

Yibin Ying

List of Publications by Year in descending order

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401
papers

20,223
citations

7069

78
h-index

17546

121
g-index

403
all docs

403
docs citations

403
times ranked

20778
citing authors

#	ARTICLE	IF	CITATIONS
1	Near infrared spectroscopy for on/in-line monitoring of quality in foods and beverages: A review. <i>Journal of Food Engineering</i> , 2008, 87, 303-313.	2.7	453
2	Bioinspired Design of Ultrathin 2D Bimetallic Metal-Organic Framework Nanosheets Used as Biomimetic Enzymes. <i>Advanced Materials</i> , 2016, 28, 4149-4155.	11.1	440
3	Simultaneous determination of ascorbic acid, dopamine and uric acid using high-performance screen-printed graphene electrode. <i>Biosensors and Bioelectronics</i> , 2012, 34, 70-76.	5.3	375
4	Self-Assembly of Single-Layer CoAl-Layered Double Hydroxide Nanosheets on 3D Graphene Network Used as Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2016, 28, 7640-7645.	11.1	355
5	Recent advances in nanomaterial-based biosensors for antibiotics detection. <i>Biosensors and Bioelectronics</i> , 2017, 91, 504-514.	5.3	328
6	All-electrospun flexible triboelectric nanogenerator based on metallic MXene nanosheets. <i>Nano Energy</i> , 2019, 59, 268-276.	8.2	314
7	Mechanisms and applications of terahertz metamaterial sensing: a review. <i>Nanoscale</i> , 2017, 9, 13864-13878.	2.8	299
8	Recent advances in solid-contact ion-selective electrodes: functional materials, transduction mechanisms, and development trends. <i>Chemical Society Reviews</i> , 2020, 49, 4405-4465.	18.7	257
9	New Trends in Impedimetric Biosensors for the Detection of Foodborne Pathogenic Bacteria. <i>Sensors</i> , 2012, 12, 3449-3471.	2.1	220
10	Direct electrochemical reduction of graphene oxide on ionic liquid doped screen-printed electrode and its electrochemical biosensing application. <i>Biosensors and Bioelectronics</i> , 2011, 28, 204-209.	5.3	219
11	Applications of Raman Spectroscopy in Agricultural Products and Food Analysis: A Review. <i>Applied Spectroscopy Reviews</i> , 2011, 46, 539-560.	3.4	217
12	Immunosensors for detection of pesticide residues. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1577-1587.	5.3	213
13	Recent Advances in Sensing Applications of Two-Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites. <i>Advanced Functional Materials</i> , 2017, 27, 1605817.	7.8	206
14	Conventional and emerging detection techniques for pathogenic bacteria in food science: A review. <i>Trends in Food Science and Technology</i> , 2018, 81, 61-73.	7.8	205
15	DeepSpectra: An end-to-end deep learning approach for quantitative spectral analysis. <i>Analytica Chimica Acta</i> , 2019, 1058, 48-57.	2.6	201
16	Recent advances in nanomaterial-enabled screen-printed electrochemical sensors for heavy metal detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 115, 187-202.	5.8	189
17	One-step and large-scale fabrication of flexible and wearable humidity sensor based on laser-induced graphene for real-time tracking of plant transpiration at bio-interface. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112360.	5.3	186
18	Impedimetric immunosensor based on gold nanoparticles modified graphene paper for label-free detection of <i>Escherichia coli</i> O157:H7. <i>Biosensors and Bioelectronics</i> , 2013, 49, 492-498.	5.3	183

