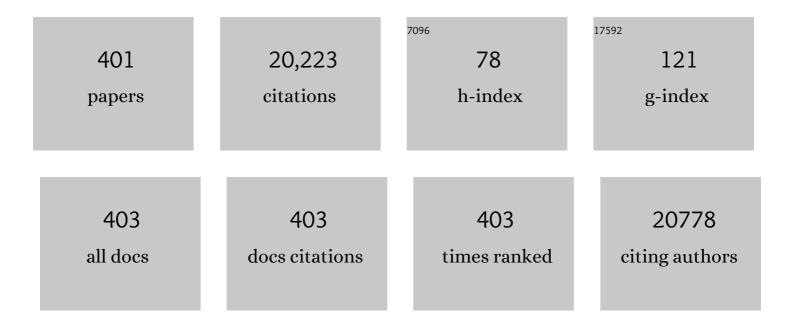
Yibin Ying

List of Publications by Year in descending order

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VIRIN VINC

#	Article	IF	CITATIONS
1	Near infrared spectroscopy for on/in-line monitoring of quality in foods and beverages: A review. Journal of Food Engineering, 2008, 87, 303-313.	5.2	453
2	Bioinspired Design of Ultrathin 2D Bimetallic Metal–Organicâ€Framework Nanosheets Used as Biomimetic Enzymes. Advanced Materials, 2016, 28, 4149-4155.	21.0	440
3	Simultaneous determination of ascorbic acid, dopamine and uric acid using high-performance screen-printed graphene electrode. Biosensors and Bioelectronics, 2012, 34, 70-76.	10.1	375
4	Selfâ€Assembly of Singleâ€Layer CoAlâ€Layered Double Hydroxide Nanosheets on 3D Graphene Network Used as Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. Advanced Materials, 2016, 28, 7640-7645.	21.0	355
5	Recent advances in nanomaterial-based biosensors for antibiotics detection. Biosensors and Bioelectronics, 2017, 91, 504-514.	10.1	328
6	All-electrospun flexible triboelectric nanogenerator based on metallic MXene nanosheets. Nano Energy, 2019, 59, 268-276.	16.0	314
7	Mechanisms and applications of terahertz metamaterial sensing: a review. Nanoscale, 2017, 9, 13864-13878.	5.6	299
8	Recent advances in solid-contact ion-selective electrodes: functional materials, transduction mechanisms, and development trends. Chemical Society Reviews, 2020, 49, 4405-4465.	38.1	257
9	New Trends in Impedimetric Biosensors for the Detection of Foodborne Pathogenic Bacteria. Sensors, 2012, 12, 3449-3471.	3.8	220
10	Direct electrochemical reduction of graphene oxide on ionic liquid doped screen-printed electrode and its electrochemical biosensing application. Biosensors and Bioelectronics, 2011, 28, 204-209.	10.1	219
11	Applications of Raman Spectroscopy in Agricultural Products and Food Analysis: A Review. Applied Spectroscopy Reviews, 2011, 46, 539-560.	6.7	217
12	Immunosensors for detection of pesticide residues. Biosensors and Bioelectronics, 2008, 23, 1577-1587.	10.1	213
13	Recent Advances in Sensing Applications of Twoâ€Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites. Advanced Functional Materials, 2017, 27, 1605817.	14.9	206
14	Conventional and emerging detection techniques for pathogenic bacteria in food science: A review. Trends in Food Science and Technology, 2018, 81, 61-73.	15.1	205
15	DeepSpectra: An end-to-end deep learning approach for quantitative spectral analysis. Analytica Chimica Acta, 2019, 1058, 48-57.	5.4	201
16	Recent advances in nanomaterial-enabled screen-printed electrochemical sensors for heavy metal detection. TrAC - Trends in Analytical Chemistry, 2019, 115, 187-202.	11.4	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. Biosensors and Bioelectronics, 2020, 165, 112360.	10.1	186
18	Impedimetric immunosensor based on gold nanoparticles modified graphene paper for label-free detection of Escherichia coli O157:H7. Biosensors and Bioelectronics, 2013, 49, 492-498.	10.1	183

#	Article	IF	CITATIONS
19	Comparison of MoS ₂ , WS ₂ , and Graphene Oxide for DNA Adsorption and Sensing. Langmuir, 2017, 33, 630-637.	3.5	179
20	Multifunctional Janus Hematite–Silica Nanoparticles: Mimicking Peroxidase-Like Activity and Sensitive Colorimetric Detection of Glucose. ACS Applied Materials & Interfaces, 2015, 7, 15395-15402.	8.0	178
21	Polymer Nanofibers Embedded with Aligned Gold Nanorods: A New Platform for Plasmonic Studies and Optical Sensing. Nano Letters, 2012, 12, 3145-3150.	9.1	177
22	Application of Electrochemically Reduced Graphene Oxide on Screen-Printed Ion-Selective Electrode. Analytical Chemistry, 2012, 84, 3473-3479.	6.5	173
