

Yibin Ying

List of Publications by Year in descending order

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Version: 2024-02-01

401
papers

20,223
citations

7096

78
h-index

17592

121
g-index

403
all docs

403
docs citations

403
times ranked

20778
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of imaging methods based on terahertz time-domain spectroscopy. <i>Applied Spectroscopy Reviews</i> , 2022, 57, 249-264.	6.7	51
2	Plant-protein-enabled biodegradable triboelectric nanogenerator for sustainable agriculture. <i>Fundamental Research</i> , 2022, 2, 974-984.	3.3	19
3	Omnidirectional wind energy harvester for self-powered agro-environmental information sensing. <i>Nano Energy</i> , 2022, 91, 106686.	16.0	33
4	An interpretable deep learning approach for calibration transfer among multiple near-infrared instruments. <i>Computers and Electronics in Agriculture</i> , 2022, 192, 106584.	7.7	17
5	Rapid Analysis of Fruit Acids by Laser-Engraved Free-Standing Terahertz Metamaterials. <i>Food Analytical Methods</i> , 2022, 15, 961-969.	2.6	1
6	Recent Advances in Plant Nanoscience. <i>Advanced Science</i> , 2022, 9, e2103414.	11.2	45
7	Stimulation of ambient energy generated electric field on crop plant growth. <i>Nature Food</i> , 2022, 3, 133-142.	14.0	70
8	Anion-Selective Layered Double Hydroxide Composites-Based Osmotic Energy Conversion for Real-Time Nutrient Solution Detection. <i>Advanced Science</i> , 2022, 9, e2103696.	11.2	12
9	Detection of early stage bruise in apples using optical property mapping. <i>Computers and Electronics in Agriculture</i> , 2022, 194, 106725.	7.7	15
10	Large-Scale Rice Mapping Using Multi-Task Spatiotemporal Deep Learning and Sentinel-1 SAR Time Series. <i>Remote Sensing</i> , 2022, 14, 699.	4.0	17
11	Cross-Wavelength Hierarchical Metamaterials Enabled for Trans-Scale Molecules Detection Simultaneously. <i>Advanced Science</i> , 2022, , 2105447.	11.2	5
12	Sustainable Natural Bio-Origin Materials for Future Flexible Devices. <i>Advanced Science</i> , 2022, 9, e2200560.	11.2	43
13	Pesticide detection with covalent-organic-framework nanofilms at terahertz band. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114274.	10.1	13
14	A deep learning approach to improving spectral analysis of fruit quality under interseason variation. <i>Food Control</i> , 2022, 140, 109108.	5.5	10
15	An integrated and robust plant pulse monitoring system based on biomimetic wearable sensor. <i>Npj Flexible Electronics</i> , 2022, 6, .	10.7	25
16	Room-temperature high-precision printing of flexible wireless electronics based on MXene inks. <i>Nature Communications</i> , 2022, 13, .	12.8	86
17	Non-destructive detection of foreign contaminants in toast bread with near infrared spectroscopy and computer vision techniques. <i>Journal of Food Measurement and Characterization</i> , 2021, 15, 189-198.	3.2	11
18	Wearable plasmonic-metasurface sensor for noninvasive and universal molecular fingerprint detection on biointerfaces. <i>Science Advances</i> , 2021, 7, .	10.3	157