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19	Comparison of MoS ₂ , WS ₂ , and Graphene Oxide for DNA Adsorption and Sensing. <i>Langmuir</i> , 2017, 33, 630-637.	1.6	179
20	Multifunctional Janus Hematite@Silica Nanoparticles: Mimicking Peroxidase-Like Activity and Sensitive Colorimetric Detection of Glucose. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 15395-15402.	4.0	178
21	Polymer Nanofibers Embedded with Aligned Gold Nanorods: A New Platform for Plasmonic Studies and Optical Sensing. <i>Nano Letters</i> , 2012, 12, 3145-3150.	4.5	177
22	Application of Electrochemically Reduced Graphene Oxide on Screen-Printed Ion-Selective Electrode. <i>Analytical Chemistry</i> , 2012, 84, 3473-3479.	3.2	173
23	Recent advances in the rational synthesis and sensing applications of metal-organic framework biocomposites. <i>Coordination Chemistry Reviews</i> , 2019, 387, 60-78.	9.5	172
24	Deep learning for vibrational spectral analysis: Recent progress and a practical guide. <i>Analytica Chimica Acta</i> , 2019, 1081, 6-17.	2.6	165
25	Self-reduction bimetallic nanoparticles on ultrathin MXene nanosheets as functional platform for pesticide sensing. <i>Journal of Hazardous Materials</i> , 2020, 384, 121358.	6.5	160
26	Development of an electrochemically reduced graphene oxide modified disposable bismuth film electrode and its application for stripping analysis of heavy metals in milk. <i>Food Chemistry</i> , 2014, 151, 65-71.	4.2	158
27	Recent developments in carbon nanomaterial-enabled electrochemical sensors for nitrite detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 113, 1-12.	5.8	158
28	Wearable plasmonic-metamaterial sensor for noninvasive and universal molecular fingerprint detection on biointerfaces. <i>Science Advances</i> , 2021, 7, .	4.7	157
29	Terahertz biosensing with a graphene-metamaterial heterostructure platform. <i>Carbon</i> , 2019, 141, 247-252.	5.4	156
30	Quantification of glucose, fructose and sucrose in bayberry juice by NIR and PLS. <i>Food Chemistry</i> , 2009, 114, 1135-1140.	4.2	155
31	A multifunctional and highly flexible triboelectric nanogenerator based on MXene-enabled porous film integrated with laser-induced graphene electrode. <i>Nano Energy</i> , 2019, 66, 104121.	8.2	155
32	Photonic Nanowires: From Subwavelength Waveguides to Optical Sensors. <i>Accounts of Chemical Research</i> , 2014, 47, 656-666.	7.6	150
33	Development of an all-solid-state potassium ion-selective electrode using graphene as the solid-contact transducer. <i>Electrochemistry Communications</i> , 2011, 13, 1529-1532.	2.3	145
34	Effect of food to microorganism ratio on biohydrogen production from food waste via anaerobic fermentation. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6968-6975.	3.8	143
35	Extraordinary sensitivity enhancement by metasurfaces in terahertz detection of antibiotics. <i>Scientific Reports</i> , 2015, 5, 8671.	1.6	135
36	Recent Advances in Nanomaterial-Enabled Wearable Sensors: Material Synthesis, Sensor Design, and Personal Health Monitoring. <i>Small</i> , 2020, 16, e2002681.	5.2	133

