

Jun Sun

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74
papers

792
citations

17
h-index

22
g-index

87
ext. papers

1,322
ext. citations

3.1
avg, IF

4.76
L-index

#	Paper	IF	Citations
74	Visualizing distribution of moisture content in tea leaves using optimization algorithms and NIR hyperspectral imaging. <i>Computers and Electronics in Agriculture</i> , 2019 , 160, 153-159	6.5	47
73	Hyperspectral technique combined with deep learning algorithm for detection of compound heavy metals in lettuce. <i>Food Chemistry</i> , 2020 , 321, 126503	8.5	38
72	Northern Maize Leaf Blight Detection Under Complex Field Environment Based on Deep Learning. <i>IEEE Access</i> , 2020 , 8, 33679-33688	3.5	31
71	Non-destructive detection for mold colonies in rice based on hyperspectra and GWO-SVR. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 1453-1459	4.3	31
70	A Method for Rapid Identification of Rice Origin by Hyperspectral Imaging Technology. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12297	2.4	30
69	Research and analysis of cadmium residue in tomato leaves based on WT-LSSVR and Vis-NIR hyperspectral imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 212, 215-221	4.4	29
68	Classification of Black Beans Using Visible and Near Infrared Hyperspectral Imaging. <i>International Journal of Food Properties</i> , 2016 , 19, 1687-1695	3	25
67	Tea diseases detection based on fast infrared thermal image processing technology. <i>Journal of the Science of Food and Agriculture</i> , 2019 , 99, 3459-3466	4.3	25
66	Quantitative Determination of Rice Moisture Based on Hyperspectral Imaging Technology and BCC-LS-SVR Algorithm. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12446	2.4	23
65	Visualization research of moisture content in leaf lettuce leaves based on WT-PLSR and hyperspectral imaging technology. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12647	2.4	22
64	A deep learning based regression method on hyperspectral data for rapid prediction of cadmium residue in lettuce leaves. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020 , 200, 103996	3.8	21
63	Research on moldy tea feature classification based on WKNN algorithm and NIR hyperspectral imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 206, 378-383	4.4	21
62	Quantitative detection of mixed pesticide residue of lettuce leaves based on hyperspectral technique. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12654	2.4	20
61	Discrimination of pesticide residues in lettuce based on chemical molecular structure coupled with wavelet transform and near infrared hyperspectra. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12509	2.4	19
60	Analysis of volatile compounds of Tremella aurantialba fermentation via electronic nose and HS-SPME-GC-MS. <i>Journal of Food Safety</i> , 2018 , 38, e12555	2	19
59	Discrimination of tea varieties using FTIR spectroscopy and allied Gustafson-Kessel clustering. <i>Computers and Electronics in Agriculture</i> , 2018 , 147, 64-69	6.5	18
58	Detection of viability of soybean seed based on fluorescence hyperspectra and CARS-SVM-AdaBoost model. <i>Journal of Food Processing and Preservation</i> , 2019 , 43, e14238	2.1	18

