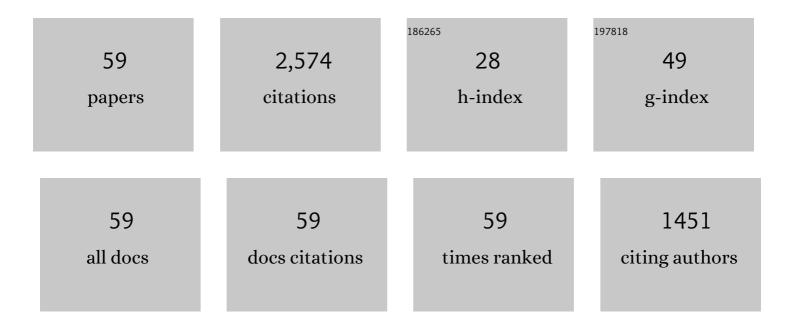
List of Publications by Year in descending order

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SHUYIANC FAN

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Principles, developments and applications of computer vision for external quality inspection of fruits and vegetables: A review. Food Research International, 2014, 62, 326-343. | 6.2 | 332 |
| 2 | On line detection of defective apples using computer vision system combined with deep learning methods. Journal of Food Engineering, 2020, 286, 110102. | 5.2 | 154 |
| 3 | Fast detection and visualization of early decay in citrus using Vis-NIR hyperspectral imaging. Computers and Electronics in Agriculture, 2016, 127, 582-592. | 7.7 | 110 |
| 4 | Effect of spectrum measurement position variation on the robustness of NIR spectroscopy models for soluble solids content of apple. Biosystems Engineering, 2016, 143, 9-19. | 4.3 | 108 |
| 5 | Long-term evaluation of soluble solids content of apples with biological variability by using near-infrared spectroscopy and calibration transfer method. Postharvest Biology and Technology, 2019, 151, 79-87. | 6.0 | 98 |
| 6 | Prediction of Soluble Solids Content and Firmness of Pears Using Hyperspectral Reflectance Imaging. Food Analytical Methods, 2015, 8, 1936-1946. | 2.6 | 90 |
| 7 | Nondestructive measurement of soluble solids content in apple using near infrared hyperspectral imaging coupled with wavelength selection algorithm. Infrared Physics and Technology, 2019, 98, 297-304. | 2.9 | 87 |
| 8 | Multispectral detection of skin defects of bi-colored peaches based on vis–NIR hyperspectral imaging. Postharvest Biology and Technology, 2016, 112, 121-133. | 6.0 | 85 |
| 9 | Detection of blueberry internal bruising over time using NIR hyperspectral reflectance imaging with optimum wavelengths. Postharvest Biology and Technology, 2017, 134, 55-66. | 6.0 | 80 |
| 10 | Early detection of decay on apples using hyperspectral reflectance imaging combining both principal component analysis and improved watershed segmentation method. Postharvest Biology and Technology, 2019, 149, 235-246. | 6.0 | 79 |
| 11 | Recent advances in emerging techniques for non-destructive detection of seed viability: A review. Artificial Intelligence in Agriculture, 2019, 1, 35-47. | 6.0 | 73 |
| 12 | Prediction of soluble solids content of apple using the combination of spectra and textural features of hyperspectral reflectance imaging data. Postharvest Biology and Technology, 2016, 121, 51-61. | 6.0 | 71 |
| 13 | Variable Selection in Visible and Near-Infrared Spectral Analysis for Noninvasive Determination of Soluble Solids Content of †Ya' Pear. Food Analytical Methods, 2014, 7, 1891-1902. | 2.6 | 66 |
| 14 | Hyperspectral imaging combined with multivariate analysis and band math for detection of common defects on peaches (Prunus persica). Computers and Electronics in Agriculture, 2015, 114, 14-24. | 7.7 | 66 |
| 15 | Real-time defects detection for apple sorting using NIR cameras with pruning-based YOLOV4 network. Computers and Electronics in Agriculture, 2022, 193, 106715. | 7.7 | 62 |
| 16 | A bi-layer model for nondestructive prediction of soluble solids content in apple based on reflectance spectra and peel pigments. Food Chemistry, 2018, 239, 1055-1063. | 8.2 | 54 |
| 17 | Application of Long-Wave Near Infrared Hyperspectral Imaging for Measurement of Soluble Solid Content (SSC) in Pear. Food Analytical Methods, 2016, 9, 3087-3098. | 2.6 | 51 |
| 18 | Detection of early decay on citrus using hyperspectral transmittance imaging technology coupled with principal component analysis and improved watershed segmentation algorithms. Postharvest Biology and Technology, 2020, 161, 111071. | 6.0 | 45 |

