

# 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	Mechanisms and applications of terahertz metamaterial sensing: a review. <i>Nanoscale</i> , 2017, 9, 13864-13878.	5.6	299
2	Wafer-scale monodomain films of spontaneously aligned single-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2016, 11, 633-638.	31.5	292
3	Wearable plasmonic-metasurface sensor for noninvasive and universal molecular fingerprint detection on biointerfaces. <i>Science Advances</i> , 2021, 7, .	10.3	157
4	Terahertz biosensing with a graphene-metamaterial heterostructure platform. <i>Carbon</i> , 2019, 141, 247-252.	10.3	156
5	Extraordinary sensitivity enhancement by metasurfaces in terahertz detection of antibiotics. <i>Scientific Reports</i> , 2015, 5, 8671.	3.3	135
6	The Detection of Agricultural Products and Food Using Terahertz Spectroscopy: A Review. <i>Applied Spectroscopy Reviews</i> , 2013, 48, 439-457.	6.7	119
7	The Application of Terahertz Spectroscopy to Protein Detection: A Review. <i>Applied Spectroscopy Reviews</i> , 2014, 49, 448-461.	6.7	115
8	Discrimination of transgenic tomatoes based on visible/near-infrared spectra. <i>Analytica Chimica Acta</i> , 2007, 584, 379-384.	5.4	113
9	Gold Nanoparticle-Based Terahertz Metamaterial Sensors: Mechanisms and Applications. <i>ACS Photonics</i> , 2016, 3, 2308-2314.	6.6	103
10	Label-free terahertz microfluidic biosensor for sensitive DNA detection using graphene-metasurface hybrid structures. <i>Biosensors and Bioelectronics</i> , 2021, 188, 113336.	10.1	101
11	Mechanisms and applications of carbon nanotubes in terahertz devices: A review. <i>Carbon</i> , 2018, 132, 42-58.	10.3	88
12	A high-sensitivity terahertz spectroscopy technology for tetracycline hydrochloride detection using metamaterials. <i>Food Chemistry</i> , 2016, 211, 300-305.	8.2	87
13	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
14	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
15	Determination of tetracycline hydrochloride by terahertz spectroscopy with PLSR model. <i>Food Chemistry</i> , 2015, 170, 415-422.	8.2	76
16	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
17	Biological applications of terahertz technology based on nanomaterials and nanostructures. <i>Nanoscale</i> , 2019, 11, 3445-3457.	5.6	74
18	Development of Methods for Determination of Aflatoxins. <i>Critical Reviews in Food Science and Nutrition</i> , 2016, 56, 2642-2664.	10.3	72

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19	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
20	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
21	Flexible Plasmonic Metasurfaces with User-Designed Patterns for Molecular Sensing and Cryptography. <i>Advanced Functional Materials</i> , 2016, 26, 5515-5523.	14.9	62
22	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
23	Metamaterial-Free Flexible Graphene-Enabled Terahertz Sensors for Pesticide Detection at Bio-Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 44281-44287.	8.0	59
24	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
25	Ultrahigh-Sensitivity Molecular Sensing with Carbon Nanotube Terahertz Metamaterials. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40629-40634.	8.0	55
26	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
27	Terahertz sensing of chlorpyrifos-methyl using metamaterials. <i>Food Chemistry</i> , 2017, 218, 330-334.	8.2	51
28	Overview of imaging methods based on terahertz time-domain spectroscopy. <i>Applied Spectroscopy Reviews</i> , 2022, 57, 249-264.	6.7	51
29	Terahertz spectroscopic imaging with discriminant analysis for detecting foreign materials among sausages. <i>Food Control</i> , 2019, 97, 100-104.	5.5	49
30	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
31	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
32	Recent Advances in Applications of Carbon Nanotubes for Desalination: A Review. <i>Nanomaterials</i> , 2020, 10, 1203.	4.1	44
33	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 ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 11 110338</i> ).	7.3	41
34	Discrimination of Transgenic Rice containing the Cry1Ab Protein using Terahertz Spectroscopy and Chemometrics. <i>Scientific Reports</i> , 2015, 5, 11115.	3.3	35
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	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

