

Lijuan Xie

List of Publications by Year in descending order

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64
papers

3,412
citations

126907

33
h-index

144013

57
g-index

64
all docs

64
docs citations

64
times ranked

3567
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	Rapid Analysis of Fruit Acids by Laser-Engraved Free-Standing Terahertz Metamaterials. <i>Food Analytical Methods</i> , 2022, 15, 961-969.	2.6	1
3	Cross-Wavelength Hierarchical Metamaterials Enabled for Trans-Scale Molecules Detection Simultaneously. <i>Advanced Science</i> , 2022, , 2105447.	11.2	5
4	Pesticide detection with covalent-organic-framework nanofilms at terahertz band. <i>Biosensors and Bioelectronics</i> , 2022, 209, 114274.	10.1	13
5	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
6	Wearable plasmonic-metamaterial sensor for noninvasive and universal molecular fingerprint detection on biointerfaces. <i>Science Advances</i> , 2021, 7, .	10.3	157
7	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.	2.0	10
8	Label-free terahertz microfluidic biosensor for sensitive DNA detection using graphene-metamaterial hybrid structures. <i>Biosensors and Bioelectronics</i> , 2021, 188, 113336.	10.1	101
9	Metamaterial-free 2D Materials Enabled Terahertz Flexible Sensors for Molecular Detection and Recognition. , 2021, , .		0
10	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 50 382 Td (S</i>) 110338.	7.3	41
11	Attenuated Total Reflection for Terahertz Modulation, Sensing, Spectroscopy and Imaging Applications: A Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4688.	2.5	10
12	Ultrahigh-Sensitivity Molecular Sensing with Carbon Nanotube Terahertz Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40629-40634.	8.0	55
13	Large scale assembly of nanomaterials: mechanisms and applications. <i>Nanoscale</i> , 2020, 12, 17571-17589.	5.6	21
14	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
15	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
16	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
17	Recent Advances in Applications of Carbon Nanotubes for Desalination: A Review. <i>Nanomaterials</i> , 2020, 10, 1203.	4.1	44
18	Recent advances in food-derived nanomaterials applied to biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 127, 115884.	11.4	20

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19	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
20	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
21	Biological applications of terahertz technology based on nanomaterials and nanostructures. <i>Nanoscale</i> , 2019, 11, 3445-3457.	5.6	74
22	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
23	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
24	Terahertz biosensing with a graphene-metamaterial heterostructure platform. <i>Carbon</i> , 2019, 141, 247-252.	10.3	156
25	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.	3.2	19
26	Terahertz spectroscopic imaging with discriminant analysis for detecting foreign materials among sausages. <i>Food Control</i> , 2019, 97, 100-104.	5.5	49
27	Terahertz sensing of methyl chlorpyrifos using carbon nanotube metamaterials. , 2019, , .		0
28	Mechanisms and applications of carbon nanotubes in terahertz devices: A review. <i>Carbon</i> , 2018, 132, 42-58.	10.3	88
29	Determination of toxigenic fungi and aflatoxins in nuts and dried fruits using imaging and spectroscopic techniques. <i>Food Chemistry</i> , 2018, 252, 228-242.	8.2	65
30	Measuring the optical properties of two-layer agricultural tissue with a sequential method from spatially-resolved diffuse reflectance, Part I: Analysis and simplification. , 2018, , .		0
31	Terahertz Imaging Applications in Agriculture and Food Engineering: A Review. <i>Transactions of the ASABE</i> , 2018, 61, 411-424.	1.1	25
32	<i>Monitoring high-absorption aqueous solution with multiple attenuated total reflection terahertz time-domain spectroscopy</i>. , 2018, , .		1
33	Metallic mesh devices-based terahertz parallel-plate resonators: characteristics and applications. <i>Optics Express</i> , 2018, 26, 24992.	3.4	9
34	Improved algorithm for estimating the optical properties of food products using spatially-resolved diffuse reflectance. <i>Journal of Food Engineering</i> , 2017, 212, 1-11.	5.2	17
35	Rapid analysis of tetracycline hydrochloride solution by attenuated total reflection terahertz time-domain spectroscopy. <i>Food Chemistry</i> , 2017, 224, 262-269.	8.2	34
36	Mechanisms and applications of terahertz metamaterial sensing: a review. <i>Nanoscale</i> , 2017, 9, 13864-13878.	5.6	299

