tunnel-ventilated layer house in China. Environmental Research, 2022, 204, 112064.	3.7	5
10	Extraction of cellulose nanocrystals from areca waste and its application in eco-friendly biocomposite film. Chemosphere, 2022, 287, 132084.	4.2	45
11	Study on effects of airborne Pb pollution on quality indicators and accumulation in tea plants using Vis-NIR spectroscopy coupled with radial basis function neural network. Ecotoxicology and Environmental Safety, 2022, 229, 113056.	2.9	10
12	A framework for determining the total salt content of soil profiles using time-series Sentinel-2 images and a random forest-temporal convolution network. Geoderma, 2022, 409, 115656.	2.3	20
13	Application of essential oils in packaging films for the preservation of fruits and vegetables: A review. Food Chemistry, 2022, 375, 131810.	4.2	89
14	Real-time strawberry detection using deep neural networks on embedded system (rtsd-net): An edge AI application. Computers and Electronics in Agriculture, 2022, 192, 106586.	3.7	57
15	Quantitative Analysis of Droplet Size Distribution in Plant Protection Spray Based on Machine Learning Method. Water (Switzerland), 2022, 14, 175.	1.2	4
16	Using Deep Convolutional Neural Network for Image-Based Diagnosis of Nutrient Deficiencies in Plants Grown in Aquaponics. Chemosensors, 2022, 10, 45.	1.8	23
17	Automated detection of boundary line in paddy field using MobileV2-UNet and RANSAC. Computers and Electronics in Agriculture, 2022, 194, 106697.	3.7	15
18	Application of visible/near-infrared hyperspectral imaging with convolutional neural networks to phenotype aboveground parts to detect cabbage Plasmodiophora brassicae (clubroot). Infrared Physics and Technology, 2022, 121, 104040.	1.3	6

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19	Structure analysis and non-invasive detection of cadmium-phytochelatin2 complexes in plant by deep learning Raman spectrum. Journal of Hazardous Materials, 2022, 427, 128152.	6.5	7
20	Rapid and nondestructive detection of marine fishmeal adulteration by hyperspectral imaging and machine learning. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 120990.	2.0	11
21	Robust Delay-Dependent Load Frequency Control of Wind Power System Based on a Novel Reconstructed Model. IEEE Transactions on Cybernetics, 2022, 52, 7825-7836.	6.2	35
22	Highly sensitive electrochemical detection of paraoxon ethyl in water and fruit samples based on defect-engineered graphene nanoribbons modified electrode. Journal of Food Measurement and Characterization, 2022, 16, 2596-2603.	1.6	8
23	Microalgae Bioactive Carbohydrates as a Novel Sustainable and Eco-Friendly Source of Prebiotics: Emerging Health Functionality and Recent Technologies for Extraction and Detection. Frontiers in Nutrition, 2022, 9, 806692.	1.6	26
24	Deep convolution neural network with weighted loss to detect rice seeds vigor based on hyperspectral imaging under the sample-imbalanced condition. Computers and Electronics in Agriculture, 2022, 196, 106850.	3.7	17
25	Chitosan/PCL nanofibrous films developed by SBS to encapsulate thymol/HPÎ²CD inclusion complexes for fruit packaging. Carbohydrate Polymers, 2022, 286, 119267.	5.1	36
26	Ultra-sensitive detection of hydrogen peroxide and levofloxacin using a dual-functional fluorescent probe. Journal of Hazardous Materials, 2022, 432, 128605.	6.5	30
27	Emerging Technologies for Detecting the Chemical Composition of Plant and Animal Tissues and Their Bioactivities: An Editorial. Molecules, 2022, 27, 2620.	1.7	1
28	A Spatial-Temporal Analysis of Cellular Biopolymers on Leaf Blight-Infected Tea Plants Using Confocal Raman Microspectroscopy. Frontiers in Plant Science, 2022, 13, 846484.	1.7	7
29	Rice bacterial blight resistant cultivar selection based on visible/near-infrared spectrum and deep learning. Plant Methods, 2022, 18, 49.	1.9	15
30	Assess heavy metals-induced oxidative stress of microalgae by Electro-Raman combined technique. Analytica Chimica Acta, 2022, 1208, 339791.	2.6	5