23	Recent advances in the rational synthesis and sensing applications of metal-organic framework biocomposites. Coordination Chemistry Reviews, 2019, 387, 60-78.	18.8	172
24	Deep learning for vibrational spectral analysis: Recent progress and a practical guide. Analytica Chimica Acta, 2019, 1081, 6-17.	5.4	165
25	Self-reduction bimetallic nanoparticles on ultrathin MXene nanosheets as functional platform for pesticide sensing. Journal of Hazardous Materials, 2020, 384, 121358.	12.4	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. Food Chemistry, 2014, 151, 65-71.	8.2	158
27	Recent developments in carbon nanomaterial-enabled electrochemical sensors for nitrite detection. TrAC - Trends in Analytical Chemistry, 2019, 113, 1-12.	11.4	158
28	Wearable plasmonic-metasurface sensor for noninvasive and universal molecular fingerprint detection on biointerfaces. Science Advances, 2021, 7, .	10.3	157
29	Terahertz biosensing with a graphene-metamaterial heterostructure platform. Carbon, 2019, 141, 247-252.	10.3	156
30	Quantification of glucose, fructose and sucrose in bayberry juice by NIR and PLS. Food Chemistry, 2009, 114, 1135-1140.	8.2	155
31	A multifunctional and highly flexible triboelectric nanogenerator based on MXene-enabled porous film integrated with laser-induced graphene electrode. Nano Energy, 2019, 66, 104121.	16.0	155
32	Photonic Nanowires: From Subwavelength Waveguides to Optical Sensors. Accounts of Chemical Research, 2014, 47, 656-666.	15.6	150
33	Development of an all-solid-state potassium ion-selective electrode using graphene as the solid-contact transducer. Electrochemistry Communications, 2011, 13, 1529-1532.	4.7	145
34	Effect of food to microorganism ratio on biohydrogen production from food waste via anaerobic fermentation. International Journal of Hydrogen Energy, 2008, 33, 6968-6975.	7.1	143
35	Extraordinary sensitivity enhancement by metasurfaces in terahertz detection of antibiotics. Scientific Reports, 2015, 5, 8671.	3.3	135
36	Recent Advances in Nanomaterialâ€Enabled Wearable Sensors: Material Synthesis, Sensor Design, and Personal Health Monitoring. Small, 2020, 16, e2002681.	10.0	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.	8.2	132
38	Poly ytosine DNA as a Highâ€Affinity Ligand for Inorganic Nanomaterials. Angewandte Chemie - International Edition, 2017, 56, 6208-6212.	13.8	132
39	Carbon nanomaterial-enabled pesticide biosensors: Design strategy, biosensing mechanism, and practical application. TrAC - Trends in Analytical Chemistry, 2018, 106, 62-83.	11.4	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.	8.0	129
41	Recent Development of Nano-Materials Used in DNA Biosensors. Sensors, 2009, 9, 5534-5557.	3.8	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.	10.1	126
43	Detection of common defects on oranges using hyperspectral reflectance imaging. Computers and Electronics in Agriculture, 2011, 78, 38-48.	7.7	123
44	Comparison of Graphene Oxide and Reduced Graphene Oxide for DNA Adsorption and Sensing. Langmuir, 2016, 32, 10776-10783.	3.5	123
45	Near-infrared Spectroscopy in detecting Leaf Miner Damage on Tomato Leaf. Biosystems Engineering, 2007, 96, 447-454.	4.3	121
46	Biomineralization-mimetic preparation of hybrid membranes with ultra-high loading of pristine metal–organic frameworks grown on silk nanofibers for hazard collection in water. Journal of Materials Chemistry A, 2018, 6, 3402-3413.	10.3	120
47	The Detection of Agricultural Products and Food Using Terahertz Spectroscopy: A Review. Applied Spectroscopy Reviews, 2013, 48, 439-457.	6.7	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.	8.0	117
49	The Application of Terahertz Spectroscopy to Protein Detection: A Review. Applied Spectroscopy Reviews, 2014, 49, 448-461.	6.7	115
50	Discrimination of transgenic tomatoes based on visible/near-infrared spectra. Analytica Chimica Acta, 2007, 584, 379-384.	5.4	113
