

# Haiyan Fu

## List of Publications by Year in descending order

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103  
papers

1,807  
citations

236925

25  
h-index

361022

35  
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103  
all docs

103  
docs citations

103  
times ranked

1726  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence paper-based sensor for visual detection of carbamate pesticides in food based on CdTe quantum dot and nano ZnTPyP. <i>Food Chemistry</i> , 2020, 327, 127075.	8.2	85
2	A novel thioctic acid-carbon dots fluorescence sensor for the detection of Hg <sup>2+</sup> and thiophanate methyl via S-Hg affinity. <i>Food Chemistry</i> , 2021, 346, 128923.	8.2	79
3	UPLC-Q-TOF/MS-based untargeted metabolomics coupled with chemometrics approach for Tieguanyin tea with seasonal and year variations. <i>Food Chemistry</i> , 2019, 283, 73-82.	8.2	77
4	Nanomaterials as optical sensors for application in rapid detection of food contaminants, quality and authenticity. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129135.	7.8	70
5	Preliminary study on the application of near infrared spectroscopy and pattern recognition methods to classify different types of apple samples. <i>Food Chemistry</i> , 2011, 128, 555-561.	8.2	57
6	Double quantum dots-nanoporphyrin fluorescence-visualized paper-based sensors for detecting organophosphorus pesticides. <i>Talanta</i> , 2019, 199, 46-53.	5.5	54
7	Optimization of reactions between reducing sugars and 1-phenyl-3-methyl-5-pyrazolone (PMP) by response surface methodology. <i>Food Chemistry</i> , 2018, 254, 158-164.	8.2	48
8	AntDAS: Automatic Data Analysis Strategy for UPLC-QTOF-Based Nontargeted Metabolic Profiling Analysis. <i>Analytical Chemistry</i> , 2017, 89, 11083-11090.	6.5	45
9	Osteocyte-Driven Downregulation of Snail Restrains Effects of Drd2 Inhibitors on Mammary Tumor Cells. <i>Cancer Research</i> , 2018, 78, 3865-3876.	0.9	43
10	Skeletal loading regulates breast cancer-associated osteolysis in a loading intensity-dependent fashion. <i>Bone Research</i> , 2020, 8, 9.	11.4	40
11	Turn-off fluorescent data array sensor based on double quantum dots coupled with chemometrics for highly sensitive and selective detection of multicomponent pesticides. <i>Analytica Chimica Acta</i> , 2016, 916, 84-91.	5.4	39
12	Rational design of an on-off-on fluorescent assay for chiral amino acids based on quantum dots and nanoporphyrin. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 1-8.	7.8	33
13	Colorimetric sensor array based on silver deposition of gold nanorods for discrimination of Chinese white spirits. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128256.	7.8	32
14	A simple multi-scale Gaussian smoothing-based strategy for automatic chromatographic peak extraction. <i>Journal of Chromatography A</i> , 2016, 1452, 1-9.	3.7	30
15	Simple automatic strategy for background drift correction in chromatographic data analysis. <i>Journal of Chromatography A</i> , 2016, 1449, 89-99.	3.7	30
16	Preventing tumor progression to the bone by induced tumor-suppressing MSCs. <i>Theranostics</i> , 2021, 11, 5143-5159.	10.0	30
17	Tyndall-effect-enhanced supersensitive naked-eye determination of mercury (II) ions with silver nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130218.	7.8	30
18	Detection of tetracycline antibiotics using fluorescent Turn-off sensor based on S, N-doped carbon quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 274, 121033.	3.9	30