31	Hyperspectral imaging coupled with CNN: A powerful approach for quantitative identification of feather meal and fish by-product meal adulterated in marine fishmeal. Microchemical Journal, 2022, 180, 107517.	2.3	15
32	Rapid Trace Detection of Pesticide Residues on Tomato by Surface-Enhanced Raman Spectroscopy and Flexible Tapes. Journal of Food Quality, 2022, 2022, 1-10.	1.4	8
33	Positive Effects and Optimal Ranges of Tea Saponins on Phytoremediation of Cadmium-Contaminated Soil. Sustainability, 2022, 14, 5941.	1.6	2
34	Complete and accurate holly fruits counting using YOLOX object detection. Computers and Electronics in Agriculture, 2022, 198, 107062.	3.7	38
35	AFFU-Net: Attention feature fusion U-Net with hybrid loss for winter jujube crack detection. Computers and Electronics in Agriculture, 2022, 198, 107049.	3.7	26
36	Predicting internal parameters of kiwifruit at different storage periods based on hyperspectral imaging technology. Journal of Food Measurement and Characterization, 2022, 16, 3910-3925.	1.6	4

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37	Stability Analysis of Continuous-Time Switched Neural Networks With Time-Varying Delay Based on Admissible Edge-Dependent Average Dwell Time. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5108-5117.	7.2	8
38	Detection of adulteration in food based on nondestructive analysis techniques: a review. Critical Reviews in Food Science and Nutrition, 2021, 61, 2351-2371.	5.4	63
39	Terahertz fingerprint characterization of 2,4-dichlorophenoxyacetic acid and its enhanced detection in food matrices combined with spectral baseline correction. Food Chemistry, 2021, 334, 127474.	4.2	21
40	Detection of microalgae single-cell antioxidant and electrochemical potentials by gold microelectrode and Raman micro-spectroscopy combined with chemometrics. Sensors and Actuators B: Chemical, 2021, 329, 129229.	4.0	26
41	A survey on the 5G network and its impact on agriculture: Challenges and opportunities. Computers and Electronics in Agriculture, 2021, 180, 105895.	3.7	181
42	Building a stable and accurate model for heavy metal detection in mulberry leaves based on a proposed analysis framework and laser-induced breakdown spectroscopy. Food Chemistry, 2021, 338, 127886.	4.2	13
43	Augmented two-side-looped Lyapunov functional for sampled-data-based synchronization of chaotic neural networks with actuator saturation. Neurocomputing, 2021, 422, 287-294.	3.5	16
44	Nutrient Status Diagnosis of Infield Oilseed Rape via Deep Learning-Enabled Dynamic Model. IEEE Transactions on Industrial Informatics, 2021, 17, 4379-4389.	7.2	41
45	Reachable Set Estimation for Discrete-Time Markovian Jump Neural Networks With Generally Incomplete Transition Probabilities. IEEE Transactions on Cybernetics, 2021, 51, 1311-1321.	6.2	32
46	Determination of Leaf Water Content with a Portable NIRS System Based on Deep Learning and Information Fusion Analysis. Transactions of the ASABE, 2021, 64, 127-135.	1.1	15
47	IoT Management of Field Crops and Orchards. Agriculture Automation and Control, 2021, , 291-303.	0.3	0
48	Estimation of Botanical Composition in Mixed Cloverâ€“Grass Fields Using Machine Learning-Based Image Analysis. Frontiers in Plant Science, 2021, 12, 622429.	1.7	6
49	Stability analysis of generalized neural networks with fast-varying delay via a relaxed negative-determination quadratic function method. Applied Mathematics and Computation, 2021, 391, 125631.	1.4	10
50	Crop Row Segmentation and Detection in Paddy Fields Based on Treble-Classification Otsu and Double-Dimensional Clustering Method. Remote Sensing, 2021, 13, 901.	1.8	32
51	A comprehensive review on recent applications of unmanned aerial vehicle remote sensing with various sensors for high-throughput plant phenotyping. Computers and Electronics in Agriculture, 2021, 182, 106033.	3.7	82