51	Smart plant-wearable biosensor for in-situ pesticide analysis. Biosensors and Bioelectronics, 2020, 170, 112636.	10.1	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.	5.2	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.	5.2	108
54	High-performance terahertz wave absorbers made of silicon-based metamaterials. Applied Physics Letters, 2015, 107, .	3.3	108

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55	Highly Efficient Raindrop Energy-Based Triboelectric Nanogenerator for Self-Powered Intelligent Greenhouse. ACS Nano, 2021, 15, 12314-12323.	14.6	106
56	Variable selection in visible and near-infrared spectra: Application to on-line determination of sugar content in pears. Journal of Food Engineering, 2012, 109, 142-147.	5.2	105
57	Gold Nanoparticle-Based Terahertz Metamaterial Sensors: Mechanisms and Applications. ACS Photonics, 2016, 3, 2308-2314.	6.6	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. Global Change Biology, 2020, 26, 1754-1766.	9.5	103
59	Label-free terahertz microfluidic biosensor for sensitive DNA detection using graphene-metasurface hybrid structures. Biosensors and Bioelectronics, 2021, 188, 113336.	10.1	101
60	Food Safety Evaluation Based on Near Infrared Spectroscopy and Imaging: A Review. Critical Reviews in Food Science and Nutrition, 2016, 56, 1913-1924.	10.3	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. Journal of Agricultural and Food Chemistry, 2018, 66, 6525-6543.	5.2	99
62	Laser-induced noble metal nanoparticle-graphene composites enabled flexible biosensor for pathogen detection. Biosensors and Bioelectronics, 2020, 150, 111896.	10.1	99
63	Breathable Nanogenerators for an On-Plant Self-Powered Sustainable Agriculture System. ACS Nano, 2021, 15, 5307-5315.	14.6	99
64	Spontaneous growth and regulation of noble metal nanoparticles on flexible biomimetic MXene paper for bioelectronics. Biosensors and Bioelectronics, 2020, 148, 111799.	10.1	95
65	Evaluation of different micro/nanobeads used as amplifiers in QCM immunosensor for more sensitive detection of E. coli O157:H7. Biosensors and Bioelectronics, 2011, 29, 23-28.	10.1	94
66	Highly conductive 1D-2D composite film for skin-mountable strain sensor and stretchable triboelectric nanogenerator. Nano Energy, 2019, 62, 319-328.	16.0	93
67	Reproducible E. coli detection based on label-free SERS and mapping. Talanta, 2016, 146, 457-463.	5.5	92
68	Copper oxide nanoparticles and ionic liquid modified carbon electrode for the non-enzymatic electrochemical sensing of hydrogen peroxide. Mikrochimica Acta, 2010, 171, 117-123.	5.0	91
69	Mechanisms and applications of carbon nanotubes in terahertz devices: A review. Carbon, 2018, 132, 42-58.	10.3	88
70	A high-sensitivity terahertz spectroscopy technology for tetracycline hydrochloride detection using metamaterials. Food Chemistry, 2016, 211, 300-305.	8.2	87
71	Agricultural robotics research applicable to poultry production: A review. Computers and Electronics in Agriculture, 2020, 169, 105216.	7.7	87
72	A feasibility study on on-line determination of rice wine composition by Vis–NIR spectroscopy and least-squares support vector machines. Food Chemistry, 2009, 113, 291-296.	8.2	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. Journal of Food Engineering, 2013, 118, 387-392.	5.2	86
74	Room-temperature high-precision printing of flexible wireless electronics based on MXene inks. Nature Communications, 2022, 13, .	12.8	86
75	Discrimination Between Shaoxing Wines and Other Chinese Rice Wines by Near-Infrared Spectroscopy and Chemometrics. Food and Bioprocess Technology, 2012, 5, 786-795.	4.7	85
76	A multifunctional TENG yarn integrated into agrotextile for building intelligent agriculture. Nano Energy, 2020, 74, 104863.	16.0	85