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37	Monitoring of Escherichia coli O157:H7 in food samples using lectin based surface plasmon resonance biosensor. Food Chemistry, 2013, 136, 1303-1308.	4.2	132
38	Poly-cytosine DNA as a High-Affinity Ligand for Inorganic Nanomaterials. Angewandte Chemie - International Edition, 2017, 56, 6208-6212.	7.2	132
39	Carbon nanomaterial-enabled pesticide biosensors: Design strategy, biosensing mechanism, and practical application. TrAC - Trends in Analytical Chemistry, 2018, 106, 62-83.	5.8	131
40	Recent Progress in Nanomaterial-Based Optical Aptamer Assay for the Detection of Food Chemical Contaminants. ACS Applied Materials & Interfaces, 2017, 9, 23287-23301.	4.0	129
41	Recent Development of Nano-Materials Used in DNA Biosensors. Sensors, 2009, 9, 5534-5557.	2.1	127
42	A simple and rapid optical biosensor for detection of aflatoxin B1 based on competitive dispersion of gold nanorods. Biosensors and Bioelectronics, 2013, 47, 361-367.	5.3	126
43	Detection of common defects on oranges using hyperspectral reflectance imaging. Computers and Electronics in Agriculture, 2011, 78, 38-48.	3.7	123
44	Comparison of Graphene Oxide and Reduced Graphene Oxide for DNA Adsorption and Sensing. Langmuir, 2016, 32, 10776-10783.	1.6	123
45	Near-infrared Spectroscopy in detecting Leaf Miner Damage on Tomato Leaf. Biosystems Engineering, 2007, 96, 447-454.	1.9	121
46	Biomimetic preparation of hybrid membranes with ultra-high loading of pristine metal-organic frameworks grown on silk nanofibers for hazardous collection in water. Journal of Materials Chemistry A, 2018, 6, 3402-3413.	5.2	120
47	The Detection of Agricultural Products and Food Using Terahertz Spectroscopy: A Review. Applied Spectroscopy Reviews, 2013, 48, 439-457.	3.4	119
48	Solution-Phase Synthesis of Platinum Nanoparticle-Decorated Metal-Organic Framework Hybrid Nanomaterials as Biomimetic Nanoenzymes for Biosensing Applications. ACS Applied Materials & Interfaces, 2018, 10, 24108-24115.	4.0	117
49	The Application of Terahertz Spectroscopy to Protein Detection: A Review. Applied Spectroscopy Reviews, 2014, 49, 448-461.	3.4	115
50	Discrimination of transgenic tomatoes based on visible/near-infrared spectra. Analytica Chimica Acta, 2007, 584, 379-384.	2.6	113
51	Smart plant-wearable biosensor for in-situ pesticide analysis. Biosensors and Bioelectronics, 2020, 170, 112636.	5.3	111
52	Determination of Amino Acids in Chinese Rice Wine by Fourier Transform Near-Infrared Spectroscopy. Journal of Agricultural and Food Chemistry, 2010, 58, 9809-9816.	2.4	110
53	Detection of melamine in milk powders based on NIR hyperspectral imaging and spectral similarity analyses. Journal of Food Engineering, 2014, 124, 97-104.	2.7	108
54	High-performance terahertz wave absorbers made of silicon-based metamaterials. Applied Physics Letters, 2015, 107, .	1.5	108

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55	Highly Efficient Raindrop Energy-Based Triboelectric Nanogenerator for Self-Powered Intelligent Greenhouse. <i>ACS Nano</i> , 2021, 15, 12314-12323.	7.3	106
56	Variable selection in visible and near-infrared spectra: Application to on-line determination of sugar content in pears. <i>Journal of Food Engineering</i> , 2012, 109, 142-147.	2.7	105
57	Gold Nanoparticle-Based Terahertz Metamaterial Sensors: Mechanisms and Applications. <i>ACS Photonics</i> , 2016, 3, 2308-2314.	3.2	103
58	A deep learning approach to conflating heterogeneous geospatial data for corn yield estimation: A case study of the US Corn Belt at the county level. <i>Global Change Biology</i> , 2020, 26, 1754-1766.	4.2	103
59	Label-free terahertz microfluidic biosensor for sensitive DNA detection using graphene-metasurface hybrid structures. <i>Biosensors and Bioelectronics</i> , 2021, 188, 113336.	5.3	101
60	Food Safety Evaluation Based on Near Infrared Spectroscopy and Imaging: A Review. <i>Critical Reviews in Food Science and Nutrition</i> , 2016, 56, 1913-1924.	5.4	100
61	Facing Challenges in Real-Life Application of Surface-Enhanced Raman Scattering: Design and Nanofabrication of Surface-Enhanced Raman Scattering Substrates for Rapid Field Test of Food Contaminants. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 6525-6543.	2.4	99
62	Laser-induced noble metal nanoparticle-graphene composites enabled flexible biosensor for pathogen detection. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111896.	5.3	99
63	Breathable Nanogenerators for an On-Plant Self-Powered Sustainable Agriculture System. <i>ACS Nano</i> , 2021, 15, 5307-5315.	7.3	99
64	Spontaneous growth and regulation of noble metal nanoparticles on flexible biomimetic MXene paper for bioelectronics. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111799.	5.3	95
65	Evaluation of different micro/nanobeads used as amplifiers in QCM immunosensor for more sensitive detection of <i>E. coli</i> O157:H7. <i>Biosensors and Bioelectronics</i> , 2011, 29, 23-28.	5.3	94
66	Highly conductive 1D-2D composite film for skin-mountable strain sensor and stretchable triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 62, 319-328.	8.2	93
67	Reproducible <i>E. coli</i> detection based on label-free SERS and mapping. <i>Talanta</i> , 2016, 146, 457-463.	2.9	92
68	Copper oxide nanoparticles and ionic liquid modified carbon electrode for the non-enzymatic electrochemical sensing of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2010, 171, 117-123.	2.5	91
69	Mechanisms and applications of carbon nanotubes in terahertz devices: A review. <i>Carbon</i> , 2018, 132, 42-58.	5.4	88
70	A high-sensitivity terahertz spectroscopy technology for tetracycline hydrochloride detection using metamaterials. <i>Food Chemistry</i> , 2016, 211, 300-305.	4.2	87
71	Agricultural robotics research applicable to poultry production: A review. <i>Computers and Electronics in Agriculture</i> , 2020, 169, 105216.	3.7	87
72	A feasibility study on on-line determination of rice wine composition by Vis-NIR spectroscopy and least-squares support vector machines. <i>Food Chemistry</i> , 2009, 113, 291-296.	4.2	86