57	Classification of Apple Varieties Using Near Infrared Reflectance Spectroscopy and Fuzzy Discriminant C-Means Clustering Model. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12355	2.4	16
56	Development of deep learning method for lead content prediction of lettuce leaf using hyperspectral images. <i>International Journal of Remote Sensing</i> , 2020 , 41, 2263-2276	3.1	16
55	Grade Identification of Tieguanyin Tea Using Fluorescence Hyperspectra and Different Statistical Algorithms. <i>Journal of Food Science</i> , 2019 , 84, 2234-2241	3.4	15
54	Discrimination of Apples Using Near Infrared Spectroscopy and Sorting Discriminant Analysis. <i>International Journal of Food Properties</i> , 2016 , 19, 1016-1028	3	14
53	Nondestructive detection for egg freshness grade based on hyperspectral imaging technology. <i>Journal of Food Process Engineering</i> , 2020 , 43, e13422	2.4	14
52	Visualizing distribution of pesticide residues in mulberry leaves using NIR hyperspectral imaging. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12510	2.4	13
51	Quantitative determination of rice starch based on hyperspectral imaging technology. <i>International Journal of Food Properties</i> , 2017 , 20, S1037-S1044	3	12
50	Identification of pesticide residues in lettuce leaves based on near infrared transmission spectroscopy. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12816	2.4	12
49	Nondestructive identification of green tea varieties based on hyperspectral imaging technology. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12800	2.4	12
48	Detection of submerged fermentation of <i>Tremella aurantialba</i> using data fusion of electronic nose and tongue. <i>Journal of Food Process Engineering</i> , 2019 , 42, e13002	2.4	11
47	A portable detection method for organophosphorus and carbamates pesticide residues based on multilayer paper chip. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12867	2.4	11
46	Spectral classification of lettuce cadmium stress based on information fusion and VISSA-GOA-SVM algorithm. <i>Journal of Food Process Engineering</i> , 2019 , 42, e13085	2.4	10
45	Application of deep brief network in transmission spectroscopy detection of pesticide residues in lettuce leaves. <i>Journal of Food Process Engineering</i> , 2019 , 42, e13005	2.4	10
44	Visible-light triggered self-breathing-like dual-photoelectrode internal-driven self-powered sensor: Metal-ligand charge transfer (MLCT) induced signal-off strategy for the microcystin-LR assay. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112414	11.8	9
43	Classification of oolong tea varieties based on hyperspectral imaging technology and BOSS-LightGBM model. <i>Journal of Food Process Engineering</i> , 2019 , 42, e13289	2.4	9
42	Prediction of pork storage time using Fourier transform near infrared spectroscopy and Adaboost-ULDA. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12566	2.4	9
41	Discrimination of Chinese Liquors Based on Electronic Nose and Fuzzy Discriminant Principal Component Analysis. <i>Foods</i> , 2019 , 8,	4.9	8
40	Research of moldy tea identification based on RF-RFE-Softmax model and hyperspectra. <i>Optik</i> , 2018 , 153, 156-163	2.5	8

39	Network Structural Transformation-Based Community Detection with Autoencoder. <i>Symmetry</i> , 2020 , 12, 944	2.7	7
38	Classification detection of saccharin jujube based on hyperspectral imaging technology. <i>Journal of Food Processing and Preservation</i> , 2020 , 44, e14591	2.1	7
37	Fluorescence hyperspectral image technique coupled with HSI method to predict solanine content of potatoes. <i>Journal of Food Processing and Preservation</i> , 2019 , 43, e14198	2.1	7
36	Rapid Discrimination of Apple Varieties via Near-Infrared Reflectance Spectroscopy and Fast Allied Fuzzy C-Means Clustering. <i>International Journal of Food Engineering</i> , 2015 , 11, 23-30	1.9	7
35	Classification of Chinese vinegar varieties using electronic nose and fuzzy Foley-Sammon transformation. <i>Journal of Food Science and Technology</i> , 2020 , 57, 1310-1319	3.3	7
34	Nondestructive determination of the total mold colony count in green tea by hyperspectral imaging technology. <i>Journal of Food Process Engineering</i> , 2020 , 43, e13570	2.4	7
33	Quantitative detection of moisture content in rice seeds based on hyperspectral technique. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12916	2.4	7
32	Nondestructive detection for moisture content in green tea based on dielectric properties and VISSA-GWO-SVR algorithm. <i>Journal of Food Processing and Preservation</i> , 2020 , 44, e14421	2.1	6
31	Identification of tea varieties by mid-infrared diffuse reflectance spectroscopy coupled with a possibilistic fuzzy c-means clustering with a fuzzy covariance matrix. <i>Journal of Food Process Engineering</i> , 2019 , 42, e13298	2.4	6
30	Identification of crop diseases using improved convolutional neural networks. <i>IET Computer Vision</i> , 2020 , 14, 538-545	1.4	6
29	Quantitative Analysis of Cadmium Content in Tomato Leaves Based on Hyperspectral Image and Feature Selection. <i>Applied Engineering in Agriculture</i> , 2018 , 34, 789-798	0.8	6
28	SSC prediction of cherry tomatoes based on IRIV-CS-SVR model and near infrared reflectance spectroscopy. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12884	2.4	6
27	Classification of different kinds of pesticide residues on lettuce based on fluorescence spectra and WTBCCSVM algorithm. <i>Modern Physics Letters B</i> , 2017 , 31, 1740082	1.6	5
26	Research on apple origin classification based on variable iterative space shrinkage approach with stepwise regression support vector machine algorithm and visible-near infrared hyperspectral imaging. <i>Journal of Food Process Engineering</i> , 2020 , 43, e13432	2.4	5
25	Estimating cadmium content in lettuce leaves based on deep brief network and hyperspectral imaging technology. <i>Journal of Food Process Engineering</i> , 2019 , 42, e13293	2.4	5
24	Detection of Pesticide Residues in Mulberry Leaves Using Vis-Nir Hyperspectral Imaging Technology. <i>Journal of Residuals Science and Technology</i> , 2016 , 13, S125-S131		4
23	Research on nondestructive identification of grape varieties based on EEMD-DWT and hyperspectral image. <i>Journal of Food Science</i> , 2021 , 86, 2011-2023	3.4	4
22	Detection for lead pollution level of lettuce leaves based on deep belief network combined with hyperspectral image technology. <i>Journal of Food Safety</i> , 2021 , 41,	2	4