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19	A comprehensive quality evaluation method by FT-NIR spectroscopy and chemometric: Fine classification and untargeted authentication against multiple frauds for Chinese <i>Ganoderma lucidum</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 182, 17-25.	3.9	29
20	“Turn-off” fluorescent sensor based on double quantum dots coupled with chemometrics for highly sensitive and specific recognition of 53 famous green teas. <i>Analytica Chimica Acta</i> , 2018, 1008, 103-110.	5.4	29
21	A novel enhanced fluorescence method based on multifunctional carbon dots for specific detection of Hg <sup>2+</sup> in complex samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 220, 117109.	3.9	29
22	Detection of unexpected frauds: Screening and quantification of maleic acid in cassava starch by Fourier transform near-infrared spectroscopy. <i>Food Chemistry</i> , 2017, 227, 322-328.	8.2	28
23	Prenylated Indole Diterpene Alkaloids from a Mine-Soil-Derived <i>Tolypocladium</i> sp.. <i>Journal of Natural Products</i> , 2019, 82, 221-231.	3.0	27
24	A comprehensive automatic data analysis strategy for gas chromatography-mass spectrometry based untargeted metabolomics. <i>Journal of Chromatography A</i> , 2020, 1616, 460787.	3.7	27
25	“Turn-off” fluorescent sensor for highly sensitive and specific simultaneous recognition of 29 famous green teas based on quantum dots combined with chemometrics. <i>Analytica Chimica Acta</i> , 2017, 963, 119-128.	5.4	26
26	Ultrasensitive visual detection of Hg <sup>2+</sup> ions via the Tyndall effect of gold nanoparticles. <i>Chemical Communications</i> , 2021, 57, 2613-2616.	4.1	25
27	Pitavastatin slows tumor progression and alters urine-derived volatile organic compounds through the mevalonate pathway. <i>FASEB Journal</i> , 2019, 33, 13710-13721.	0.5	22
28	Using the Rubik's Cube to directly produce paper analytical devices for quantitative point-of-care aptamer-based assays. <i>Biosensors and Bioelectronics</i> , 2017, 96, 194-200.	10.1	21
29	Emericellins A and B: Two sesquiterpenoids with an unprecedented tricyclo[4,4,2,1]hendecane scaffold from the liquid cultures of endophytic fungus <i>Emericella</i> sp. XL 029. <i>Fä-toterapÄ-t</i> , 2018, 131, 55-58.	2.2	21
30	Automatic data analysis workflow for ultra-high performance liquid chromatography-high resolution mass spectrometry-based metabolomics. <i>Journal of Chromatography A</i> , 2019, 1585, 172-181.	3.7	19
31	Fusion of near-infrared and fluorescence spectroscopy for untargeted fraud detection of Chinese tea seed oil using chemometric methods. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 2285-2291.	3.5	19
32	Development of a triple channel colorimetric paper sensor array based on quantum dots: A robust tool for process monitoring and quality control of basic liquors of Baijiu. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128260.	7.8	19
33	Quantitative analysis of tea using ytterbium-based internal standard near-infrared spectroscopy coupled with boosting least-squares support vector regression. <i>Journal of Chemometrics</i> , 2013, 27, 198-206.	1.3	18
34	A chemometric-assisted method based on gas chromatography-mass spectrometry for metabolic profiling analysis. <i>Journal of Chromatography A</i> , 2015, 1399, 65-73.	3.7	18
35	Fine classification and untargeted detection of multiple adulterants of <i>Gastrodia elata</i> Bl. (GE) by near-infrared spectroscopy coupled with chemometrics. <i>Analytical Methods</i> , 2017, 9, 1897-1904.	2.7	18
36	Construction of an Efficacious Model for a Nondestructive Identification of Traditional Chinese Medicines Liuwei Dihuang Pills from Different Manufacturers Using Near-infrared Spectroscopy and Moving Window Partial Least-squares Discriminant Analysis. <i>Analytical Sciences</i> , 2009, 25, 1143-1148.	1.6	17