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73	Variable selection for partial least squares analysis of soluble solids content in watermelon using near-infrared diffuse transmission technique. <i>Journal of Food Engineering</i> , 2013, 118, 387-392.	2.7	86
74	Room-temperature high-precision printing of flexible wireless electronics based on MXene inks. <i>Nature Communications</i> , 2022, 13, .	5.8	86
75	Discrimination Between Shaoxing Wines and Other Chinese Rice Wines by Near-Infrared Spectroscopy and Chemometrics. <i>Food and Bioprocess Technology</i> , 2012, 5, 786-795.	2.6	85
76	A multifunctional TENG yarn integrated into agrotextile for building intelligent agriculture. <i>Nano Energy</i> , 2020, 74, 104863.	8.2	85
77	Label-free capacitive immunosensor based on quartz crystal Au electrode for rapid and sensitive detection of <i>Escherichia coli</i> O157:H7. <i>Analytica Chimica Acta</i> , 2011, 687, 89-96.	2.6	83
78	Liquid-phase growth of platinum nanoparticles on molybdenum trioxide nanosheets: an enhanced catalyst with intrinsic peroxidase-like catalytic activity. <i>Nanoscale</i> , 2014, 6, 12340-12344.	2.8	82
79	Towards interpreting multi-temporal deep learning models in crop mapping. <i>Remote Sensing of Environment</i> , 2021, 264, 112599.	4.6	82
80	Research advances in nondestructive determination of internal quality in watermelon/melon: A review. <i>Journal of Food Engineering</i> , 2010, 100, 569-577.	2.7	81
81	Comparison of diffuse reflectance and transmission mode of visible-near infrared spectroscopy for detecting brown heart of pear. <i>Journal of Food Engineering</i> , 2007, 83, 317-323.	2.7	79
82	Food and agro-product quality evaluation based on spectroscopy and deep learning: A review. <i>Trends in Food Science and Technology</i> , 2021, 112, 431-441.	7.8	79
83	Quantification of Chlorophyll Content and Classification of Nontransgenic and Transgenic Tomato Leaves Using Visible/Near-Infrared Diffuse Reflectance Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 4645-4650.	2.4	78
84	Electrochemical Conversion of Fe ₃ O ₄ Magnetic Nanoparticles to Electroactive Prussian Blue Analogues for Self-Sacrificial Label Biosensing of Avian Influenza Virus H5N1. <i>Analytical Chemistry</i> , 2017, 89, 12145-12151.	3.2	77
85	Computer vision detection of foreign objects in walnuts using deep learning. <i>Computers and Electronics in Agriculture</i> , 2019, 162, 1001-1010.	3.7	77
86	Use of FT-NIR spectrometry in non-invasive measurements of internal quality of "Fuji" apples. <i>Postharvest Biology and Technology</i> , 2005, 37, 65-71.	2.9	76
87	Subtractive Inhibition Assay for the Detection of <i>E. coli</i> O157:H7 Using Surface Plasmon Resonance. <i>Sensors</i> , 2011, 11, 2728-2739.	2.1	76
88	Determination of tetracycline hydrochloride by terahertz spectroscopy with PLSR model. <i>Food Chemistry</i> , 2015, 170, 415-422.	4.2	76
89	Comparison of the HPLC Method and FT-NIR Analysis for Quantification of Glucose, Fructose, and Sucrose in Intact Apple Fruits. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 2810-2815.	2.4	75
90	Effect of fruit moving speed on predicting soluble solids content of "Cuiguan" pears (Pomaceae) Tj ETQq0 0 0 rgBT /Overlock 10 T 2009, 51, 86-90.	2.9	75