77	Label-free capacitive immunosensor based on quartz crystal Au electrode for rapid and sensitive detection of Escherichia coli O157:H7. Analytica Chimica Acta, 2011, 687, 89-96.	5.4	83
78	Liquid-phase growth of platinum nanoparticles on molybdenum trioxide nanosheets: an enhanced catalyst with intrinsic peroxidase-like catalytic activity. Nanoscale, 2014, 6, 12340-12344.	5.6	82
79	Towards interpreting multi-temporal deep learning models in crop mapping. Remote Sensing of Environment, 2021, 264, 112599.	11.0	82
80	Research advances in nondestructive determination of internal quality in watermelon/melon: A review. Journal of Food Engineering, 2010, 100, 569-577.	5.2	81
81	Comparison of diffuse reflectance and transmission mode of visible-near infrared spectroscopy for detecting brown heart of pear. Journal of Food Engineering, 2007, 83, 317-323.	5.2	79
82	Food and agro-product quality evaluation based on spectroscopy and deep learning: A review. Trends in Food Science and Technology, 2021, 112, 431-441.	15.1	79
83	Quantification of Chlorophyll Content and Classification of Nontransgenic and Transgenic Tomato Leaves Using Visible/Near-Infrared Diffuse Reflectance Spectroscopy. Journal of Agricultural and Food Chemistry, 2007, 55, 4645-4650.	5.2	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. Analytical Chemistry, 2017, 89, 12145-12151.	6.5	77
85	Computer vision detection of foreign objects in walnuts using deep learning. Computers and Electronics in Agriculture, 2019, 162, 1001-1010.	7.7	77
86	Use of FT-NIR spectrometry in non-invasive measurements of internal quality of â€~Fuji' apples. Postharvest Biology and Technology, 2005, 37, 65-71.	6.0	76
87	Subtractive Inhibition Assay for the Detection of E. coli O157:H7 Using Surface Plasmon Resonance. Sensors, 2011, 11, 2728-2739.	3.8	76
88	Determination of tetracycline hydrochloride by terahertz spectroscopy with PLSR model. Food Chemistry, 2015, 170, 415-422.	8.2	76
89	Comparison of the HPLC Method and FT-NIR Analysis for Quantification of Glucose, Fructose, and Sucrose in Intact Apple Fruits. Journal of Agricultural and Food Chemistry, 2006, 54, 2810-2815.	5.2	75
	Effect of fruit moving speed on predicting soluble solids content of â€~Cuiguan' pears (Pomaceae) Ti ETC	00000rgBT/	Overlock 10

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#	Article	lF	CITATIONS
91	Prediction of sugars and acids in Chinese rice wine by mid-infrared spectroscopy. Food Research International, 2011, 44, 1521-1527.	6.2	75
92	Effect of ammonia and nitrate on biogas production from food waste via anaerobic digestion. Biosystems Engineering, 2013, 116, 205-212.	4.3	75
93	Recognition of clustered tomatoes based on binocular stereo vision. Computers and Electronics in Agriculture, 2014, 106, 75-90.	7.7	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. Analytical Chemistry, 2017, 89, 4413-4418.	6.5	75
95	Fully stretchable triboelectric nanogenerator for energy harvesting and self-powered sensing. Nano Energy, 2019, 61, 78-85.	16.0	75
96	Theory and application of near infrared spectroscopy in assessment of fruit quality: a review. Sensing and Instrumentation for Food Quality and Safety, 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. Postharvest Biology and Technology, 2014, 90, 1-6.	6.0	74
98	Designed inorganic nanomaterials for intrinsic peroxidase mimics: A review. Sensors and Actuators B: Chemical, 2019, 283, 18-34.	7.8	74
99	Understanding the learning mechanism of convolutional neural networks in spectral analysis. Analytica Chimica Acta, 2020, 1119, 41-51.	5.4	74
100	A target-responsive and size-dependent hydrogel aptasensor embedded with QD fluorescent reporters for rapid detection of avian influenza virus H5N1. Sensors and Actuators B: Chemical, 2016, 234, 98-108.	7.8	72