| # | Article | IF | CITATIONS |
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| 19 | Non-destructive evaluation of soluble solids content of apples using a developed portable Vis/NIR device. Biosystems Engineering, 2020, 193, 138-148. | 4.3 | 45 |
| 20 | Rapid prediction and visualization of moisture content in single cucumber (Cucumis sativus L.) seed using hyperspectral imaging technology. Infrared Physics and Technology, 2019, 102, 103034. | 2.9 | 44 |
| 21 | Detection of Early Rottenness on Apples by Using Hyperspectral Imaging Combined with Spectral Analysis and Image Processing. Food Analytical Methods, 2015, 8, 2075-2086. | 2.6 | 42 |
| 22 | Detection of early decay on citrus using LW-NIR hyperspectral reflectance imaging coupled with two-band ratio and improved watershed segmentation algorithm. Food Chemistry, 2021, 360, 130077. | 8.2 | 42 |
| 23 | Rapid and visual detection of the main chemical compositions in maize seeds based on Raman hyperspectral imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 200, 186-194. | 3.9 | 40 |
| 24 | Application of long-wave near infrared hyperspectral imaging for determination of moisture content of single maize seed. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 254, 119666. | 3.9 | 40 |
| 25 | Non-destructive discrimination of the variety of sweet maize seeds based on hyperspectral image coupled with wavelength selection algorithm. Infrared Physics and Technology, 2020, 109, 103418. | 2.9 | 37 |
| 26 | Non-destructive analysis of germination percentage, germination energy and simple vigour index on wheat seeds during storage by Vis/NIR and SWIR hyperspectral imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118488. | 3.9 | 37 |
| 27 | Data Fusion of Two Hyperspectral Imaging Systems with Complementary Spectral Sensing Ranges for Blueberry Bruising Detection. Sensors, 2018, 18, 4463. | 3.8 | 35 |
| 28 | Comparison and Optimization of Models for Determination of Sugar Content in Pear by Portable Vis-NIR Spectroscopy Coupled with Wavelength Selection Algorithm. Food Analytical Methods, 2019, 12, 12-22. | 2.6 | 35 |
| 29 | Using Vis/NIR Diffuse Transmittance Spectroscopy and Multivariate Analysis to Predicate Soluble Solids Content of Apple. Food Analytical Methods, 2016, 9, 1333-1343. | 2.6 | 31 |
| 30 | Effect of spectral measurement orientation on online prediction of soluble solids content of apple using Vis/NIR diffuse reflectance. Infrared Physics and Technology, 2019, 97, 467-477. | 2.9 | 30 |
| 31 | Optimization and comparison of models for prediction of soluble solids content in apple by online Vis/NIR transmission coupled with diameter correction method. Chemometrics and Intelligent Laboratory Systems, 2020, 201, 104017. | 3.5 | 28 |
| 32 | Comparison and optimization of models for SSC on-line determination of intact apple using efficient spectrum optimization and variable selection algorithm. Infrared Physics and Technology, 2019, 102, 102979. | 2.9 | 27 |
| 33 | A multi-region combined model for non-destructive prediction of soluble solids content in apple, based on brightness grade segmentation of hyperspectral imaging. Biosystems Engineering, 2019, 183, 110-120. | 4.3 | 27 |
| 34 | Online detection of apples with moldy core using the Vis/NIR full-transmittance spectra. Postharvest Biology and Technology, 2020, 168, 111269. | 6.0 | 27 |
| 35 | Nondestructive evaluation of soluble solids content in tomato with different stage by using Vis/NIR technology and multivariate algorithms. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119139. | 3.9 | 27 |
| 36 | Calibration transfer between developed portable Vis/NIR devices for detection of soluble solids contents in apple. Postharvest Biology and Technology, 2022, 183, 111720. | 6.0 | 26 |