52	Trace Identification and Visualization of Multiple Benzimidazole Pesticide Residues on Toona sinensis Leaves Using Terahertz Imaging Combined with Deep Learning. International Journal of Molecular Sciences, 2021, 22, 3425.	1.8	12
53	Real-Time and In Situ Evaluation of Phycocyanin Concentration in Spirulina platensis Cultivation System by Using Portable Raman Spectroscopy. Journal of Chemistry, 2021, 2021, 1-11.	0.9	2
54	Quantitative analysis of cadmium in rice roots based on LIBS and chemometrics methods. Environmental Sciences Europe, 2021, 33, .	2.6	17

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55	Determination of Key Phenological Phases of Winter Wheat Based on the Time-Weighted Dynamic Time Warping Algorithm and MODIS Time-Series Data. Remote Sensing, 2021, 13, 1836.	1.8	12
56	Generalisation of tea moisture content models based on VNIR spectra subjected to fractional differential treatment. Biosystems Engineering, 2021, 205, 174-186.	1.9	15
57	Sensing of mercury ions in Porphyra by Copper @ Gold nanoclusters based ratiometric fluorescent aptasensor. Food Chemistry, 2021, 344, 128694.	4.2	72
58	Recent innovations of ultrasound green technology in herbal phytochemistry: A review. Ultrasonics Sonochemistry, 2021, 73, 105538.	3.8	62
59	Identification of storage years of black tea using near-infrared hyperspectral imaging with deep learning methods. Infrared Physics and Technology, 2021, 114, 103666.	1.3	25
60	A model for phenotyping crop fractional vegetation cover using imagery from unmanned aerial vehicles. Journal of Experimental Botany, 2021, 72, 4691-4707.	2.4	28
61	Transfer learning strategy for plastic pollution detection in soil: Calibration transfer from high-throughput HSI system to NIR sensor. Chemosphere, 2021, 272, 129908.	4.2	22
62	Application of Visible/Infrared Spectroscopy and Hyperspectral Imaging With Machine Learning Techniques for Identifying Food Varieties and Geographical Origins. Frontiers in Nutrition, 2021, 8, 680357.	1.6	36
63	Roughness measurement of leaf surface based on shape from focus. Plant Methods, 2021, 17, 72.	1.9	8
64	Boosting the generalization ability of Vis-NIR-spectroscopy-based regression models through dimension reduction and transfer learning. Computers and Electronics in Agriculture, 2021, 186, 106157.	3.7	30
65	Rapid and Accurate Varieties Classification of Different Crop Seeds Under Sample-Limited Condition Based on Hyperspectral Imaging and Deep Transfer Learning. Frontiers in Bioengineering and Biotechnology, 2021, 9, 696292.	2.0	17
66	Interaction of Bioactive Mono-Terpenes with Egg Yolk on Ice Cream Physicochemical Properties. Foods, 2021, 10, 1686.	1.9	2
67	Physicochemical impact of bioactive terpenes on the microalgae biomass structural characteristics. Bioresource Technology, 2021, 334, 125232.	4.8	17
68	Unmanned aerial vehicle-based field phenotyping of crop biomass using growth traits retrieved from PROSAIL model. Computers and Electronics in Agriculture, 2021, 187, 106304.	3.7	35
69	Preparation and characterization of a novel green tea essential oil nanoemulsion and its antifungal mechanism of action against Magnaporthae oryzae. Ultrasonics Sonochemistry, 2021, 76, 105649.	3.8	36
70	Recognition of early blight and late blight diseases on potato leaves based on graph cut segmentation. Journal of Agriculture and Food Research, 2021, 5, 100154.	1.2	32
71	Hyperspectral Imaging Combined With Deep Transfer Learning for Rice Disease Detection. Frontiers in Plant Science, 2021, 12, 693521.	1.7	26
72	Gold nanoparticles-mediated ratiometric fluorescence aptasensor for ultra-sensitive detection of Abscisic Acid. Biosensors and Bioelectronics, 2021, 190, 113311.	5.3	24

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73	A data fusion approach on confocal Raman microspectroscopy and electronic nose for quantitative evaluation of pesticide residue in tea. Biosystems Engineering, 2021, 210, 206-222.	1.9	40
74	Analyzing cadmium-phytochelatin2 complexes in plant using terahertz and circular dichroism information. Ecotoxicology and Environmental Safety, 2021, 225, 112800.	2.9	5
