

Yibin Ying

List of Publications by Year in descending order

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Version: 2024-02-01

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	Overview of imaging methods based on terahertz time-domain spectroscopy. <i>Applied Spectroscopy Reviews</i> , 2022, 57, 249-264.	3.4	51
2	Plant-protein-enabled biodegradable triboelectric nanogenerator for sustainable agriculture. <i>Fundamental Research</i> , 2022, 2, 974-984.	1.6	19
3	Omnidirectional wind energy harvester for self-powered agro-environmental information sensing. <i>Nano Energy</i> , 2022, 91, 106686.	8.2	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.	3.7	17
5	Rapid Analysis of Fruit Acids by Laser-Engraved Free-Standing Terahertz Metamaterials. <i>Food Analytical Methods</i> , 2022, 15, 961-969.	1.3	1
6	Recent Advances in Plant Nanoscience. <i>Advanced Science</i> , 2022, 9, e2103414.	5.6	45
7	Stimulation of ambient energy generated electric field on crop plant growth. <i>Nature Food</i> , 2022, 3, 133-142.	6.2	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.	5.6	12
9	Detection of early stage bruise in apples using optical property mapping. <i>Computers and Electronics in Agriculture</i> , 2022, 194, 106725.	3.7	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.	1.8	17
11	Cross-Wavelength Hierarchical Metamaterials Enabled for Trans-Scale Molecules Detection Simultaneously. <i>Advanced Science</i> , 2022, , 2105447.	5.6	5
12	Sustainable Natural Bio-Origin Materials for Future Flexible Devices. <i>Advanced Science</i> , 2022, 9, e2200560.	5.6	43
13	Pesticide detection with covalent-organic-framework nanofilms at terahertz band. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114274.	5.3	13
14	A deep learning approach to improving spectral analysis of fruit quality under interseason variation. <i>Food Control</i> , 2022, 140, 109108.	2.8	10
15	An integrated and robust plant pulse monitoring system based on biomimetic wearable sensor. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	25
16	Room-temperature high-precision printing of flexible wireless electronics based on MXene inks. <i>Nature Communications</i> , 2022, 13, .	5.8	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.	1.6	11
18	Wearable plasmonic-metasurface sensor for noninvasive and universal molecular fingerprint detection on biointerfaces. <i>Science Advances</i> , 2021, 7, .	4.7	157

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19	Fluorinated Graphene-Enabled Durable Triboelectric Coating for Water Energy Harvesting. <i>Small</i> , 2021, 17, e2007805.	5.2	27
20	Recent Progress in 2D-Nanomaterial-Based Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2021, 31, 2009994.	7.8	60
21	Soft and Stretchable Optical Waveguide: Light Delivery and Manipulation at Complex Biointerfaces Creating Unique Windows for On-Body Sensing. <i>ACS Sensors</i> , 2021, 6, 1446-1460.	4.0	22
22	Cohabiting Plant-Wearable Sensor In Situ Monitors Water Transport in Plant. <i>Advanced Science</i> , 2021, 8, 2003642.	5.6	49
23	Breathable Nanogenerators for an On-Plant Self-Powered Sustainable Agriculture System. <i>ACS Nano</i> , 2021, 15, 5307-5315.	7.3	99
24	Double cropping and cropland expansion boost grain production in Brazil. <i>Nature Food</i> , 2021, 2, 264-273.	6.2	28
25	Adsorptive and responsive hybrid sponge of melamine foam and metal organic frameworks for rapid collection/removal and detection of mycotoxins. <i>Chemical Engineering Journal</i> , 2021, 410, 128268.	6.6	40
26	Spatial-Frequency Domain Imaging: An Emerging Depth-Varying and Wide-Field Technique for Optical Property Measurement of Biological Tissues. <i>Photonics</i> , 2021, 8, 162.	0.9	10
27	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
28	A stretchable and conductive fiber for multifunctional sensing and energy harvesting. <i>Nano Energy</i> , 2021, 84, 105954.	8.2	67
29	Highly Efficient Raindrop Energy-Based Triboelectric Nanogenerator for Self-Powered Intelligent Greenhouse. <i>ACS Nano</i> , 2021, 15, 12314-12323.	7.3	106
30	Wireless Technologies for Energy Harvesting and Transmission for Ambient Self-Powered Systems. <i>ACS Nano</i> , 2021, 15, 9328-9354.	7.3	53
31	Nanoconfinement Effect for Signal Amplification in Electrochemical Analysis and Sensing. <i>Small</i> , 2021, 17, e2101665.	5.2	25
32	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
33	An artificial neural network model for accurate and efficient optical property mapping from spatial-frequency domain images. <i>Computers and Electronics in Agriculture</i> , 2021, 188, 106340.	3.7	28
34	Growth-Controllable Triboelectric Nanogenerator Based on Surface-Attached Metal-Organic Framework Layer on Living Leaf. <i>Small</i> , 2021, 17, e2103430.	5.2	21
35	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
36	Nanomaterial-based biosensors for agro-product safety. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 143, 116369.	5.8	19

