

Shuxiang Fan

List of Publications by Year in descending order

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59
papers

2,574
citations

186265

28
h-index

197818

49
g-index

59
all docs

59
docs citations

59
times ranked

1451
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration transfer between developed portable Vis/NIR devices for detection of soluble solids contents in apple. <i>Postharvest Biology and Technology</i> , 2022, 183, 111720.	6.0	26
2	Integration of textural and spectral features of Raman hyperspectral imaging for quantitative determination of a single maize kernel mildew coupled with chemometrics. <i>Food Chemistry</i> , 2022, 372, 131246.	8.2	26
3	Variety classification of coated maize seeds based on Raman hyperspectral imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 270, 120772.	3.9	22
4	Real-time defects detection for apple sorting using NIR cameras with pruning-based YOLOV4 network. <i>Computers and Electronics in Agriculture</i> , 2022, 193, 106715.	7.7	62
5	Optimization and compensation of models on tomato soluble solids content assessment with online Vis/NIRS diffuse transmission system. <i>Infrared Physics and Technology</i> , 2022, 121, 104050.	2.9	20
6	Quantitative prediction and visual detection of the moisture content of withering leaves in black tea (<i>Camellia sinensis</i>) with hyperspectral image. <i>Infrared Physics and Technology</i> , 2022, 123, 104118.	2.9	18
7	Detection of early bruises on apples using hyperspectral imaging combining with <scp>YOLOv3</scp> deep learning algorithm. <i>Journal of Food Process Engineering</i> , 2022, 45, .	2.9	15
8	Hyperspectral imaging technology coupled with human sensory information to evaluate the fermentation degree of black tea. <i>Sensors and Actuators B: Chemical</i> , 2022, 366, 131994.	7.8	16
9	Model robustness in estimation of blueberry SSC using NIRS. <i>Computers and Electronics in Agriculture</i> , 2022, 198, 107073.	7.7	9
10	Effects of Orientations and Regions on Performance of Online Soluble Solids Content Prediction Models Based on Near-Infrared Spectroscopy for Peaches. <i>Foods</i> , 2022, 11, 1502.	4.3	4
11	Nondestructive evaluation of soluble solids content in tomato with different stage by using Vis/NIR technology and multivariate algorithms. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 248, 119139.	3.9	27
12	Maturity determination of single maize seed by using near-infrared hyperspectral imaging coupled with comparative analysis of multiple classification models. <i>Infrared Physics and Technology</i> , 2021, 112, 103596.	2.9	22
13	Application of long-wave near infrared hyperspectral imaging for determination of moisture content of single maize seed. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 254, 119666.	3.9	40
14	Detection of early decay on citrus using LW-NIR hyperspectral reflectance imaging coupled with two-band ratio and improved watershed segmentation algorithm. <i>Food Chemistry</i> , 2021, 360, 130077.	8.2	42
15	Online Detection of Watercore Apples by Vis/NIR Full-Transmittance Spectroscopy Coupled with ANOVA Method. <i>Foods</i> , 2021, 10, 2983.	4.3	7
16	Detection of early decay on citrus using hyperspectral transmittance imaging technology coupled with principal component analysis and improved watershed segmentation algorithms. <i>Postharvest Biology and Technology</i> , 2020, 161, 111071.	6.0	45
17	Multi-factor fusion models for soluble solid content detection in pear (<i>Pyrus bretschneideri</i> "Ya"™) using Vis/NIR online half-transmittance technique. <i>Infrared Physics and Technology</i> , 2020, 110, 103443.	2.9	19
18	An optimal zone combination model for on-line nondestructive prediction of soluble solids content of apple based on full-transmittance spectroscopy. <i>Biosystems Engineering</i> , 2020, 197, 64-75.	4.3	14