101	Development of Methods for Determination of Aflatoxins. Critical Reviews in Food Science and Nutrition, 2016, 56, 2642-2664.	10.3	72
102	Stimulation of ambient energy generated electric field on crop plant growth. Nature Food, 2022, 3, 133-142.	14.0	70
103	Prediction of titratable acidity, malic acid, and citric acid in bayberry fruit by near-infrared spectroscopy. Food Research International, 2011, 44, 2198-2204.	6.2	69
104	Phase-Dependent Fluorescence Quenching Efficiency of MoS ₂ Nanosheets and Their Applications in Multiplex Target Biosensing. ACS Applied Materials & Interfaces, 2018, 10, 42009-42017.	8.0	68
105	Transition Metal Dichalcogenide–Silk Nanofibril Membrane for One-Step Water Purification and Precious Metal Recovery. ACS Applied Materials & Interfaces, 2020, 12, 24521-24530.	8.0	68
106	Microbial Biosensors for Environmental Monitoring and Food Analysis. Food Reviews International, 2011, 27, 300-329.	8.4	67
107	A stretchable and conductive fiber for multifunctional sensing and energy harvesting. Nano Energy, 2021, 84, 105954.	16.0	67
108	Structural design of metal–organic frameworks with tunable colorimetric responses for visual sensing applications. Coordination Chemistry Reviews, 2021, 446, 214102.	18.8	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. Journal of Food Engineering, 2009, 94, 34-39.	5.2	66
110	Heteronanostructure of Ag particle on titanate nanowire membrane with enhanced photocatalytic properties and bactericidal activities. Journal of Hazardous Materials, 2010, 178, 1109-1114.	12.4	66
111	Spectroscopy-based food classification with extreme learning machine. Chemometrics and Intelligent Laboratory Systems, 2014, 139, 42-47.	3.5	66
112	Rapid Fabrication of Flexible and Stretchable Strain Sensor by Chitosanâ€Based Water Ink for Plants Growth Monitoring. Advanced Materials Technologies, 2017, 2, 1700021.	5.8	65
113	A self-charging device with bionic self-cleaning interface for energy harvesting. Nano Energy, 2020, 73, 104738.	16.0	65
114	Automatic detection of common surface defects on oranges using combined lighting transform and image ratio methods. Postharvest Biology and Technology, 2013, 82, 59-69.	6.0	62
115	Flexible Plasmonic Metasurfaces with Userâ€Designed Patterns for Molecular Sensing and Cryptography. Advanced Functional Materials, 2016, 26, 5515-5523.	14.9	62
116	High-performance flexible potentiometric sensing devices using free-standing graphene paper. Journal of Materials Chemistry B, 2013, 1, 4781.	5.8	60
117	Nitrite-Triggered Surface Plasmon-Assisted Catalytic Conversion of <i>p</i> -Aminothiophenol to <i>p</i> , <i>p</i> â+2-Dimercaptoazobenzene on Gold Nanoparticle: Surface-Enhanced Raman Scattering Investigation and Potential for Nitrite Detection. Analytical Chemistry, 2015, 87, 499-506.	6.5	60
118	Multidimensional SERS Barcodes on Flexible Patterned Plasmonic Metafilm for Anticounterfeiting Applications. Advanced Optical Materials, 2016, 4, 1475-1480.	7.3	60
119	One-Step and Spontaneous in Situ Growth of Popcorn-like Nanostructures on Stretchable Double-Twisted Fiber for Ultrasensitive Textile Pressure Sensor. ACS Applied Materials & Interfaces, 2020, 12, 10689-10696.	8.0	60
120	Recent Progress in 2Dâ€Nanomaterialâ€Based Triboelectric Nanogenerators. Advanced Functional Materials, 2021, 31, 2009994.	14.9	60
121	Discrimination between Chinese rice wines of different geographical origins by NIRS and AAS. European Food Research and Technology, 2007, 225, 313-320.	3.3	59
122	Development of an ionic liquid modified screen-printed graphite electrode and its sensing in determination of dopamine. Electrochemistry Communications, 2010, 12, 1738-1741.	4.7	59
123	Colorimetric aggregation assay for kanamycin using gold nanoparticles modified with hairpin DNA probes and hybridization chain reaction-assisted amplification. Mikrochimica Acta, 2019, 186, 448.	5.0	59