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37	A new third-order calibration method with application for analysis of four-way data arrays. <i>Journal of Chemometrics</i> , 2011, 25, 408-429.	1.3	17
38	Rapid Discrimination for Traditional Complex Herbal Medicines from Different Parts, Collection Time, and Origins Using High-Performance Liquid Chromatography and Near-Infrared Spectral Fingerprints with Aid of Pattern Recognition Methods. <i>Journal of Analytical Methods in Chemistry</i> , 2015, 2015, 1-10.	1.6	17
39	Turn-off fluorescent sensor for (N-methyl-4-pyridyl) porphyrin-DNA and G-quadruplex interactions based on ZnCdSe quantum dots. <i>Analytica Chimica Acta</i> , 2015, 888, 131-137.	5.4	17
40	Challenges of large-class-number classification (LCNC): A novel ensemble strategy (ES) and its application to discriminating the geographical origins of 25 green teas. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 157, 43-49.	3.5	17
41	Representative splitting cross validation. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 183, 29-35.	3.5	16
42	A colorimetric sensor array for recognition of 32 Chinese traditional cereal vinegars based on turn-off fluorescence of acid-sensitive quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 227, 117683.	3.9	16
43	Rapid and highly sensitive colorimetric biosensor for the detection of glucose and hydrogen peroxide based on nanoporphyrin combined with bromine as a peroxidase-like catalyst. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130104.	7.8	16
44	Moving Window Partial Least-Squares Discriminant Analysis for Identification of Different Kinds of Bezoar Samples by near Infrared Spectroscopy and Comparison of Different Pattern Recognition Methods. <i>Journal of Near Infrared Spectroscopy</i> , 2007, 15, 291-297.	1.5	15
45	Accurate identification of the geographical origins of lily using near-infrared spectroscopy combined with carbon dot-tetramethoxyporphyrin nanocomposite and chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 271, 120932.	3.9	15
46	Mass-spectra-based peak alignment for automatic nontargeted metabolic profiling analysis for biomarker screening in plant samples. <i>Journal of Chromatography A</i> , 2017, 1513, 201-209.	3.7	14
47	The baroreflex afferent pathway plays a critical role in H <sub>2</sub> S-mediated autonomic control of blood pressure regulation under physiological and hypertensive conditions. <i>Acta Pharmacologica Sinica</i> , 2021, 42, 898-908.	6.1	14
48	Furfural and organic acid targeted carbon dot sensor array for the accurate identification of Chinese baijiu. <i>Journal of Food Science</i> , 2021, 86, 2924-2938.	3.1	14
49	Carbonyl flavor compound-targeted colorimetric sensor array based on silver nitrate and o-phenylenediamine derivatives for the discrimination of Chinese Baijiu. <i>Food Chemistry</i> , 2022, 372, 131216.	8.2	14
50	Geographical origin traceability of traditional Chinese medicine <i>Atractylodes macrocephala</i> Koidz. by using multi-way fluorescence fingerprint and chemometric methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 269, 120737.	3.9	14
51	Oxidation of alkylaromatics to aromatic ketones catalyzed by metalloporphyrins under the special temperature control method. <i>Canadian Journal of Chemistry</i> , 2014, 92, 1059-1065.	1.1	13
52	Four-channel fluorescent sensor array based on various functionalized CdTe quantum dots for the discrimination of Chinese baijiu. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 252, 119513.	3.9	13
53	Dual-QDs ratios fluorescent probe for sensitive and selective detection of silver ions contamination in real sample. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 234, 118248.	3.9	12
54	Visual paper-based sensor for the highly sensitive detection of caffeine in food and biological matrix based on CdTe-nano ZnTPyP combined with chemometrics. <i>Mikrochimica Acta</i> , 2021, 188, 27.	5.0	12