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19	Fluorinated Grapheneâ€Enabled Durable Triboelectric Coating for Water Energy Harvesting. Small, 2021, 17, e2007805.	10.0	27
20	Recent Progress in 2Dâ€Nanomaterialâ€Based Triboelectric Nanogenerators. Advanced Functional Materials, 2021, 31, 2009994.	14.9	60
21	Soft and Stretchable Optical Waveguide: Light Delivery and Manipulation at Complex Biointerfaces Creating Unique Windows for On-Body Sensing. ACS Sensors, 2021, 6, 1446-1460.	7.8	22
22	Cohabiting Plantâ€Wearable Sensor In Situ Monitors Water Transport in Plant. Advanced Science, 2021, 8, 2003642.	11.2	49
23	Breathable Nanogenerators for an On-Plant Self-Powered Sustainable Agriculture System. ACS Nano, 2021, 15, 5307-5315.	14.6	99
24	Double cropping and cropland expansion boost grain production in Brazil. Nature Food, 2021, 2, 264-273.	14.0	28
25	Adsorptive and responsive hybrid sponge of melamine foam and metal organic frameworks for rapid collection/removal and detection of mycotoxins. Chemical Engineering Journal, 2021, 410, 128268.	12.7	40
26	Spatial-Frequency Domain Imaging: An Emerging Depth-Varying and Wide-Field Technique for Optical Property Measurement of Biological Tissues. Photonics, 2021, 8, 162.	2.0	10
27	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
28	A stretchable and conductive fiber for multifunctional sensing and energy harvesting. Nano Energy, 2021, 84, 105954.	16.0	67
29	Highly Efficient Raindrop Energy-Based Triboelectric Nanogenerator for Self-Powered Intelligent Greenhouse. ACS Nano, 2021, 15, 12314-12323.	14.6	106
30	Wireless Technologies for Energy Harvesting and Transmission for Ambient Self-Powered Systems. ACS Nano, 2021, 15, 9328-9354.	14.6	53
31	Nanoconfinement Effect for Signal Amplification in Electrochemical Analysis and Sensing. Small, 2021, 17, e2101665.	10.0	25
32	Label-free terahertz microfluidic biosensor for sensitive DNA detection using graphene-metasurface hybrid structures. Biosensors and Bioelectronics, 2021, 188, 113336.	10.1	101
33	An artificial neural network model for accurate and efficient optical property mapping from spatial-frequency domain images. Computers and Electronics in Agriculture, 2021, 188, 106340.	7.7	28
34	Growthâ€Controllable Triboelectric Nanogenerator Based on Surfaceâ€Attached Metalâ€Organic Framework Layer on Living Leaf. Small, 2021, 17, e2103430.	10.0	21
35	Recent advances in sensing applications of metal nanoparticle/metalâ€organic framework composites. TrAC - Trends in Analytical Chemistry, 2021, 143, 116395.	11.4	50
36	Nanomaterial-based biosensors for agro-product safety. TrAC - Trends in Analytical Chemistry, 2021, 143, 116369.	11.4	19

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37	Towards interpreting multi-temporal deep learning models in crop mapping. Remote Sensing of Environment, 2021, 264, 112599.	11.0	82
38	Structural design of metal-organic frameworks with tunable colorimetric responses for visual sensing applications. Coordination Chemistry Reviews, 2021, 446, 214102.	18.8	67
39	Metamaterial-free 2D Materials Enabled Terahertz Flexible Sensors for Molecular Detection and Recognition. , 2021, , .		0
40	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. Advanced Materials, 2021, 33, e2104195.	21.0	30
41	Flexible complementary circuits operating at sub-0.5 V via hybrid organic-inorganic electrolyte-gated transistors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	34
42	A flexible and fully integrated wearable pressure sensing chip system for multi-scenario applications. Journal of Materials Chemistry A, 2021, 9, 26875-26884.	10.3	12
43	Self-reduction bimetallic nanoparticles on ultrathin MXene nanosheets as functional platform for pesticide sensing. Journal of Hazardous Materials, 2020, 384, 121358.	12.4	160
44	Spontaneous growth and regulation of noble metal nanoparticles on flexible biomimetic MXene paper for bioelectronics. Biosensors and Bioelectronics, 2020, 148, 111799.	10.1	95
45	Spatial-frequency domain imaging coupled with frequency optimization for estimating optical properties of two-layered food and agricultural products. Journal of Food Engineering, 2020, 277, 109909.	5.2	23
46	DeepCropNet: a deep spatial-temporal learning framework for county-level corn yield estimation. Environmental Research Letters, 2020, 15, 034016.	5.2	35
47	Cooperation Mode of Outer Surface and Inner Space of Nanochannel: Separation-Detection System Based on Integrated Nanochannel Electrode for Rapid and Facile Detection of <i>Salmonella</i> . Analytical Chemistry, 2020, 92, 1818-1825.	6.5	24
48	Shape-dependent significant physical mutilation and antibacterial mechanisms of gold nanoparticles against foodborne bacterial pathogens (<i>Escherichia coli</i> , <i>Pseudomonas aeruginosa</i> and <i>Typhimurium</i>). Food Bioscience, 2020, 35, 100938.	7.3	41
49	One-pot facile integration of functional materials in bionanocomposite by mimicking blood coagulation for electrochemical biosensing. Chemical Engineering Journal, 2020, 385, 123462.	12.7	3
50	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
51	Laser-induced noble metal nanoparticle-graphene composites enabled flexible biosensor for pathogen detection. Biosensors and Bioelectronics, 2020, 150, 111896.	10.1	99
52	Biotriboelectric Nanogenerators: Materials, Structures, and Applications. Advanced Energy Materials, 2020, 10, 2002001.	19.5	54
53	Smart plant-wearable biosensor for in-situ pesticide analysis. Biosensors and Bioelectronics, 2020, 170, 112636.	10.1	111
54	Attenuated Total Reflection for Terahertz Modulation, Sensing, Spectroscopy and Imaging Applications: A Review. Applied Sciences (Switzerland), 2020, 10, 4688.	2.5	10