75	Optimization of 3D Point Clouds of Oilseed Rape Plants Based on Time-of-Flight Cameras. Sensors, 2021, 21, 664.	2.1	8
76	Crop Information Sensing Technology. Agriculture Automation and Control, 2021, , 121-153.	0.3	1
77	Development of a low-cost portable device for pixel-wise leaf SPAD estimation and blade-level SPAD distribution visualization using color sensing. Computers and Electronics in Agriculture, 2021, 190, 106487.	3.7	10
78	Hyperspectral imaging technology combined with deep learning for hybrid okra seed identification. Biosystems Engineering, 2021, 212, 46-61.	1.9	35
79	Stability Analysis for Delayed Neural Networks Based on A Sufficient and Necessary Condition on Polynomial Inequalities. , 2021, , .		1
80	Hyperspectral imaging combined with machine learning as a tool to obtain highâ€throughput plant saltâ€stress phenotyping. Plant Journal, 2020, 101, 1448-1461.	2.8	79
81	Practicability investigation of using near-infrared hyperspectral imaging to detect rice kernels infected with rice false smut in different conditions. Sensors and Actuators B: Chemical, 2020, 308, 127696.	4.0	44
82	In situ and non-destructive detection of the lipid concentration of Scenedesmus obliquus using hyperspectral imaging technique. Algal Research, 2020, 45, 101680.	2.4	10
83	Shape induced reflectance correction for non-destructive determination and visualization of soluble solids content in winter jujubes using hyperspectral imaging in two different spectral ranges. Postharvest Biology and Technology, 2020, 161, 111080.	2.9	39
84	Apple Bruise Grading Using Piecewise Nonlinear Curve Fitting for Hyperspectral Imaging Data. IEEE Access, 2020, 8, 147494-147506.	2.6	23
85	Nondestructive monitoring of polyphenols and caffeine during green tea processing using Visâ€NIR spectroscopy. Food Science and Nutrition, 2020, 8, 5860-5874.	1.5	23
86	Rapid Determination of Wood and Rice Husk Pelletsâ€™ Proximate Analysis and Heating Value. Energies, 2020, 13, 3741.	1.6	8
87	Investigation on Data Fusion of Multisource Spectral Data for Rice Leaf Diseases Identification Using Machine Learning Methods. Frontiers in Plant Science, 2020, 11, 577063.	1.7	41
88	Wheat Kernel Variety Identification Based on a Large Near-Infrared Spectral Dataset and a Novel Deep Learning-Based Feature Selection Method. Frontiers in Plant Science, 2020, 11, 575810.	1.7	35
89	Vision-Based Moving Obstacle Detection and Tracking in Paddy Field Using Improved Yolov3 and Deep SORT. Sensors, 2020, 20, 4082.	2.1	27
90	Optimal temporalâ€“spatial fluorescence techniques for phenotyping nitrogen status in oilseed rape. Journal of Experimental Botany, 2020, 71, 6429-6443.	2.4	7

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91	Emerging techniques for determining the quality and safety of tea products: A review. Comprehensive Reviews in Food Science and Food Safety, 2020, 19, 2613-2638.	5.9	26
92	NIR Hyperspectral Imaging for Mapping of Moisture Content Distribution in Tea Buds during Dehydration. , 2020, , .		0
93	Application of near-infrared hyperspectral imaging for variety identification of coated maize kernels with deep learning. Infrared Physics and Technology, 2020, 111, 103550.	1.3	48
94	Evaluation of Cultivar Identification Performance Using Feature Expressions and Classification Algorithms on Optical Images of Sweet Corn Seeds. Agronomy, 2020, 10, 1268.	1.3	5
95	Application of Convolutional Neural Network-Based Feature Extraction and Data Fusion for Geographical Origin Identification of Radix Astragali by Visible/Short-Wave Near-Infrared and Near Infrared Hyperspectral Imaging. Sensors, 2020, 20, 4940.	2.1	24
96	Rapid Quantitative Detection of Deltamethrin in Corydalis yanhusuo by SERS Coupled with Multi-Walled Carbon Nanotubes. Molecules, 2020, 25, 4081.	1.7	10
97	Self-Supervised Collaborative Multi-Network for Fine-Grained Visual Categorization of Tomato Diseases. IEEE Access, 2020, 8, 211912-211923.	2.6	38
