Jun Sun

List of Publications by Year in Descending Order

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	Wheat head counting in the wild by an augmented feature pyramid networks-based convolutional neural network. *Computers and Electronics in Agriculture*, **2022**, 193, 106705	6.5	0
73	Developing deep learning based regression approaches for prediction of firmness and pH in Kyoho grape using Vis/NIR hyperspectral imaging. *Infrared Physics and Technology*, **2022**, 120, 104003	2.7	3
72	Detection of heavy metal lead in lettuce leaves based on fluorescence hyperspectral technology combined with deep learning algorithm. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 266, 120460	4.4	2
71	Non-destructive detection of egg qualities based on hyperspectral imaging. *Journal of Food Engineering*, **2022**, 325, 111024	6	2
70	Self-powered photoelectrochemical sensor for chlorpyrifos detection in fruit and vegetables based on metal-ligand charge transfer effect by TiC based Schottky junction.. *Food Chemistry*, **2022**, 385, 132731	8.5	1
69	Beet seedling and weed recognition based on convolutional neural network and multi-modality images. *Multimedia Tools and Applications*, **2022**, 81, 5239-5258	2.5	0
68	An infrared photoinverter with a GeSe 2-D/PbSe heterostructure and its application in spectroscopy detectors. *IEEE Electron Device Letters*, **2022**, 1-1	4.4	1
67	A variable selection method based on mutual information and variance inflation factor.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 268, 120652	4.4	1
66	Classification of heavy metal Cd stress in lettuce leaves based on WPCA algorithm and fluorescence hyperspectral technology. *Infrared Physics and Technology*, **2021**, 119, 103936	2.7	0
65	Development of a portable electronic nose for in-situ detection of submerged fermentation of Tremella aurantialba. *Journal of Food Safety*, **2021**, 41, e12902	2	0
64	Research on nondestructive identification of grape varieties based on EEMD-DWT and hyperspectral image. *Journal of Food Science*, **2021**, 86, 2011-2023	3.4	4
63	Nondestructive detection for Panax notoginseng powder grades based on hyperspectral imaging technology combined with CARS-PCA and MPA-LSSVM. *Journal of Food Process Engineering*, **2021**, 44, e13718	2.4	1
62	A method of information fusion for identification of rice seed varieties based on hyperspectral imaging technology. *Journal of Food Process Engineering*, **2021**, 44, e13797	2.4	2
61	Nondestructive detection of lead content in oilseed rape leaves based on MRF-HHO-SVR and hyperspectral technology. *Journal of Food Process Engineering*, **2021**, 44, e13793	2.4	1
60	Non-noble metal plasmonic enhanced photoelectrochemical sensing of chlorpyrifos based on 1D TiO/3D nitrogen-doped graphene hydrogel heterostructure. *Analytical and Bioanalytical Chemistry*, **2021**, 413, 5373-5382	4.4	2
59	Detection for lead pollution level of lettuce leaves based on deep belief network combined with hyperspectral image technology. *Journal of Food Safety*, **2021**, 41,	2	4
58	Identification of Lycium barbarum varieties based on hyperspectral imaging technique and competitive adaptive reweighted sampling - whale optimization algorithm - support vector machine. *Journal of Food Process Engineering*, **2021**, 44,	2.4	4