124	Metamaterial-Free Flexible Graphene-Enabled Terahertz Sensors for Pesticide Detection at Bio-Interface. ACS Applied Materials & Interfaces, 2020, 12, 44281-44287.	8.0	59
125	Analysis of Sugars in Chinese Rice Wine by Fourier Transform Near-Infrared Spectroscopy with Partial Least-Squares Regression. Journal of Agricultural and Food Chemistry, 2008, 56, 7271-7278.	5.2	58
126	Quality and safety assessment of food and agricultural products by hyperspectral fluorescence imaging. Journal of the Science of Food and Agriculture, 2012, 92, 2397-2408.	3.5	58

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127	Evaluation of Trace Heavy Metal Levels in Soil Samples Using an Ionic Liquid Modified Carbon Paste Electrode. Journal of Agricultural and Food Chemistry, 2011, 59, 4418-4423.	5.2	57
128	Feasibility of Terahertz Time-Domain Spectroscopy to Detect Tetracyclines Hydrochloride in Infant Milk Powder. Analytical Chemistry, 2014, 86, 11750-11757.	6.5	57
129	Colorimetric Sensor Array for Thiols Discrimination Based on Urease–Metal Ion Pairs. Analytical Chemistry, 2016, 88, 8542-8547.	6.5	56
130	Peach variety detection using VIS-NIR spectroscopy and deep learning. Computers and Electronics in Agriculture, 2020, 175, 105553.	7.7	56
131	On-site variety discrimination of tomato plant using visible-near infrared reflectance spectroscopy. Journal of Zhejiang University: Science B, 2009, 10, 126-132.	2.8	55
132	Nanobody Based Immunoassay for Human Soluble Epoxide Hydrolase Detection Using Polymeric Horseradish Peroxidase (PolyHRP) for Signal Enhancement: The Rediscovery of PolyHRP?. Analytical Chemistry, 2017, 89, 6248-6256.	6.5	55
133	Ultrahigh-Sensitivity Molecular Sensing with Carbon Nanotube Terahertz Metamaterials. ACS Applied Materials & Interfaces, 2020, 12, 40629-40634.	8.0	55
134	Nondestructive measurement of internal quality in pear using genetic algorithms and FT-NIR spectroscopy. Journal of Food Engineering, 2008, 84, 206-213.	5.2	54
135	Biotriboelectric Nanogenerators: Materials, Structures, and Applications. Advanced Energy Materials, 2020, 10, 2002001.	19.5	54
136	Combination and comparison of chemometrics methods for identification of transgenic tomatoes using visible and near-infrared diffuse transmittance technique. Journal of Food Engineering, 2007, 82, 395-401.	5.2	53
137	Computer vision detection of surface defect on oranges by means of a sliding comparison window local segmentation algorithm. Computers and Electronics in Agriculture, 2017, 137, 59-68.	7.7	53
138	Wireless Technologies for Energy Harvesting and Transmission for Ambient Self-Powered Systems. ACS Nano, 2021, 15, 9328-9354.	14.6	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. Food Chemistry, 2011, 126, 2005-2009.	8.2	51
140	Terahertz sensing of chlorpyrifos-methyl using metamaterials. Food Chemistry, 2017, 218, 330-334.	8.2	51
141	Overview of imaging methods based on terahertz time-domain spectroscopy. Applied Spectroscopy Reviews, 2022, 57, 249-264.	6.7	51
142	Ageing status characterization of Chinese rice wines using chemical descriptors combined with multivariate data analysis. Food Control, 2012, 25, 458-463.	5.5	50
143	Recent advances in sensing applications of metal nanoparticle/metal–organic framework composites. TrAC - Trends in Analytical Chemistry, 2021, 143, 116395.	11.4	50
144	Terahertz spectroscopic imaging with discriminant analysis for detecting foreign materials among sausages. Food Control, 2019, 97, 100-104.	5.5	49

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145	Shear Exfoliated Metal–Organic Framework Nanosheet-Enabled Flexible Sensor for Real-Time Monitoring of Superoxide Anion. ACS Applied Materials & Interfaces, 2020, 12, 5429-5436.	8.0	49