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55	Noble metal alloy nanoparticles coated flexible MoS ₂ paper for the determination of reactive oxygen species. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112463.	10.1	21
56	Structure, synthesis, and sensing applications of single-walled carbon nanohorns. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112495.	10.1	42
57	Ultrahigh-Sensitivity Molecular Sensing with Carbon Nanotube Terahertz Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40629-40634.	8.0	55
58	Large scale assembly of nanomaterials: mechanisms and applications. <i>Nanoscale</i> , 2020, 12, 17571-17589.	5.6	21
59	Recent Advances in Nanomaterial-Enabled Wearable Sensors: Material Synthesis, Sensor Design, and Personal Health Monitoring. <i>Small</i> , 2020, 16, e2002681.	10.0	133
60	Metamaterial-Free Flexible Graphene-Enabled Terahertz Sensors for Pesticide Detection at Bio-Interface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44281-44287.	8.0	59
61	Phase-dependent ion-to-electron transducing efficiency of WS ₂ nanosheets for an All-solid-state potentiometric calcium sensor. <i>Mikrochimica Acta</i> , 2020, 187, 525.	5.0	5
62	Noble Metal Regeneration: Alchemy-Inspired Green Paper for Spontaneous Recovery of Noble Metals (Small 33/2020). <i>Small</i> , 2020, 16, 2070184.	10.0	2
63	Magnetically separable and recyclable bamboo-like carbon nanotube-based FRET assay for sensitive and selective detection of Hg ²⁺ . <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3779-3786.	3.7	10
64	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.	8.0	68
65	Optically enhanced terahertz modulation and sensing in aqueous environment with gold nanorods. <i>Optics and Lasers in Engineering</i> , 2020, 133, 106147.	3.8	8
66	Monte Carlo: A flexible and accurate technique for modeling light transport in food and agricultural products. <i>Trends in Food Science and Technology</i> , 2020, 102, 280-290.	15.1	21
67	Recent advances in solid-contact ion-selective electrodes: functional materials, transduction mechanisms, and development trends. <i>Chemical Society Reviews</i> , 2020, 49, 4405-4465.	38.1	257
68	Effects of optical variables in a single integrating sphere system on estimation of scattering properties of turbid media. <i>Biosystems Engineering</i> , 2020, 194, 82-98.	4.3	17
69	Non-destructive quality control detection of endogenous contaminations in walnuts using terahertz spectroscopic imaging. <i>Journal of Food Measurement and Characterization</i> , 2020, 14, 2453-2460.	3.2	18
70	Peach variety detection using VIS-NIR spectroscopy and deep learning. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105553.	7.7	56
71	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.	10.1	186
72	Alchemy-Inspired Green Paper for Spontaneous Recovery of Noble Metals. <i>Small</i> , 2020, 16, e1907282.	10.0	25