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37	Towards interpreting multi-temporal deep learning models in crop mapping. <i>Remote Sensing of Environment</i> , 2021, 264, 112599.	4.6	82
38	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
39	Metamaterial-free 2D Materials Enabled Terahertz Flexible Sensors for Molecular Detection and Recognition. , 2021, , .		0
40	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. <i>Advanced Materials</i> , 2021, 33, e2104195.	11.1	30
41	Flexible complementary circuits operating at sub-0.5 V via hybrid organic-inorganic electrolyte-gated transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	34
42	A flexible and fully integrated wearable pressure sensing chip system for multi-scenario applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26875-26884.	5.2	12
43	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
44	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
45	Spatial-frequency domain imaging coupled with frequency optimization for estimating optical properties of two-layered food and agricultural products. <i>Journal of Food Engineering</i> , 2020, 277, 109909.	2.7	23
46	DeepCropNet: a deep spatial-temporal learning framework for county-level corn yield estimation. <i>Environmental Research Letters</i> , 2020, 15, 034016.	2.2	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> . <i>Analytical Chemistry</i> , 2020, 92, 1818-1825.	3.2	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>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,302 Td (St</i> 110338.	3.8	41
49	One-pot facile integration of functional materials in bionanocomposite by mimicking blood coagulation for electrochemical biosensing. <i>Chemical Engineering Journal</i> , 2020, 385, 123462.	6.6	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. <i>Global Change Biology</i> , 2020, 26, 1754-1766.	4.2	103
51	Laser-induced noble metal nanoparticle-graphene composites enabled flexible biosensor for pathogen detection. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111896.	5.3	99
52	Biotriboelectric Nanogenerators: Materials, Structures, and Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2002001.	10.2	54
53	Smart plant-wearable biosensor for in-situ pesticide analysis. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112636.	5.3	111
54	Attenuated Total Reflection for Terahertz Modulation, Sensing, Spectroscopy and Imaging Applications: A Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4688.	1.3	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.	5.3	21
56	Structure, synthesis, and sensing applications of single-walled carbon nanohorns. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112495.	5.3	42
57	Ultrahigh-Sensitivity Molecular Sensing with Carbon Nanotube Terahertz Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40629-40634.	4.0	55
58	Large scale assembly of nanomaterials: mechanisms and applications. <i>Nanoscale</i> , 2020, 12, 17571-17589.	2.8	21
59	Recent Advances in Nanomaterial-Enabled Wearable Sensors: Material Synthesis, Sensor Design, and Personal Health Monitoring. <i>Small</i> , 2020, 16, e2002681.	5.2	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.	4.0	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.	2.5	5
62	Noble Metal Regeneration: Alchemy-Inspired Green Paper for Spontaneous Recovery of Noble Metals (Small 33/2020). <i>Small</i> , 2020, 16, 2070184.	5.2	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.	1.9	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.	4.0	68
65	Optically enhanced terahertz modulation and sensing in aqueous environment with gold nanorods. <i>Optics and Lasers in Engineering</i> , 2020, 133, 106147.	2.0	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.	7.8	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.	18.7	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.	1.9	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.	1.6	18
70	Peach variety detection using VIS-NIR spectroscopy and deep learning. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105553.	3.7	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.	5.3	186
72	Alchemy-Inspired Green Paper for Spontaneous Recovery of Noble Metals. <i>Small</i> , 2020, 16, e1907282.	5.2	25