98	Application of Laser-Induced Breakdown Spectroscopy in Detection of Cadmium Content in Rice Stems. Frontiers in Plant Science, 2020, 11, 599616.	1.7	17
99	Fine-Grained Image Classification for Crop Disease Based on Attention Mechanism. Frontiers in Plant Science, 2020, 11, 600854.	1.7	40
100	Integrating Remote Sensing and Landscape Characteristics to Estimate Soil Salinity Using Machine Learning Methods: A Case Study from Southern Xinjiang, China. Remote Sensing, 2020, 12, 4118.	1.8	44
101	Heavy metal detection in mulberry leaves: Laser-induced breakdown spectroscopy data. Data in Brief, 2020, 33, 106483.	0.5	5
102	Information fusion of emerging non-destructive analytical techniques for food quality authentication: A survey. TrAC - Trends in Analytical Chemistry, 2020, 127, 115901.	5.8	58
103	Application of near-infrared hyperspectral imaging to identify a variety of silage maize seeds and common maize seeds. RSC Advances, 2020, 10, 11707-11715.	1.7	24
104	Noise reduction in the spectral domain of hyperspectral images using denoising autoencoder methods. Chemometrics and Intelligent Laboratory Systems, 2020, 203, 104063.	1.8	41
105	Transfer learning method for plastic pollution evaluation in soil using NIR sensor. Science of the Total Environment, 2020, 740, 140118.	3.9	26
106	High-Throughput Screening of Free Proline Content in Rice Leaf under Cadmium Stress Using Hyperspectral Imaging with Chemometrics. Sensors, 2020, 20, 3229.	2.1	9
107	Application of Machine Learning Method to Quantitatively Evaluate the Droplet Size and Deposition Distribution of the UAV Spray Nozzle. Applied Sciences (Switzerland), 2020, 10, 1759.	1.3	13
108	Deep convolutional neural networks for image-based Convolvulus sepium detection in sugar beet fields. Plant Methods, 2020, 16, 29.	1.9	110

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109	Evaluation of quinclorac toxicity and alleviation by salicylic acid in rice seedlings using ground-based visible/near-infrared hyperspectral imaging. Plant Methods, 2020, 16, 30.	1.9	19
110	Discrimination of Grape Seeds Using Laser-Induced Breakdown Spectroscopy in Combination with Region Selection and Supervised Classification Methods. Foods, 2020, 9, 199.	1.9	22
111	Identification of Bacterial Blight Resistant Rice Seeds Using Terahertz Imaging and Hyperspectral Imaging Combined With Convolutional Neural Network. Frontiers in Plant Science, 2020, 11, 821.	1.7	44
112	Grain yield prediction of rice using multi-temporal UAV-based RGB and multispectral images and model transfer â€“ a case study of small farmlands in the South of China. Agricultural and Forest Meteorology, 2020, 291, 108096.	1.9	145
113	Global exponential stability analysis of neural networks with a time-varying delay via some state-dependent zero equations. Neurocomputing, 2020, 399, 1-7.	3.5	9
114	Rapid and Nondestructive Discrimination of Geographical Origins of Longjing Tea using Hyperspectral Imaging at Two Spectral Ranges Coupled with Machine Learning Methods. Applied Sciences (Switzerland), 2020, 10, 1173.	1.3	22
115	Developing deep learning based regression approaches for determination of chemical compositions in dry black goji berries (Lycium ruthenicum Murr.) using near-infrared hyperspectral imaging. Food Chemistry, 2020, 319, 126536.	4.2	108
116	Rapid Screen of the Color and Water Content of Fresh-Cut Potato Tuber Slices Using Hyperspectral Imaging Coupled with Multivariate Analysis. Foods, 2020, 9, 94.	1.9	33
117	Quantitative visualization of subcellular lignocellulose revealing the mechanism of alkali pretreatment to promote methane production of rice straw. Biotechnology for Biofuels, 2020, 13, 8.	6.2	13
118	Detection of Sulfite Dioxide Residue on the Surface of Fresh-Cut Potato Slices Using Near-Infrared Hyperspectral Imaging System and Portable Near-Infrared Spectrometer. Molecules, 2020, 25, 1651.	1.7	18