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73	Recent Advances in Applications of Carbon Nanotubes for Desalination: A Review. <i>Nanomaterials</i> , 2020, 10, 1203.	4.1	44
74	Two-dimensional nanocomposite-based electrochemical sensor for rapid determination of trans-resveratrol. <i>Science of the Total Environment</i> , 2020, 742, 140351.	8.0	12
75	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.	8.0	60
76	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.	8.0	49
77	Evaluation of trans-resveratrol level in grape wine using laser-induced porous graphene-based electrochemical sensor. <i>Science of the Total Environment</i> , 2020, 714, 136687.	8.0	45
78	Integration and synergy in protein-nanomaterial hybrids for biosensing: Strategies and in-field detection applications. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112036.	10.1	18
79	Agricultural robotics research applicable to poultry production: A review. <i>Computers and Electronics in Agriculture</i> , 2020, 169, 105216.	7.7	87
80	A multifunctional TENG yarn integrated into agrotextile for building intelligent agriculture. <i>Nano Energy</i> , 2020, 74, 104863.	16.0	85
81	Understanding the learning mechanism of convolutional neural networks in spectral analysis. <i>Analytica Chimica Acta</i> , 2020, 1119, 41-51.	5.4	74
82	A self-charging device with bionic self-cleaning interface for energy harvesting. <i>Nano Energy</i> , 2020, 73, 104738.	16.0	65
83	Understanding the impact of sub-seasonal meteorological variability on corn yield in the U.S. Corn Belt. <i>Science of the Total Environment</i> , 2020, 724, 138235.	8.0	5
84	Recent advances in food-derived nanomaterials applied to biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 127, 115884.	11.4	20
85	Rapid analysis of a doxycycline hydrochloride solution by metallic mesh device-based reflection terahertz spectroscopy. <i>Optics Express</i> , 2020, 28, 12001.	3.4	6
86	Influences of Detection Position and Double Detection Regions on Determining Soluble Solids Content (SSC) for Apples Using On-line Visible/Near-Infrared (Vis/NIR) Spectroscopy. <i>Food Analytical Methods</i> , 2019, 12, 2078-2085.	2.6	15
87	Bio-inspired assembly of reduced graphene oxide by fibrin fiber to prepare multi-functional conductive bio-nanocomposites as versatile electrochemical platforms. <i>Carbon</i> , 2019, 153, 504-512.	10.3	16
88	A disposable electrochemical sensor based on electrospinning of molecularly imprinted nanohybrid films for highly sensitive determination of the organotin acaricide cyhexatin. <i>Mikrochimica Acta</i> , 2019, 186, 504.	5.0	5
89	A novel impedimetric sensor for detecting LAMP amplicons of pathogenic DNA based on magnetic separation. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127051.	7.8	21
90	Multi-objective optimization for sustainable renewable jet fuel production: A case study of corn stover based supply chain system in Midwestern U.S.. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109403.	16.4	41

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91	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.	16.0	155
92	Two-dimensional MXene nanosheets (types Ti ₃ C ₂ T _x and Ti ₂ CT _x) as new ion-to-electron transducers in solid-contact calcium ion-selective electrodes. <i>Mikrochimica Acta</i> , 2019, 186, 750.	5.0	42
93	Recent developments in carbon nanomaterial-enabled electrochemical sensors for nitrite detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 113, 1-12.	11.4	158
94	Development of a Graphene Paper-Based Flexible Solid-Contact Lead Ion-Selective Electrode and its Application in Water. <i>Transactions of the ASABE</i> , 2019, 62, 245-252.	1.1	11
95	Temperature-dependent terahertz vibrational spectra of tetracycline and its degradation products. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 222, 117179.	3.9	17
96	Deep learning for vibrational spectral analysis: Recent progress and a practical guide. <i>Analytica Chimica Acta</i> , 2019, 1081, 6-17.	5.4	165
97	Recent advances in fabrication strategies and protein preservation application of protein-nanomaterial hybrids: Integration and synergy. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 434-443.	11.4	12
98	Computer vision detection of foreign objects in walnuts using deep learning. <i>Computers and Electronics in Agriculture</i> , 2019, 162, 1001-1010.	7.7	77
99	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.	5.0	59
100	Highly conductive 1D-2D composite film for skin-mountable strain sensor and stretchable triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 62, 319-328.	16.0	93
101	Ultrathin noble metal nanoplates decorated metal-organic framework nanosheets as 2D/2D heterojunction nanobionic catalysts for explosive residues monitoring. <i>2D Materials</i> , 2019, 6, 035008.	4.4	16
102	Fully stretchable triboelectric nanogenerator for energy harvesting and self-powered sensing. <i>Nano Energy</i> , 2019, 61, 78-85.	16.0	75
103	Recent advances in nanomaterial-enabled screen-printed electrochemical sensors for heavy metal detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 115, 187-202.	11.4	189
104	Ultrathin transition-metal dichalcogenide nanosheet-based colorimetric sensor for sensitive and label-free detection of DNA. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 565-572.	7.8	43
105	All-electrospun flexible triboelectric nanogenerator based on metallic MXene nanosheets. <i>Nano Energy</i> , 2019, 59, 268-276.	16.0	314
106	Feasibility Study on Rapid Analysis of Doxycycline Hydrochloride Aqueous Solution by Terahertz Time-Domain Spectroscopy. <i>Transactions of the ASABE</i> , 2019, 62, 205-212.	1.1	1
107	Recent advances in the rational synthesis and sensing applications of metal-organic framework biocomposites. <i>Coordination Chemistry Reviews</i> , 2019, 387, 60-78.	18.8	172
108	An on-site fully integrated suitcase for <i>Candidatus Liberibacter asiaticus</i> detection based on loop-mediated isothermal amplification. , 2019, , .		0