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19	On line detection of defective apples using computer vision system combined with deep learning methods. <i>Journal of Food Engineering</i> , 2020, 286, 110102.	5.2	154
20	Optimization and comparison of models for prediction of soluble solids content in apple by online Vis/NIR transmission coupled with diameter correction method. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 201, 104017.	3.5	28
21	Online detection of apples with moldy core using the Vis/NIR full-transmittance spectra. <i>Postharvest Biology and Technology</i> , 2020, 168, 111269.	6.0	27
22	Non-destructive discrimination of the variety of sweet maize seeds based on hyperspectral image coupled with wavelength selection algorithm. <i>Infrared Physics and Technology</i> , 2020, 109, 103418.	2.9	37
23	Non-destructive evaluation of soluble solids content of apples using a developed portable Vis/NIR device. <i>Biosystems Engineering</i> , 2020, 193, 138-148.	4.3	45
24	Non-destructive analysis of germination percentage, germination energy and simple vigour index on wheat seeds during storage by Vis/NIR and SWIR hyperspectral imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118488.	3.9	37
25	Comparison and Optimization of Models for Determination of Sugar Content in Pear by Portable Vis-NIR Spectroscopy Coupled with Wavelength Selection Algorithm. <i>Food Analytical Methods</i> , 2019, 12, 12-22.	2.6	35
26	Comparison and optimization of models for SSC on-line determination of intact apple using efficient spectrum optimization and variable selection algorithm. <i>Infrared Physics and Technology</i> , 2019, 102, 102979.	2.9	27
27	Rapid prediction and visualization of moisture content in single cucumber (<i>Cucumis sativus</i> L.) seed using hyperspectral imaging technology. <i>Infrared Physics and Technology</i> , 2019, 102, 103034.	2.9	44
28	A multi-region combined model for non-destructive prediction of soluble solids content in apple, based on brightness grade segmentation of hyperspectral imaging. <i>Biosystems Engineering</i> , 2019, 183, 110-120.	4.3	27
29	Recent advances in emerging techniques for non-destructive detection of seed viability: A review. <i>Artificial Intelligence in Agriculture</i> , 2019, 1, 35-47.	6.0	73
30	Nondestructive measurement of soluble solids content in apple using near infrared hyperspectral imaging coupled with wavelength selection algorithm. <i>Infrared Physics and Technology</i> , 2019, 98, 297-304.	2.9	87
31	Long-term evaluation of soluble solids content of apples with biological variability by using near-infrared spectroscopy and calibration transfer method. <i>Postharvest Biology and Technology</i> , 2019, 151, 79-87.	6.0	98
32	Effect of spectral measurement orientation on online prediction of soluble solids content of apple using Vis/NIR diffuse reflectance. <i>Infrared Physics and Technology</i> , 2019, 97, 467-477.	2.9	30
33	Prediction and Comparison of Models for Soluble Solids Content Determination in 'Ya'™ Pears Using Optical Properties and Diffuse Reflectance in 900-1700 nm Spectral Region. <i>IEEE Access</i> , 2019, 7, 179199-179211.	4.2	8
34	Early detection of decay on apples using hyperspectral reflectance imaging combining both principal component analysis and improved watershed segmentation method. <i>Postharvest Biology and Technology</i> , 2019, 149, 235-246.	6.0	79
35	Rapid and visual detection of the main chemical compositions in maize seeds based on Raman hyperspectral imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 200, 186-194.	3.9	40
36	Quality of Vegetable Products: Assessment of Physical, Chemical, and Microbiological Changes in Vegetable Products by Nondestructive Methods. , 2018, , 113-159.		0