119	Assessment of the vigor of rice seeds by near-infrared hyperspectral imaging combined with transfer learning. RSC Advances, 2020, 10, 44149-44158.	1.7	9
120	Exponential Synchronization of Neural Networks With Time-Varying Delays via Dynamic Intermittent Output Feedback Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 612-622.	5.9	85
121	Application of Deep Learning in Integrated Pest Management: A Real-Time System for Detection and Diagnosis of Oilseed Rape Pests. Mobile Information Systems, 2019, 2019, 1-14.	0.4	32
122	Variety Identification of Orchids Using Fourier Transform Infrared Spectroscopy Combined with Stacked Sparse Auto-Encoder. Molecules, 2019, 24, 2506.	1.7	8
123	Signal Enhancement of Cadmium in Lettuce Using Laser-Induced Breakdown Spectroscopy Combined with Pyrolysis Process. Molecules, 2019, 24, 2517.	1.7	10
124	Time-Series Chlorophyll Fluorescence Imaging Reveals Dynamic Photosynthetic Fingerprints of sos Mutants to Drought Stress. Sensors, 2019, 19, 2649.	2.1	22
125	Application of Near-infrared Spectroscopy and Multiple Spectral Algorithms to Explore the Effect of Soil Particle Sizes on Soil Nitrogen Detection. Molecules, 2019, 24, 2486.	1.7	11
126	Strawberry Yield Prediction Based on a Deep Neural Network Using High-Resolution Aerial Orthoimages. Remote Sensing, 2019, 11, 1584.	1.8	124

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127	Assessment of External Properties for Identifying Banana Fruit Maturity Stages Using Optical Imaging Techniques. Sensors, 2019, 19, 2910.	2.1	18
128	Combining Fourier Transform Mid-Infrared Spectroscopy with Chemometric Methods to Detect Adulterations in Milk Powder. Sensors, 2019, 19, 2934.	2.1	17
129	Combining near-infrared hyperspectral imaging with elemental and isotopic analysis to discriminate farm-raised pacific white shrimp from high-salinity and low-salinity environments. Food Chemistry, 2019, 299, 125121.	4.2	13
130	Study of 2,4-D Spectral Characteristics and Its Detection in Zizania Latifolia Using Terahertz Time-Domain Spectroscopy. Applied Sciences (Switzerland), 2019, 9, 2248.	1.3	9
131	Rapid and Nondestructive Measurement of Rice Seed Vitality of Different Years Using Near-Infrared Hyperspectral Imaging. Molecules, 2019, 24, 2227.	1.7	52
132	Application of Deep Learning in Food: A Review. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 1793-1811.	5.9	291
133	Research on Method of Farmland Obstacle Boundary Extraction in UAV Remote Sensing Images. Sensors, 2019, 19, 4431.	2.1	5
134	Rapid Classification of Wheat Grain Varieties Using Hyperspectral Imaging and Chemometrics. Applied Sciences (Switzerland), 2019, 9, 4119.	1.3	65
135	Response surface methodology for optimizing LIBS testing parameters: A case to conduct the elemental contents analysis in soil. Chemometrics and Intelligent Laboratory Systems, 2019, 195, 103891.	1.8	9
136	Fine-tuning convolutional neural network with transfer learning for semantic segmentation of ground-level oilseed rape images in a field with high weed pressure. Computers and Electronics in Agriculture, 2019, 167, 105091.	3.7	90
137	Identifying Freshness of Spinach Leaves Stored at Different Temperatures Using Hyperspectral Imaging. Foods, 2019, 8, 356.	1.9	33
138	Hyperspectral imaging for seed quality and safety inspection: a review. Plant Methods, 2019, 15, 91.	1.9	88
139	Near-Infrared Hyperspectral Imaging Combined with Deep Learning to Identify Cotton Seed Varieties. Molecules, 2019, 24, 3268.	1.7	72
140	Lychee Fruit Detection Based on Monocular Machine Vision in Orchard Environment. Sensors, 2019, 19, 4091.	2.1	24
141	Identification of Soybean Varieties Using Hyperspectral Imaging Coupled with Convolutional Neural Network. Sensors, 2019, 19, 4065.	2.1	34
142	Computer vision-based localisation of picking points for automatic litchi harvesting applications towards natural scenarios. Biosystems Engineering, 2019, 187, 1-20.	1.9	44