146	Cohabiting Plantâ€Wearable Sensor In Situ Monitors Water Transport in Plant. Advanced Science, 2021, 8, 2003642.	11.2	49
147	All-solid-state nitrate-selective electrode and its application in drinking water. Electrochimica Acta, 2012, 81, 186-190.	5.2	48
148	Determination of ascorbic acid levels in food samples by using an ionic liquid–carbon nanotube composite electrode. Food Chemistry, 2012, 135, 362-367.	8.2	46
149	Covalent linking DNA to graphene oxide and its comparison with physisorbed probes for Hg2+ detection. Biosensors and Bioelectronics, 2016, 79, 244-250.	10.1	46
150	In-field detection of multiple pathogenic bacteria in food products using a portable fluorescent biosensing system. Food Control, 2017, 75, 21-28.	5.5	46
151	Multivariate classification of rice wines according to ageing time and brand based on amino acid profiles. Food Chemistry, 2011, 129, 565-569.	8.2	45
152	Simultaneous fluorometric determination of the DNAs of Salmonella enterica, Listeria monocytogenes and Vibrio parahemolyticus by using an ultrathin metal-organic framework (type) Tj ETQq0 0 C) rgB 3. ¢Over	lock510 Tf 50
153	Evaluation of trans-resveratrol level in grape wine using laser-induced porous graphene-based electrochemical sensor. Science of the Total Environment, 2020, 714, 136687.	8.0	45
154	Recent Advances in Plant Nanoscience. Advanced Science, 2022, 9, e2103414.	11.2	45
155	Prediction of Enological Parameters and Discrimination of Rice Wine Age Using Least-Squares Support Vector Machines and Near Infrared Spectroscopy. Journal of Agricultural and Food Chemistry, 2008, 56, 307-313.	5.2	44
156	A Wireless Design of Low-Cost Irrigation System Using ZigBee Technology. , 2009, , .		44
157	Recent Advances in Applications of Carbon Nanotubes for Desalination: A Review. Nanomaterials, 2020, 10, 1203.	4.1	44
158	Quality Determination of Chinese Rice Wine Based on Fourier Transform near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2006, 14, 37-44.	1.5	43
159	An unmodified gold nanorods-based DNA colorimetric biosensor with enzyme-free hybridization chain reaction amplification. Sensors and Actuators B: Chemical, 2018, 273, 642-648.	7.8	43
160	Ultrathin transition-metal dichalcogenide nanosheet-based colorimetric sensor for sensitive and label-free detection of DNA. Sensors and Actuators B: Chemical, 2019, 290, 565-572.	7.8	43
161	Sustainable Natural Bioâ€Origin Materials for Future Flexible Devices. Advanced Science, 2022, 9, e2200560.	11.2	43
162	Sensitive Determination of (â^)-Epigallocatechin Gallate in Tea Infusion Using a Novel Ionic Liquid Carbon Paste Electrode, Journal of Agricultural and Food Chemistry, 2012, 60, 6333-6340.	5.2	42

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163	Nondestructive measurement of pear texture by acoustic vibration method. Postharvest Biology and Technology, 2014, 96, 99-105.	6.0	42
164	Two-dimensional MXene nanosheets (types Ti3C2Tx and Ti2CTx) as new ion-to-electron transducers in solid-contact calcium ion-selective electrodes. Mikrochimica Acta, 2019, 186, 750.	5.0	42
165	Structure, synthesis, and sensing applications of single-walled carbon nanohorns. Biosensors and Bioelectronics, 2020, 167, 112495.	10.1	42
166	Comparison of monomeric and polymeric horseradish peroxidase as labels in competitive ELISA for small molecule detection. Mikrochimica Acta, 2013, 180, 711-717.	5.0	41
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168	Shape-dependent significant physical mutilation and antibacterial mechanisms of gold nanoparticles against foodborne bacterial pathogens (Escherichia coli, Pseudomonas aeruginosa and) Tj ETQq0 0 0 rgBT /Overl 110338.	ock 10 Tf 7.3	50 ₄ 142 Td (S
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