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37	A bi-layer model for nondestructive prediction of soluble solids content in apple based on reflectance spectra and peel pigments. <i>Food Chemistry</i> , 2018, 239, 1055-1063.	8.2	54
38	Effect of fruit moving speed on online prediction of soluble solids content of apple using Vis/NIR diffuse transmission. <i>Journal of Food Process Engineering</i> , 2018, 41, e12915.	2.9	15
39	Data Fusion of Two Hyperspectral Imaging Systems with Complementary Spectral Sensing Ranges for Blueberry Bruising Detection. <i>Sensors</i> , 2018, 18, 4463.	3.8	35
40	Assessment of multiregion local models for detection of SSC of whole peach (<i>Amygdalus Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627</i>) of <i>Food Process Engineering</i> , 2018, 41, e12914.	2.9	10
41	Detection of blueberry internal bruising over time using NIR hyperspectral reflectance imaging with optimum wavelengths. <i>Postharvest Biology and Technology</i> , 2017, 134, 55-66.	6.0	80
42	<i>Data fusion of two hyperspectral imaging systems for blueberry bruising detection</i>. , 2017, , .		2
43	<i>Optical properties of healthy and bruised blueberry tissues in the near-infrared spectral region</i>. , 2017, , .		1
44	Profile of ABSL Group of NRCIEA and NERCITA, BAAFS, China. <i>NIR News</i> , 2016, 27, 22-24.	0.3	0
45	Prediction of soluble solids content of apple using the combination of spectra and textural features of hyperspectral reflectance imaging data. <i>Postharvest Biology and Technology</i> , 2016, 121, 51-61.	6.0	71
46	Fast detection and visualization of early decay in citrus using Vis-NIR hyperspectral imaging. <i>Computers and Electronics in Agriculture</i> , 2016, 127, 582-592.	7.7	110
47	Design and Implementation of an Automatic Grading System of Diced Potatoes Based on Machine Vision. <i>IFIP Advances in Information and Communication Technology</i> , 2016, , 202-216.	0.7	2
48	Comparison of Four Types of Raman Spectroscopy for Noninvasive Determination of Carotenoids in Agricultural Products. <i>IFIP Advances in Information and Communication Technology</i> , 2016, , 237-247.	0.7	1
49	Using Vis/NIR Diffuse Transmittance Spectroscopy and Multivariate Analysis to Predicate Soluble Solids Content of Apple. <i>Food Analytical Methods</i> , 2016, 9, 1333-1343.	2.6	31
50	Application of Long-Wave Near Infrared Hyperspectral Imaging for Measurement of Soluble Solid Content (SSC) in Pear. <i>Food Analytical Methods</i> , 2016, 9, 3087-3098.	2.6	51
51	Effect of spectrum measurement position variation on the robustness of NIR spectroscopy models for soluble solids content of apple. <i>Biosystems Engineering</i> , 2016, 143, 9-19.	4.3	108
52	Multispectral detection of skin defects of bi-colored peaches based on vis"NIR hyperspectral imaging. <i>Postharvest Biology and Technology</i> , 2016, 112, 121-133.	6.0	85
53	Penetration Depth of Near-Infrared Light in Small, Thin-Skin Watermelon. <i>IFIP Advances in Information and Communication Technology</i> , 2016, , 194-201.	0.7	1
54	Detection of Early Rottenness on Apples by Using Hyperspectral Imaging Combined with Spectral Analysis and Image Processing. <i>Food Analytical Methods</i> , 2015, 8, 2075-2086.	2.6	42

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55	Prediction of Soluble Solids Content and Firmness of Pears Using Hyperspectral Reflectance Imaging. <i>Food Analytical Methods</i> , 2015, 8, 1936-1946.	2.6	90
56	Hyperspectral imaging combined with multivariate analysis and band math for detection of common defects on peaches (<i>Prunus persica</i>). <i>Computers and Electronics in Agriculture</i> , 2015, 114, 14-24.	7.7	66
57	Development of a Hyperspectral Imaging System for the Early Detection of Apple Rottenness Caused by <i>Penicillium</i> . <i>Journal of Food Process Engineering</i> , 2015, 38, 499-509.	2.9	11
58	Principles, developments and applications of computer vision for external quality inspection of fruits and vegetables: A review. <i>Food Research International</i> , 2014, 62, 326-343.	6.2	332
59	Variable Selection in Visible and Near-Infrared Spectral Analysis for Noninvasive Determination of Soluble Solids Content of 'Ya' Pear. <i>Food Analytical Methods</i> , 2014, 7, 1891-1902.	2.6	66