57	Apple Leaf Disease Recognition and Sub-Class Categorization Based on Improved Multi-Scale Feature Fusion Network. *IEEE Access*, **2021**, 9, 95517-95527	3.5	3
56	Classification of tea varieties based on fluorescence hyperspectral image technology and ABC-SVM algorithm. *Journal of Food Processing and Preservation*, **2021**, 45, e15241	2.1	4
55	Nondestructive detection for egg freshness based on hyperspectral imaging technology combined with harris hawks optimization support vector regression. *Journal of Food Safety*, **2021**, 41, e12888	2	2
54	Hyperspectral technique combined with deep learning algorithm for detection of compound heavy metals in lettuce. *Food Chemistry*, **2020**, 321, 126503	8.5	38
53	Nondestructive detection for moisture content in green tea based on dielectric properties and VISSA-GWO-SVR algorithm. *Journal of Food Processing and Preservation*, **2020**, 44, e14421	2.1	6
52	Network Structural Transformation-Based Community Detection with Autoencoder. *Symmetry*, **2020**, 12, 944	2.7	7
51	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. *Biosensors and Bioelectronics*, **2020**, 165, 112414	11.8	9
50	Classification detection of saccharin jujube based on hyperspectral imaging technology. *Journal of Food Processing and Preservation*, **2020**, 44, e14591	2.1	7
49	Northern Maize Leaf Blight Detection Under Complex Field Environment Based on Deep Learning. *IEEE Access*, **2020**, 8, 33679-33688	3.5	31
48	A deep learning based regression method on hyperspectral data for rapid prediction of cadmium residue in lettuce leaves. *Chemometrics and Intelligent Laboratory Systems*, **2020**, 200, 103996	3.8	21
47	Nondestructive detection for egg freshness grade based on hyperspectral imaging technology. *Journal of Food Process Engineering*, **2020**, 43, e13422	2.4	14
46	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. *Journal of Food Process Engineering*, **2020**, 43, e13432	2.4	5
45	Identification of crop diseases using improved convolutional neural networks. *IET Computer Vision*, **2020**, 14, 538-545	1.4	6
44	Classification of Chinese vinegar varieties using electronic nose and fuzzy Foley-Sammon transformation. *Journal of Food Science and Technology*, **2020**, 57, 1310-1319	3.3	7
43	Development of deep learning method for lead content prediction of lettuce leaf using hyperspectral images. *International Journal of Remote Sensing*, **2020**, 41, 2263-2276	3.1	16
42	Nondestructive determination of the total mold colony count in green tea by hyperspectral imaging technology. *Journal of Food Process Engineering*, **2020**, 43, e13570	2.4	7
41	Research and analysis of cadmium residue in tomato leaves based on WT-LSSVR and Vis-NIR hyperspectral imaging. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 212, 215-221	4.4	29
40	Discrimination of Chinese Liquors Based on Electronic Nose and Fuzzy Discriminant Principal Component Analysis. *Foods*, **2019**, 8,	4.9	8

39	Detection of submerged fermentation of Tremella aurantialba using data fusion of electronic nose and tongue. *Journal of Food Process Engineering*, **2019**, 42, e13002	2.4	11
38	Real-time detection of saponin content during the fermentation process of Tremella aurantialba using a homemade artificial olfaction system. *Journal of Food Process Engineering*, **2019**, 42, e13101	2.4	2
37	Spectral classification of lettuce cadmium stress based on information fusion and VISSA-GOA-SVM algorithm. *Journal of Food Process Engineering*, **2019**, 42, e13085	2.4	10
36	Visualizing distribution of moisture content in tea leaves using optimization algorithms and NIR hyperspectral imaging. *Computers and Electronics in Agriculture*, **2019**, 160, 153-159	6.5	47
35	Application of deep brief network in transmission spectroscopy detection of pesticide residues in lettuce leaves. *Journal of Food Process Engineering*, **2019**, 42, e13005	2.4	10
34	Research on moldy tea feature classification based on WKNN algorithm and NIR hyperspectral imaging. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 206, 378-383	4.4	21
33	Grade Identification of Tieguanyin Tea Using Fluorescence Hyperspectra and Different Statistical Algorithms. *Journal of Food Science*, **2019**, 84, 2234-2241	3.4	15
32	Detection of viability of soybean seed based on fluorescence hyperspectra and CARS-SVM-AdaBoost model. *Journal of Food Processing and Preservation*, **2019**, 43, e14238	2.1	18
31	Identification of tea varieties by mid-infrared diffuse reflectance spectroscopy coupled with a possibilistic fuzzy c-means clustering with a fuzzy covariance matrix. *Journal of Food Process Engineering*, **2019**, 42, e13298	2.4	6
30	Classification of oolong tea varieties based on hyperspectral imaging technology and BOSS-LightGBM model. *Journal of Food Process Engineering*, **2019**, 42, e13289	2.4	9
29	Fluorescence hyperspectral image technique coupled with HSI method to predict solanine content of potatoes. *Journal of Food Processing and Preservation*, **2019**, 43, e14198	2.1	7
28	Estimating cadmium content in lettuce leaves based on deep brief network and hyperspectral imaging technology. *Journal of Food Process Engineering*, **2019**, 42, e13293	2.4	5
27	Tea diseases detection based on fast infrared thermal image processing technology. *Journal of the Science of Food and Agriculture*, **2019**, 99, 3459-3466	4.3	25
26	Discrimination of tea varieties using FTIR spectroscopy and allied Gustafson-Kessel clustering. *Computers and Electronics in Agriculture*, **2018**, 147, 64-69	6.5	18
25	Quantitative detection of mixed pesticide residue of lettuce leaves based on hyperspectral technique. *Journal of Food Process Engineering*, **2018**, 41, e12654	2.4	20
24	Research of moldy tea identification based on RF-RFE-Softmax model and hyperspectra. *Optik*, **2018**, 153, 156-163	2.5	8
23	Non-destructive detection for mold colonies in rice based on hyperspectra and GWO-SVR. *Journal of the Science of Food and Agriculture*, **2018**, 98, 1453-1459	4.3	31
22	Identification of pesticide residues in lettuce leaves based on near infrared transmission spectroscopy. *Journal of Food Process Engineering*, **2018**, 41, e12816	2.4	12