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| 37 | Integration of textural and spectral features of Raman hyperspectral imaging for quantitative determination of a single maize kernel mildew coupled with chemometrics. Food Chemistry, 2022, 372, 131246. | 8.2 | 26 |
| 38 | Maturity determination of single maize seed by using near-infrared hyperspectral imaging coupled with comparative analysis of multiple classification models. Infrared Physics and Technology, 2021, 112, 103596. | 2.9 | 22 |
| 39 | Variety classification of coated maize seeds based on Raman hyperspectral imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120772. | 3.9 | 22 |
| 40 | Optimization and compensation of models on tomato soluble solids content assessment with online Vis/NIRS diffuse transmission system. Infrared Physics and Technology, 2022, 121, 104050. | 2.9 | 20 |
| 41 | Multi-factor fusion models for soluble solid content detection in pear (Pyrus bretschneideri â€~Ya') using Vis/NIR online half-transmittance technique. Infrared Physics and Technology, 2020, 110, 103443. | 2.9 | 19 |
| 42 | Quantitative prediction and visual detection of the moisture content of withering leaves in black tea (Camellia sinensis) with hyperspectral image. Infrared Physics and Technology, 2022, 123, 104118. | 2.9 | 18 |
| 43 | Hyperspectral imaging technology coupled with human sensory information to evaluate the fermentation degree of black tea. Sensors and Actuators B: Chemical, 2022, 366, 131994. | 7.8 | 16 |
| 44 | Effect of fruit moving speed on online prediction of soluble solids content of apple using Vis/NIR diffuse transmission. Journal of Food Process Engineering, 2018, 41, e12915. | 2.9 | 15 |
| 45 | Detection of early bruises on apples using hyperspectral imaging combining with <scp>YOLOv3</scp> deep learning algorithm. Journal of Food Process Engineering, 2022, 45, . | 2.9 | 15 |
| 46 | An optimal zone combination model for on-line nondestructive prediction of soluble solids content of apple based on full-transmittance spectroscopy. Biosystems Engineering, 2020, 197, 64-75. | 4.3 | 14 |
| 47 | Development of a Hyperspectral Imaging System for the Early Detection of Apple Rottenness Caused by <scp><i>P</i></scp> <i>enicillium</i> . Journal of Food Process Engineering, 2015, 38, 499-509. | 2.9 | 11 |
| 48 | Assessment of multiregion local models for detection of SSC of whole peach (<i>Amygdalus) Tj ETQq0 0 0 rgBT of Food Process Engineering, 2018, 41, e12914.</i> | /Overlock 2.9 | 10 Tf 50 307 10 |
| 49 | Model robustness in estimation of blueberry SSC using NIRS. Computers and Electronics in Agriculture, 2022, 198, 107073. | 7.7 | 9 |
| 50 | 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. IEEE Access, 2019, 7, 179199-179211. | 4.2 | 8 |
| 51 | Online Detection of Watercore Apples by Vis/NIR Full-Transmittance Spectroscopy Coupled with ANOVA Method. Foods, 2021, 10, 2983. | 4.3 | 7 |
| 52 | Effects of Orientations and Regions on Performance of Online Soluble Solids Content Prediction Models Based on Near-Infrared Spectroscopy for Peaches. Foods, 2022, 11, 1502. | 4.3 | 4 |
| 53 | Design and Implementation of an Automatic Grading System of Diced Potatoes Based on Machine Vision. IFIP Advances in Information and Communication Technology, 2016, , 202-216. | 0.7 | 2 |
| 54 | <i>Data fusion of two hyperspectral imaging systems for blueberry bruising detection</i> . , 2017, , . | | 2 |

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|----|---|-----|-----------|
| 55 | Comparison of Four Types of Raman Spectroscopy for Noninvasive Determination of Carotenoids in Agricultural Products. IFIP Advances in Information and Communication Technology, 2016, , 237-247. | 0.7 | 1 |
| 56 | <i>Optical properties of healthy and bruised blueberry tissues in the near-infrared spectral region</i> . , 2017, , . | | 1 |
| 57 | Penetration Depth of Near-Infrared Light in Small, Thin-Skin Watermelon. IFIP Advances in Information and Communication Technology, 2016, , 194-201. | 0.7 | 1 |
| 58 | Profile of ABSL Group of NRCIEA and NERCITA, BAAFS, China. NIR News, 2016, 27, 22-24. | 0.3 | 0 |
| 59 | Quality of Vegetable Products: Assessment of Physical, Chemical, and Microbiological Changes in Vegetable Products by Nondestructive Methods. , 2018, , 113-159. | | 0 |