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37	Terahertz sensing of chlorpyrifos-methyl using metamaterials. <i>Food Chemistry</i> , 2017, 218, 330-334.	8.2	51
38	Flexible Plasmonic Metasurfaces with User-Designed Patterns for Molecular Sensing and Cryptography. <i>Advanced Functional Materials</i> , 2016, 26, 5515-5523.	14.9	62
39	Gold Nanoparticle-Based Terahertz Metamaterial Sensors: Mechanisms and Applications. <i>ACS Photonics</i> , 2016, 3, 2308-2314.	6.6	103
40	Wafer-scale monodomain films of spontaneously aligned single-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2016, 11, 633-638.	31.5	292
41	A high-sensitivity terahertz spectroscopy technology for tetracycline hydrochloride detection using metamaterials. <i>Food Chemistry</i> , 2016, 211, 300-305.	8.2	87
42	Rapid Determination of Tetracyclines Hydrochloride Using ATR FT-MIR Spectroscopy. <i>Food Analytical Methods</i> , 2016, 9, 2880-2886.	2.6	9
43	Finite element modeling of light propagation in turbid media under illumination of a continuous-wave beam. <i>Applied Optics</i> , 2016, 55, 95.	2.1	16
44	Development of Methods for Determination of Aflatoxins. <i>Critical Reviews in Food Science and Nutrition</i> , 2016, 56, 2642-2664.	10.3	72
45	Discrimination of Transgenic Rice containing the Cry1Ab Protein using Terahertz Spectroscopy and Chemometrics. <i>Scientific Reports</i> , 2015, 5, 11115.	3.3	35
46	Extraordinary sensitivity enhancement by metasurfaces in terahertz detection of antibiotics. <i>Scientific Reports</i> , 2015, 5, 8671.	3.3	135
47	Application of Visible/Near-Infrared Spectroscopy Combined with Machine Vision Technique to Evaluate the Ripeness of Melons (<i>Cucumis melo</i> L.). <i>Food Analytical Methods</i> , 2015, 8, 1403-1412.	2.6	8
48	Determination of tetracycline hydrochloride by terahertz spectroscopy with PLSR model. <i>Food Chemistry</i> , 2015, 170, 415-422.	8.2	76
49	Feasibility of Terahertz Time-Domain Spectroscopy to Detect Tetracyclines Hydrochloride in Infant Milk Powder. <i>Analytical Chemistry</i> , 2014, 86, 11750-11757.	6.5	57
50	The Application of Terahertz Spectroscopy to Protein Detection: A Review. <i>Applied Spectroscopy Reviews</i> , 2014, 49, 448-461.	6.7	115
51	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.	6.0	74
52	Comparison of detection modes in terms of the necessity of visible region (VIS) and influence of the peel on soluble solids content (SSC) determination of navel orange using VIS-SWNIR spectroscopy. <i>Journal of Food Engineering</i> , 2014, 126, 126-132.	5.2	46
53	The Detection of Agricultural Products and Food Using Terahertz Spectroscopy: A Review. <i>Applied Spectroscopy Reviews</i> , 2013, 48, 439-457.	6.7	119
54	Assessing the temperature influence on the soluble solids content of watermelon juice as measured by visible and near-infrared spectroscopy and chemometrics. <i>Journal of Food Engineering</i> , 2013, 119, 22-27.	5.2	44

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55	Spectral Database Systems: A Review. <i>Applied Spectroscopy Reviews</i> , 2012, 47, 654-670.	6.7	14
56	On-line detection of orange soluble solid content using visible and near infrared transmission measurements. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
57	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.	6.2	69
58	Rapid determination of ethylene content in tomatoes using visible and short-wave near-infrared spectroscopy and wavelength selection. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009, 97, 141-145.	3.5	30
59	Nondestructive determination of soluble solids content and pH in tomato juice using NIR transmittance spectroscopy. <i>Sensing and Instrumentation for Food Quality and Safety</i> , 2008, 2, 111-115.	1.5	16
60	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.	5.2	78
61	Discrimination of transgenic tomatoes based on visible/near-infrared spectra. <i>Analytica Chimica Acta</i> , 2007, 584, 379-384.	5.4	113
62	Discrimination between Chinese rice wines of different geographical origins by NIRS and AAS. <i>European Food Research and Technology</i> , 2007, 225, 313-320.	3.3	59
63	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.	5.2	53
64	High-sensitivity detection of trace imidacloprid and tetracycline hydrochloride by multi-frequency resonance metamaterials. <i>Journal of Food Measurement and Characterization</i> , 0, , 1.	3.2	1