143	Cost-sensitive stacked sparse auto-encoder models to detect striped stem borer infestation on rice based on hyperspectral imaging. Knowledge-Based Systems, 2019, 168, 49-58.	4.0	32
144	Rapid detection of cadmium and its distribution in Miscanthus sacchariflorus based on visible and near-infrared hyperspectral imaging. Science of the Total Environment, 2019, 659, 1021-1031.	3.9	29

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145	Hyperspectral Reflectance Imaging Combined with Multivariate Analysis for Diagnosis of Sclerotinia Stem Rot on Arabidopsis Thaliana Leaves. Applied Sciences (Switzerland), 2019, 9, 2092.	1.3	5
146	Analysis of Sildenafil in Liquor and Health Wine Using Surface Enhanced Raman Spectroscopy. International Journal of Molecular Sciences, 2019, 20, 2722.	1.8	11
147	Detection of Subtle Bruises on Winter Jujube Using Hyperspectral Imaging With Pixel-Wise Deep Learning Method. IEEE Access, 2019, 7, 64494-64505.	2.6	45
148	Using hyperspectral analysis as a potential high throughput phenotyping tool in GWAS for protein content of rice quality. Plant Methods, 2019, 15, 54.	1.9	48
149	Classification of hybrid seeds using near-infrared hyperspectral imaging technology combined with deep learning. Sensors and Actuators B: Chemical, 2019, 296, 126630.	4.0	89
150	Infield oilseed rape images segmentation via improved unsupervised learning models combined with supreme color features. Computers and Electronics in Agriculture, 2019, 162, 1057-1068.	3.7	21
151	Gold Nanoparticles with Different Particle Sizes for the Quantitative Determination of Chlorpyrifos Residues in Soil by SERS. International Journal of Molecular Sciences, 2019, 20, 2817.	1.8	26
152	Fast visualization of distribution of chromium in rice leaves by re-heating dual-pulse laser-induced breakdown spectroscopy and chemometric methods. Environmental Pollution, 2019, 252, 1125-1132.	3.7	28
153	Rapid Determination of Chlorogenic Acid, Luteoloside and 3,5-O-dicaffeoylquinic Acid in Chrysanthemum Using Near-Infrared Spectroscopy. Sensors, 2019, 19, 1981.	2.1	11
154	High-accuracy and fast determination of chromium content in rice leaves based on collinear dual-pulse laser-induced breakdown spectroscopy and chemometric methods. Food Chemistry, 2019, 295, 327-333.	4.2	24
155	Rapid-Detection Sensor for Rice Grain Moisture Based on NIR Spectroscopy. Applied Sciences (Switzerland), 2019, 9, 1654.	1.3	40
156	Rapid and Quantitative Determination of Sildenafil in Cocktail Based on Surface Enhanced Raman Spectroscopy. Molecules, 2019, 24, 1790.	1.7	8
157	Wind Field Distribution of Multi-rotor UAV and Its Influence on Spectral Information Acquisition of Rice Canopies. Remote Sensing, 2019, 11, 602.	1.8	9
158	Variety identification of oat seeds using hyperspectral imaging: investigating the representation ability of deep convolutional neural network. RSC Advances, 2019, 9, 12635-12644.	1.7	52
159	Rapid discrimination of the categories of the biomass pellets using laser-induced breakdown spectroscopy. Renewable Energy, 2019, 143, 176-182.	4.3	16
160	Quantitative visualization of intracellular lipids concentration in a microalgae cell based on Raman micro-spectroscopy coupled with chemometrics. Sensors and Actuators B: Chemical, 2019, 292, 7-15.	4.0	27
161	Feasibility of Laser-Induced Breakdown Spectroscopy and Hyperspectral Imaging for Rapid Detection of Thiophanate-Methyl Residue on Mulberry Fruit. International Journal of Molecular Sciences, 2019, 20, 2017.	1.8	20
162	Automated spectral feature extraction from hyperspectral images to differentiate weedy rice and barnyard grass from a rice crop. Computers and Electronics in Agriculture, 2019, 159, 42-49.	3.7	39

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163	Gold Nanoparticles for Qualitative Detection of Deltamethrin and Carbofuran Residues in Soil by Surface Enhanced Raman Scattering (SERS). International Journal of Molecular Sciences, 2019, 20, 1731.	1.8	12
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