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109	An RFID-Based Automated Individual Perching Monitoring System for Group-Housed Poultry. Transactions of the ASABE, 2019, 62, 695-704.	1.1	11
110	Bio-/Nanoimmobilization Platform Based on Bioinspired Fibrin-Bone@Polydopamine-Shell Adhesive Composites for Biosensing. ACS Applied Materials & Interfaces, 2019, 11, 47311-47319.	8.0	7
111	Terahertz biosensing with a graphene-metamaterial heterostructure platform. Carbon, 2019, 141, 247-252.	10.3	156
112	Effect of measurement position on prediction of apple soluble solids content (SSC) by an on-line near-infrared (NIR) system. Journal of Food Measurement and Characterization, 2019, 13, 506-512.	3.2	19
113	DeepSpectra: An end-to-end deep learning approach for quantitative spectral analysis. Analytica Chimica Acta, 2019, 1058, 48-57.	5.4	201
114	Simultaneous fluorometric determination of the DNAs of Salmonella enterica, Listeria monocytogenes and Vibrio parahaemolyticus by using an ultrathin metal-organic framework (type) Tj ETQq0 0 0 rgBt. (Overlooked) 10 Tf 50	1.0	45
115	Terahertz spectroscopic imaging with discriminant analysis for detecting foreign materials among sausages. Food Control, 2019, 97, 100-104.	5.5	49
116	Designed inorganic nanomaterials for intrinsic peroxidase mimics: A review. Sensors and Actuators B: Chemical, 2019, 283, 18-34.	7.8	74
117	A stepwise method for estimating optical properties of two-layer turbid media from spatial-frequency domain reflectance. Optics Express, 2019, 27, 1124.	3.4	10
118	Factors influencing near infrared spectroscopy analysis of agro-products: a review. Frontiers of Agricultural Science and Engineering, 2019, 6, 105.	1.4	18
119	Terahertz sensing of methyl chlorpyrifos using carbon nanotube metamaterials. , 2019, , .		0
120	Robustness improvement of NIR-based determination of soluble solids in apple fruit by local calibration. Postharvest Biology and Technology, 2018, 139, 82-90.	6.0	36
121	Mechanisms and applications of carbon nanotubes in terahertz devices: A review. Carbon, 2018, 132, 42-58.	10.3	88
122	A two-step parameter optimization algorithm for improving estimation of optical properties using spatial frequency domain imaging. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 207, 32-40.	2.3	19
123	Counting DNA molecules with visual segment-based readouts in minutes. Chemical Communications, 2018, 54, 1105-1108.	4.1	12
124	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
125	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.	10.3	120
126	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