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91	Prediction of sugars and acids in Chinese rice wine by mid-infrared spectroscopy. <i>Food Research International</i> , 2011, 44, 1521-1527.	2.9	75
92	Effect of ammonia and nitrate on biogas production from food waste via anaerobic digestion. <i>Biosystems Engineering</i> , 2013, 116, 205-212.	1.9	75
93	Recognition of clustered tomatoes based on binocular stereo vision. <i>Computers and Electronics in Agriculture</i> , 2014, 106, 75-90.	3.7	75
94	Instant, Visual, and Instrument-Free Method for On-Site Screening of GTS 40-3-2 Soybean Based on Body-Heat Triggered Recombinase Polymerase Amplification. <i>Analytical Chemistry</i> , 2017, 89, 4413-4418.	3.2	75
95	Fully stretchable triboelectric nanogenerator for energy harvesting and self-powered sensing. <i>Nano Energy</i> , 2019, 61, 78-85.	8.2	75
96	Theory and application of near infrared spectroscopy in assessment of fruit quality: a review. <i>Sensing and Instrumentation for Food Quality and Safety</i> , 2009, 3, 130-141.	1.5	74
97	Using visible and near infrared diffuse transmittance technique to predict soluble solids content of watermelon in an on-line detection system. <i>Postharvest Biology and Technology</i> , 2014, 90, 1-6.	2.9	74
98	Designed inorganic nanomaterials for intrinsic peroxidase mimics: A review. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 18-34.	4.0	74
99	Understanding the learning mechanism of convolutional neural networks in spectral analysis. <i>Analytica Chimica Acta</i> , 2020, 1119, 41-51.	2.6	74
100	A target-responsive and size-dependent hydrogel aptasensor embedded with QD fluorescent reporters for rapid detection of avian influenza virus H5N1. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 98-108.	4.0	72
101	Development of Methods for Determination of Aflatoxins. <i>Critical Reviews in Food Science and Nutrition</i> , 2016, 56, 2642-2664.	5.4	72
102	Stimulation of ambient energy generated electric field on crop plant growth. <i>Nature Food</i> , 2022, 3, 133-142.	6.2	70
103	Prediction of titratable acidity, malic acid, and citric acid in bayberry fruit by near-infrared spectroscopy. <i>Food Research International</i> , 2011, 44, 2198-2204.	2.9	69
104	Phase-Dependent Fluorescence Quenching Efficiency of MoS ₂ Nanosheets and Their Applications in Multiplex Target Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42009-42017.	4.0	68
105	Transition Metal Dichalcogenide-Silk Nanofibril Membrane for One-Step Water Purification and Precious Metal Recovery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24521-24530.	4.0	68
106	Microbial Biosensors for Environmental Monitoring and Food Analysis. <i>Food Reviews International</i> , 2011, 27, 300-329.	4.3	67
107	A stretchable and conductive fiber for multifunctional sensing and energy harvesting. <i>Nano Energy</i> , 2021, 84, 105954.	8.2	67
108	Structural design of metal-organic frameworks with tunable colorimetric responses for visual sensing applications. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214102.	9.5	67