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73	Recent Advances in Applications of Carbon Nanotubes for Desalination: A Review. <i>Nanomaterials</i> , 2020, 10, 1203.	1.9	44
74	Two-dimensional nanocomposite-based electrochemical sensor for rapid determination of trans-resveratrol. <i>Science of the Total Environment</i> , 2020, 742, 140351.	3.9	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.	4.0	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.	4.0	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.	3.9	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.	5.3	18
79	Agricultural robotics research applicable to poultry production: A review. <i>Computers and Electronics in Agriculture</i> , 2020, 169, 105216.	3.7	87
80	A multifunctional TENG yarn integrated into agrotextile for building intelligent agriculture. <i>Nano Energy</i> , 2020, 74, 104863.	8.2	85
81	Understanding the learning mechanism of convolutional neural networks in spectral analysis. <i>Analytica Chimica Acta</i> , 2020, 1119, 41-51.	2.6	74
82	A self-charging device with bionic self-cleaning interface for energy harvesting. <i>Nano Energy</i> , 2020, 73, 104738.	8.2	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.	3.9	5
84	Recent advances in food-derived nanomaterials applied to biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 127, 115884.	5.8	20
85	Rapid analysis of a doxycycline hydrochloride solution by metallic mesh device-based reflection terahertz spectroscopy. <i>Optics Express</i> , 2020, 28, 12001.	1.7	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.	1.3	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.	5.4	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.	2.5	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.	4.0	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.	8.2	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.	8.2	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.	2.5	42
93	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
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.	2.0	17
96	Deep learning for vibrational spectral analysis: Recent progress and a practical guide. <i>Analytica Chimica Acta</i> , 2019, 1081, 6-17.	2.6	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.	5.8	12
98	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
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.	2.5	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.	8.2	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.	2.0	16
102	Fully stretchable triboelectric nanogenerator for energy harvesting and self-powered sensing. <i>Nano Energy</i> , 2019, 61, 78-85.	8.2	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.	5.8	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.	4.0	43
105	All-electrospun flexible triboelectric nanogenerator based on metallic MXene nanosheets. <i>Nano Energy</i> , 2019, 59, 268-276.	8.2	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.	9.5	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. <i>Transactions of the ASABE</i> , 2019, 62, 695-704.	1.1	11
110	Bio-/Nanoimmobilization Platform Based on Bioinspired Fibrin-Bone@Polydopamine-Shell Adhesive Composites for Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47311-47319.	4.0	7
111	Terahertz biosensing with a graphene-metamaterial heterostructure platform. <i>Carbon</i> , 2019, 141, 247-252.	5.4	156
112	Effect of measurement position on prediction of apple soluble solids content (SSC) by an on-line near-infrared (NIR) system. <i>Journal of Food Measurement and Characterization</i> , 2019, 13, 506-512.	1.6	19
113	DeepSpectra: An end-to-end deep learning approach for quantitative spectral analysis. <i>Analytica Chimica Acta</i> , 2019, 1058, 48-57.	2.6	201
114	Simultaneous fluorometric determination of the DNAs of <i>Salmonella enterica</i> , <i>Listeria monocytogenes</i> and <i>Vibrio parahaemolyticus</i> by using an ultrathin metal-organic framework (type Tj ETQq0 0 0 rg BT.# Overlock 10 Tf 50		
115	Terahertz spectroscopic imaging with discriminant analysis for detecting foreign materials among sausages. <i>Food Control</i> , 2019, 97, 100-104.	2.8	49
116	Designed inorganic nanomaterials for intrinsic peroxidase mimics: A review. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 18-34.	4.0	74
117	A stepwise method for estimating optical properties of two-layer turbid media from spatial-frequency domain reflectance. <i>Optics Express</i> , 2019, 27, 1124.	1.7	10
118	Factors influencing near infrared spectroscopy analysis of agro-products: a review. <i>Frontiers of Agricultural Science and Engineering</i> , 2019, 6, 105.	0.9	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. <i>Postharvest Biology and Technology</i> , 2018, 139, 82-90.	2.9	36
121	Mechanisms and applications of carbon nanotubes in terahertz devices: A review. <i>Carbon</i> , 2018, 132, 42-58.	5.4	88
122	A two-step parameter optimization algorithm for improving estimation of optical properties using spatial frequency domain imaging. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 207, 32-40.	1.1	19
123	Counting DNA molecules with visual segment-based readouts in minutes. <i>Chemical Communications</i> , 2018, 54, 1105-1108.	2.2	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. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 6525-6543.	2.4	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. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3402-3413.	5.2	120
126	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

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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.	1.4	2
128	Fully Written Flexible Potentiometric Sensor Using Two-Dimensional Nanomaterial-Based Conductive Ink. <i>Analytical Chemistry</i> , 2018, 90, 13088-13095.	3.2	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.	4.0	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.	4.0	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.	7.8	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.	5.8	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.	3.7	24
137	Metallic mesh devices-based terahertz parallel-plate resonators: characteristics and applications. <i>Optics Express</i> , 2018, 26, 24992.	1.7	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.	0.3	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.	1.6	9
140	Recent advances in nanomaterial-based biosensors for antibiotics detection. <i>Biosensors and Bioelectronics</i> , 2017, 91, 504-514.	5.3	328
141	A Novel Impedimetric Microfluidic Analysis System for Transgenic Protein Cry1Ab Detection. <i>Scientific Reports</i> , 2017, 7, 43175.	1.6	15
142	Similar offspring voting genetic algorithm for spectral variable selection. <i>Journal of Chemometrics</i> , 2017, 31, e2893.	0.7	7
143	Polyčcytosine DNA as a HighčAffinity Ligand for Inorganic Nanomaterials. <i>Angewandte Chemie</i> , 2017, 129, 6304-6308.	1.6	21
144	Polyčcytosine DNA as a HighčAffinity Ligand for Inorganic Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6208-6212.	7.2	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, .	7.8	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.	3.7	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.	3.2	55
149	Embedded vision detection of defective orange by fast adaptive lightness correction algorithm. Computers and Electronics in Agriculture, 2017, 138, 48-59.	3.7	18
150	Exploring pralidoxime chloride as a universal electrochemical probe for organophosphorus pesticides detection. Analytica Chimica Acta, 2017, 982, 78-83.	2.6	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.	3.0	65
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