21	Identification of Lycium barbarum varieties based on hyperspectral imaging technique and competitive adaptive reweighted sampling - whale optimization algorithm - support vector machine. <i>Journal of Food Process Engineering</i> , 2021 , 44,	2.4	4
20	Classification of tea varieties based on fluorescence hyperspectral image technology and ABC-SVM algorithm. <i>Journal of Food Processing and Preservation</i> , 2021 , 45, e15241	2.1	4
19	Developing deep learning based regression approaches for prediction of firmness and pH in Kyoho grape using Vis/NIR hyperspectral imaging. <i>Infrared Physics and Technology</i> , 2022 , 120, 104003	2.7	3
18	Apple Leaf Disease Recognition and Sub-Class Categorization Based on Improved Multi-Scale Feature Fusion Network. <i>IEEE Access</i> , 2021 , 9, 95517-95527	3.5	3
17	Real-time detection of saponin content during the fermentation process of Tremella aurantialba using a homemade artificial olfaction system. <i>Journal of Food Process Engineering</i> , 2019 , 42, e13101	2.4	2
16	Detection of heavy metal lead in lettuce leaves based on fluorescence hyperspectral technology combined with deep learning algorithm. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 266, 120460	4.4	2
15	A method of information fusion for identification of rice seed varieties based on hyperspectral imaging technology. <i>Journal of Food Process Engineering</i> , 2021 , 44, e13797	2.4	2
14	Non-noble metal plasmonic enhanced photoelectrochemical sensing of chlorpyrifos based on 1D TiO ₂ /3D nitrogen-doped graphene hydrogel heterostructure. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 5373-5382	4.4	2
13	Nondestructive detection for egg freshness based on hyperspectral imaging technology combined with harris hawks optimization support vector regression. <i>Journal of Food Safety</i> , 2021 , 41, e12888	2	2
12	Study on pesticide residues classification of lettuce leaves based on polarization spectroscopy. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12903	2.4	2
11	Non-destructive detection of egg qualities based on hyperspectral imaging. <i>Journal of Food Engineering</i> , 2022 , 325, 111024	6	2
10	A variable selection method based on mutual information and variance inflation factor.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 268, 120652	4.4	1
9	Nondestructive detection for Panax notoginseng powder grades based on hyperspectral imaging technology combined with CARS-PCA and MPA-LSSVM. <i>Journal of Food Process Engineering</i> , 2021 , 44, e13718	2.4	1
8	Nondestructive detection of lead content in oilseed rape leaves based on MRF-HHO-SVR and hyperspectral technology. <i>Journal of Food Process Engineering</i> , 2021 , 44, e13793	2.4	1
7	Self-powered photoelectrochemical sensor for chlorpyrifos detection in fruit and vegetables based on metal-ligand charge transfer effect by TiC based Schottky junction.. <i>Food Chemistry</i> , 2022 , 385, 132731	8.5	1
6	An infrared photoinverter with a GeSe 2-D/PbSe heterostructure and its application in spectroscopy detectors. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	1
5	Wheat head counting in the wild by an augmented feature pyramid networks-based convolutional neural network. <i>Computers and Electronics in Agriculture</i> , 2022 , 193, 106705	6.5	0
4	Visualization of heavy metal cadmium in lettuce leaves based on wavelet support vector machine regression model and visible-near infrared hyperspectral imaging. <i>Journal of Food Process Engineering</i> , e13897	2.4	0

3	Classification of heavy metal Cd stress in lettuce leaves based on WPCA algorithm and fluorescence hyperspectral technology. <i>Infrared Physics and Technology</i> , 2021 , 119, 103936	2.7	○
2	Development of a portable electronic nose for in-situ detection of submerged fermentation of <i>Tremella aurantialba</i> . <i>Journal of Food Safety</i> , 2021 , 41, e12902	2	○
1	Beet seedling and weed recognition based on convolutional neural network and multi-modality images. <i>Multimedia Tools and Applications</i> , 2022 , 81, 5239-5258	2.5	○