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109	Classification of tomatoes with different genotypes by visible and short-wave near-infrared spectroscopy with least-squares support vector machines and other chemometrics. <i>Journal of Food Engineering</i> , 2009, 94, 34-39.	2.7	66
110	Heteronanostructure of Ag particle on titanate nanowire membrane with enhanced photocatalytic properties and bactericidal activities. <i>Journal of Hazardous Materials</i> , 2010, 178, 1109-1114.	6.5	66
111	Spectroscopy-based food classification with extreme learning machine. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 139, 42-47.	1.8	66
112	Rapid Fabrication of Flexible and Stretchable Strain Sensor by Chitosan-Based Water Ink for Plants Growth Monitoring. <i>Advanced Materials Technologies</i> , 2017, 2, 1700021.	3.0	65
113	A self-charging device with bionic self-cleaning interface for energy harvesting. <i>Nano Energy</i> , 2020, 73, 104738.	8.2	65
114	Automatic detection of common surface defects on oranges using combined lighting transform and image ratio methods. <i>Postharvest Biology and Technology</i> , 2013, 82, 59-69.	2.9	62
115	Flexible Plasmonic Metasurfaces with User-Designed Patterns for Molecular Sensing and Cryptography. <i>Advanced Functional Materials</i> , 2016, 26, 5515-5523.	7.8	62
116	High-performance flexible potentiometric sensing devices using free-standing graphene paper. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4781.	2.9	60
117	Nitrite-Triggered Surface Plasmon-Assisted Catalytic Conversion of <i>p</i> -Aminothiophenol to <i>p</i> -Dimercaptoazobenzene on Gold Nanoparticle: Surface-Enhanced Raman Scattering Investigation and Potential for Nitrite Detection. <i>Analytical Chemistry</i> , 2015, 87, 499-506.	3.2	60
118	Multidimensional SERS Barcodes on Flexible Patterned Plasmonic Metafilm for Anticounterfeiting Applications. <i>Advanced Optical Materials</i> , 2016, 4, 1475-1480.	3.6	60
119	One-Step and Spontaneous in Situ Growth of Popcorn-like Nanostructures on Stretchable Double-Twisted Fiber for Ultrasensitive Textile Pressure Sensor. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10689-10696.	4.0	60
120	Recent Progress in 2D-Nanomaterial-Based Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2021, 31, 2009994.	7.8	60
121	Discrimination between Chinese rice wines of different geographical origins by NIRS and AAS. <i>European Food Research and Technology</i> , 2007, 225, 313-320.	1.6	59
122	Development of an ionic liquid modified screen-printed graphite electrode and its sensing in determination of dopamine. <i>Electrochemistry Communications</i> , 2010, 12, 1738-1741.	2.3	59
123	Colorimetric aggregation assay for kanamycin using gold nanoparticles modified with hairpin DNA probes and hybridization chain reaction-assisted amplification. <i>Mikrochimica Acta</i> , 2019, 186, 448.	2.5	59
124	Metamaterial-Free Flexible Graphene-Enabled Terahertz Sensors for Pesticide Detection at Bio-Interface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44281-44287.	4.0	59
125	Analysis of Sugars in Chinese Rice Wine by Fourier Transform Near-Infrared Spectroscopy with Partial Least-Squares Regression. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 7271-7278.	2.4	58
126	Quality and safety assessment of food and agricultural products by hyperspectral fluorescence imaging. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 2397-2408.	1.7	58