21	Visualization research of moisture content in leaf lettuce leaves based on WT-PLSR and hyperspectral imaging technology. *Journal of Food Process Engineering*, **2018**, 41, e12647	2.4	22
20	Quantitative Analysis of Cadmium Content in Tomato Leaves Based on Hyperspectral Image and Feature Selection. *Applied Engineering in Agriculture*, **2018**, 34, 789-798	0.8	6
19	Quantitative detection of moisture content in rice seeds based on hyperspectral technique. *Journal of Food Process Engineering*, **2018**, 41, e12916	2.4	7
18	A portable detection method for organophosphorus and carbamates pesticide residues based on multilayer paper chip. *Journal of Food Process Engineering*, **2018**, 41, e12867	2.4	11
17	SSC prediction of cherry tomatoes based on IRIV-CS-SVR model and near infrared reflectance spectroscopy. *Journal of Food Process Engineering*, **2018**, 41, e12884	2.4	6
16	Study on pesticide residues classification of lettuce leaves based on polarization spectroscopy. *Journal of Food Process Engineering*, **2018**, 41, e12903	2.4	2
15	Analysis of volatile compounds of Tremella aurantialba fermentation via electronic nose and HS-SPME-GC-MS. *Journal of Food Safety*, **2018**, 38, e12555	2	19
14	Nondestructive identification of green tea varieties based on hyperspectral imaging technology. *Journal of Food Process Engineering*, **2018**, 41, e12800	2.4	12
13	Classification of Apple Varieties Using Near Infrared Reflectance Spectroscopy and Fuzzy Discriminant C-Means Clustering Model. *Journal of Food Process Engineering*, **2017**, 40, e12355	2.4	16
12	A Method for Rapid Identification of Rice Origin by Hyperspectral Imaging Technology. *Journal of Food Process Engineering*, **2017**, 40, e12297	2.4	30
11	Quantitative determination of rice starch based on hyperspectral imaging technology. *International Journal of Food Properties*, **2017**, 20, S1037-S1044	3	12
10	Discrimination of pesticide residues in lettuce based on chemical molecular structure coupled with wavelet transform and near infrared hyperspectra. *Journal of Food Process Engineering*, **2017**, 40, e12509	2.4	19
9	Classification of different kinds of pesticide residues on lettuce based on fluorescence spectra and WTBCCSVM algorithm. *Modern Physics Letters B*, **2017**, 31, 1740082	1.6	5
8	Prediction of pork storage time using Fourier transform near infrared spectroscopy and Adaboost-ULDA. *Journal of Food Process Engineering*, **2017**, 40, e12566	2.4	9
7	Visualizing distribution of pesticide residues in mulberry leaves using NIR hyperspectral imaging. *Journal of Food Process Engineering*, **2017**, 40, e12510	2.4	13
6	Quantitative Determination of Rice Moisture Based on Hyperspectral Imaging Technology and BCC-LS-SVR Algorithm. *Journal of Food Process Engineering*, **2017**, 40, e12446	2.4	23
5	Discrimination of Apples Using Near Infrared Spectroscopy and Sorting Discriminant Analysis. *International Journal of Food Properties*, **2016**, 19, 1016-1028	3	14
4	Classification of Black Beans Using Visible and Near Infrared Hyperspectral Imaging. *International Journal of Food Properties*, **2016**, 19, 1687-1695	3	25

3	Detection of Pesticide Residues in Mulberey Leaves Using Vis-Nir Hyperspectral Imaging Technology. *Journal of Residuals Science and Technology*, **2016**, 13, S125-S131		4
2	Rapid Discrimination of Apple Varieties via Near-Infrared Reflectance Spectroscopy and Fast Allied Fuzzy C-Means Clustering. *International Journal of Food Engineering*, **2015**, 11, 23-30	1.9	7
1	Visualization of heavy metal cadmium in lettuce leaves based on wavelet support vector machine regression model and visible-near infrared hyperspectral imaging. *Journal of Food Process Engineering*,e13897	2.4	0