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37	Terahertz Imaging Applications in Agriculture and Food Engineering: A Review. Transactions of the ASABE, 2018, 61, 411-424.	1.1	25
38	Large scale assembly of nanomaterials: mechanisms and applications. Nanoscale, 2020, 12, 17571-17589.	5.6	21
39	Recent advances in food-derived nanomaterials applied to biosensing. TrAC - Trends in Analytical Chemistry, 2020, 127, 115884.	11.4	20
40	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
41	Non-destructive quality control detection of endogenous contaminations in walnuts using terahertz spectroscopic imaging. Journal of Food Measurement and Characterization, 2020, 14, 2453-2460.	3.2	18
42	Improved algorithm for estimating the optical properties of food products using spatially-resolved diffuse reflectance. Journal of Food Engineering, 2017, 212, 1-11.	5.2	17
43	Temperature-dependent terahertz vibrational spectra of tetracycline and its degradation products. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 222, 117179.	3.9	17
44	Nondestructive determination of soluble solids content and pH in tomato juice using NIR transmittance spectroscopy. Sensing and Instrumentation for Food Quality and Safety, 2008, 2, 111-115.	1.5	16
45	Finite element modeling of light propagation in turbid media under illumination of a continuous-wave beam. Applied Optics, 2016, 55, 95.	2.1	16
46	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. Food Analytical Methods, 2019, 12, 2078-2085.	2.6	15
47	Spectral Database Systems: A Review. Applied Spectroscopy Reviews, 2012, 47, 654-670.	6.7	14
48	Pesticide detection with covalent-organic-framework nanofilms at terahertz band. Biosensors and Bioelectronics, 2022, 209, 114274.	10.1	13
49	Non-destructive detection of foreign contaminants in toast bread with near infrared spectroscopy and computer vision techniques. Journal of Food Measurement and Characterization, 2021, 15, 189-198.	3.2	11
50	Attenuated Total Reflection for Terahertz Modulation, Sensing, Spectroscopy and Imaging Applications: A Review. Applied Sciences (Switzerland), 2020, 10, 4688.	2.5	10
51	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
52	Rapid Determination of Tetracyclines Hydrochloride Using ATR FT-MIR Spectroscopy. Food Analytical Methods, 2016, 9, 2880-2886.	2.6	9
53	Metallic mesh devices-based terahertz parallel-plate resonators: characteristics and applications. Optics Express, 2018, 26, 24992.	3.4	9
54	Application of Visible/Near-Infrared Spectroscopy Combined with Machine Vision Technique to Evaluate the Ripeness of Melons (Cucumis melo L.). Food Analytical Methods, 2015, 8, 1403-1412.	2.6	8

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55	Optically enhanced terahertz modulation and sensing in aqueous environment with gold nanorods. Optics and Lasers in Engineering, 2020, 133, 106147.	3.8	8
56	Rapid analysis of a doxycycline hydrochloride solution by metallic mesh device-based reflection terahertz spectroscopy. Optics Express, 2020, 28, 12001.	3.4	6
57	Cross-Wavelength Hierarchical Metamaterials Enabled for Trans-Scale Molecules Detection Simultaneously. Advanced Science, 2022, , 2105447.	11.2	5
58	On-line detection of orange soluble solid content using visible and near infrared transmission measurements. Proceedings of SPIE, 2012, , .	0.8	2
59	&lt;i&gt;Monitoring high-absorption aqueous solution with multiple attenuated total reflection terahertz time-domain spectroscopy&lt;/i&gt;. , 2018, , .		1
60	Rapid Analysis of Fruit Acids by Laser-Engraved Free-Standing Terahertz Metamaterials. Food Analytical Methods, 2022, 15, 961-969.	2.6	1
61	High-sensitivity detection of trace imidacloprid and tetracycline hydrochloride by multi-frequency resonance metamaterials. Journal of Food Measurement and Characterization, 0, , 1.	3.2	1
62	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
63	Metamaterial-free 2D Materials Enabled Terahertz Flexible Sensors for Molecular Detection and Recognition. , 2021, , .		0
64	Terahertz sensing of methyl chlorpyrifos using carbon nanotube metamaterials. , 2019, , .		0