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127	Evaluation of Trace Heavy Metal Levels in Soil Samples Using an Ionic Liquid Modified Carbon Paste Electrode. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 4418-4423.	2.4	57
128	Feasibility of Terahertz Time-Domain Spectroscopy to Detect Tetracyclines Hydrochloride in Infant Milk Powder. <i>Analytical Chemistry</i> , 2014, 86, 11750-11757.	3.2	57
129	Colorimetric Sensor Array for Thiols Discrimination Based on Urease-Metal Ion Pairs. <i>Analytical Chemistry</i> , 2016, 88, 8542-8547.	3.2	56
130	Peach variety detection using VIS-NIR spectroscopy and deep learning. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105553.	3.7	56
131	On-site variety discrimination of tomato plant using visible-near infrared reflectance spectroscopy. <i>Journal of Zhejiang University: Science B</i> , 2009, 10, 126-132.	1.3	55
132	Nanobody Based Immunoassay for Human Soluble Epoxide Hydrolase Detection Using Polymeric Horseradish Peroxidase (PolyHRP) for Signal Enhancement: The Rediscovery of PolyHRP?. <i>Analytical Chemistry</i> , 2017, 89, 6248-6256.	3.2	55
133	Ultrahigh-Sensitivity Molecular Sensing with Carbon Nanotube Terahertz Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40629-40634.	4.0	55
134	Nondestructive measurement of internal quality in pear using genetic algorithms and FT-NIR spectroscopy. <i>Journal of Food Engineering</i> , 2008, 84, 206-213.	2.7	54
135	Biotriboelectric Nanogenerators: Materials, Structures, and Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2002001.	10.2	54
136	Combination and comparison of chemometrics methods for identification of transgenic tomatoes using visible and near-infrared diffuse transmittance technique. <i>Journal of Food Engineering</i> , 2007, 82, 395-401.	2.7	53
137	Computer vision detection of surface defect on oranges by means of a sliding comparison window local segmentation algorithm. <i>Computers and Electronics in Agriculture</i> , 2017, 137, 59-68.	3.7	53
138	Wireless Technologies for Energy Harvesting and Transmission for Ambient Self-Powered Systems. <i>ACS Nano</i> , 2021, 15, 9328-9354.	7.3	53
139	An amperometric sensor based on Prussian blue and poly(o-phenylenediamine) modified glassy carbon electrode for the determination of hydrogen peroxide in beverages. <i>Food Chemistry</i> , 2011, 126, 2005-2009.	4.2	51
140	Terahertz sensing of chlorpyrifos-methyl using metamaterials. <i>Food Chemistry</i> , 2017, 218, 330-334.	4.2	51
141	Overview of imaging methods based on terahertz time-domain spectroscopy. <i>Applied Spectroscopy Reviews</i> , 2022, 57, 249-264.	3.4	51
142	Ageing status characterization of Chinese rice wines using chemical descriptors combined with multivariate data analysis. <i>Food Control</i> , 2012, 25, 458-463.	2.8	50
143	Recent advances in sensing applications of metal nanoparticle/metal-organic framework composites. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116395.	5.8	50
144	Terahertz spectroscopic imaging with discriminant analysis for detecting foreign materials among sausages. <i>Food Control</i> , 2019, 97, 100-104.	2.8	49

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145	Shear Exfoliated Metal-Organic Framework Nanosheet-Enabled Flexible Sensor for Real-Time Monitoring of Superoxide Anion. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5429-5436.	4.0	49
146	Cohabiting Plant-Wearable Sensor In Situ Monitors Water Transport in Plant. <i>Advanced Science</i> , 2021, 8, 2003642.	5.6	49
147	All-solid-state nitrate-selective electrode and its application in drinking water. <i>Electrochimica Acta</i> , 2012, 81, 186-190.	2.6	48
148	Determination of ascorbic acid levels in food samples by using an ionic liquid-carbon nanotube composite electrode. <i>Food Chemistry</i> , 2012, 135, 362-367.	4.2	46
149	Covalent linking DNA to graphene oxide and its comparison with physisorbed probes for Hg ²⁺ detection. <i>Biosensors and Bioelectronics</i> , 2016, 79, 244-250.	5.3	46
150	In-field detection of multiple pathogenic bacteria in food products using a portable fluorescent biosensing system. <i>Food Control</i> , 2017, 75, 21-28.	2.8	46
151	Multivariate classification of rice wines according to ageing time and brand based on amino acid profiles. <i>Food Chemistry</i> , 2011, 129, 565-569.	4.2	45
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