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127	Survey of Octylphenol, Nonylphenol, and Bisphenol A in Infant Milk Powders by Solid-Phase Extraction Combined GC/MS Method. <i>Journal of Food Quality</i> , 2018, 2018, 1-8.	2.6	2
128	Fully Written Flexible Potentiometric Sensor Using Two-Dimensional Nanomaterial-Based Conductive Ink. <i>Analytical Chemistry</i> , 2018, 90, 13088-13095.	6.5	31
129	An Image-Assisted Rod-Platform Weighing System for Weight Information Sampling of Broilers. <i>Transactions of the ASABE</i> , 2018, 61, 631-640.	1.1	5
130	Solution-Phase Synthesis of Platinum Nanoparticle-Decorated Metal-Organic Framework Hybrid Nanomaterials as Biomimetic Nanoenzymes for Biosensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24108-24115.	8.0	117
131	An unmodified gold nanorods-based DNA colorimetric biosensor with enzyme-free hybridization chain reaction amplification. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 642-648.	7.8	43
132	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.	15.1	205
133	Carbon nanomaterial-enabled pesticide biosensors: Design strategy, biosensing mechanism, and practical application. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 106, 62-83.	11.4	131
134	Terahertz Imaging Applications in Agriculture and Food Engineering: A Review. <i>Transactions of the ASABE</i> , 2018, 61, 411-424.	1.1	25
135	<i>Monitoring high-absorption aqueous solution with multiple attenuated total reflection terahertz time-domain spectroscopy</i>, 2018, .		1
136	Image processing-aided FEA for monitoring dynamic response of potato tubers to impact loading. <i>Computers and Electronics in Agriculture</i> , 2018, 151, 21-30.	7.7	24
137	Metallic mesh devices-based terahertz parallel-plate resonators: characteristics and applications. <i>Optics Express</i> , 2018, 26, 24992.	3.4	9
138	Precautionary analysis of sprouting potato eyes using hyperspectral imaging technology. <i>International Journal of Agricultural and Biological Engineering</i> , 2018, 11, 153-157.	0.6	7
139	Characterizing pear tissue with optical absorption and scattering properties using spatially-resolved diffuse reflectance. <i>Journal of Food Measurement and Characterization</i> , 2017, 11, 930-936.	3.2	9
140	Recent advances in nanomaterial-based biosensors for antibiotics detection. <i>Biosensors and Bioelectronics</i> , 2017, 91, 504-514.	10.1	328
141	A Novel Impedimetric Microfluidic Analysis System for Transgenic Protein Cry1Ab Detection. <i>Scientific Reports</i> , 2017, 7, 43175.	3.3	15
142	Similar offspring voting genetic algorithm for spectral variable selection. <i>Journal of Chemometrics</i> , 2017, 31, e2893.	1.3	7
143	Polyâ€cytosine DNA as a Highâ€Affinity Ligand for Inorganic Nanomaterials. <i>Angewandte Chemie</i> , 2017, 129, 6304-6308.	2.0	21
144	Polyâ€cytosine DNA as a Highâ€Affinity Ligand for Inorganic Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6208-6212.	13.8	132

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145	Nanosheet Sensors: Recent Advances in Sensing Applications of Two-Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites (Adv. Funct. Mater. 19/2017). Advanced Functional Materials, 2017, 27, .	14.9	2
146	Finite element simulation of light transfer in turbid media under structured illumination. , 2017, , .		0
147	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
148	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
149	Embedded vision detection of defective orange by fast adaptive lightness correction algorithm. Computers and Electronics in Agriculture, 2017, 138, 48-59.	7.7	18
150	Exploring pralidoxime chloride as a universal electrochemical probe for organophosphorus pesticides detection. Analytica Chimica Acta, 2017, 982, 78-83.	5.4	36
151	Rapid Fabrication of Flexible and Stretchable Strain Sensor by Chitosan-Based Water Ink for Plants Growth Monitoring. Advanced Materials Technologies, 2017, 2, 1700021.	5.8	65
152	A highly specific strategy for in suit detection of DNA with nicking enzyme assisted amplification and lateral flow. Sensors and Actuators B: Chemical, 2017, 253, 258-265.	7.8	16
153	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
154	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
155	Recent Advances in Sensing Applications of Two-Dimensional Transition Metal Dichalcogenide Nanosheets and Their Composites. Advanced Functional Materials, 2017, 27, 1605817.	14.9	206
156	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
157	Rapid analysis of tetracycline hydrochloride solution by attenuated total reflection terahertz time-domain spectroscopy. Food Chemistry, 2017, 224, 262-269.	8.2	34
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