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55	A novel fluorescence sensing strategy based on nanoparticles combined with spectral splicing and chemometrics for the recognition of <i>Citrus reticulata</i> and its storage year. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 4199-4207.	3.5	11
56	Loading-induced antitumor capability of murine and human urine. <i>FASEB Journal</i> , 2020, 34, 7578-7592.	0.5	11
57	Fluorescent sensor based on quantum dots and nano-porphyrin for highly sensitive and specific determination of ethyl carbamate in fermented food. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 6193-6201.	3.5	11
58	Automatic configuration of optimized sample-weighted least-squares support vector machine by particle swarm optimization for multivariate spectral analysis. <i>Analytical Methods</i> , 2010, 2, 282.	2.7	10
59	Synthesis of N-acetyl-L-cysteine-capped ZnCdSe quantum dots via hydrothermal method and their characterization. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 055001.	6.1	10
60	Rapid Detection of Exogenous Adulterants and Species Discrimination for a Chinese Functional Tea (Banlangen) by Fourier Transform Near-Infrared (FT-NIR) Spectroscopy and Chemometrics. <i>Journal of Food Quality</i> , 2015, 38, 450-457.	2.6	10
61	Quantification of acid metabolites in complex plant samples by using second-order calibration coupled with GC-mass spectrometry detection to resolve the influence of seriously overlapped chromatographic peaks. <i>Analytical Methods</i> , 2016, 8, 747-755.	2.7	9
62	Direct activation of tachykinin receptors within baroreflex afferent pathway and neurocontrol of blood pressure regulation. <i>CNS Neuroscience and Therapeutics</i> , 2019, 25, 123-135.	3.9	9
63	Non-targeted Detection of Multiple Frauds in Orange Juice Using Double Water-Soluble Fluorescence Quantum Dots and Chemometrics. <i>Food Analytical Methods</i> , 2019, 12, 2614-2622.	2.6	9
64	Nanoporphyrin/CdTe quantum dots: A robust tool for effective differentiation among DNA structures. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 623-633.	7.8	9
65	Rapid detection of five pesticide residues using complexes of gold nanoparticle and porphyrin combined with ultraviolet visible spectrum. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 4464-4473.	3.5	9
66	Novel colorimetric sensor array for identification of baijiu using color reactions of flavor compounds. <i>Microchemical Journal</i> , 2021, 167, 106277.	4.5	9
67	Simultaneous Recognition of Species, Quality Grades, and Multivariate Calibration of Antioxidant Activities for 12 Famous Green Teas Using Mid- and Near-Infrared Spectroscopy Coupled with Chemometrics. <i>Journal of Analytical Methods in Chemistry</i> , 2019, 2019, 1-14.	1.6	8
68	Rapid Detection of Pesticide Residues in Chinese Herbal Medicines by Fourier Transform Infrared Spectroscopy Coupled with Partial Least Squares Regression. <i>Journal of Spectroscopy</i> , 2016, 2016, 1-9.	1.3	7
69	Simultaneous determination of Repaglinide and Irbesartan in biological plasmas using micellar enhanced excitation-emission matrix fluorescence coupled with ATLD method. <i>Science China Chemistry</i> , 2016, 59, 816-823.	8.2	7
70	Predicting Mildew Contamination and Shelf-Life of Sunflower Seeds and Soybeans by Fourier Transform Near-Infrared Spectroscopy and Chemometric Data Analysis. <i>Food Analytical Methods</i> , 2017, 10, 1597-1608.	2.6	7
71	ZnCdSe-CdTe quantum dots: A turn-off fluorescent probe for the detection of multiple adulterants in an herbal honey. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 221, 117212.	3.9	7
72	Differentiating Westlake Longjing tea from the first and second grade producing regions using ultra high performance liquid chromatography with quadrupole time-of-flight mass spectrometry based untargeted metabolomics in combination with chemometrics. <i>Journal of Separation Science</i> , 2020, 43, 2794-2803.	2.5	7

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73	Determination of theanine in tea water using fluorescence visualized paper-based sensors based on CdTe quantum dots/corn carbon dots and nano-porphyrin with chemometrics. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 2552-2560.	3.5	7
74	Fluorescent Ionic Liquid Membranes Based on Coumarin for the Real-Time and Visual Detection of Gaseous SO <sub>2</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2784-2792.	6.7	7
75	Simultaneous detection of multiple frauds in kiwifruit juice by fusion of traditional and double-quantum-dots enhanced fluorescent spectroscopic techniques and chemometrics. <i>Microchemical Journal</i> , 2020, 157, 105105.	4.5	6
76	Classification of organic and ordinary kiwifruit by chemometrics analysis of elemental fingerprint and stable isotopic ratios. <i>Journal of Food Science</i> , 2021, 86, 3447-3456.	3.1	6
77	A chemometric strategy for accurately identifying illegal additive compounds in health foods by using ultra-high-performance liquid chromatography coupled to high resolution mass spectrometry. <i>Analytical Methods</i> , 2021, 13, 1731-1739.	2.7	6
78	Electronic effects of the substituent on the dioxygen-activating abilities of substituted iron tetraphenylporphyrins: a theoretical study. <i>Journal of Molecular Modeling</i> , 2015, 21, 92.	1.8	5
79	Adsorption capacity, kinetics, and thermodynamics of chitosan nanoparticles onto cotton fabrics without any chemical binders. <i>Polymer Composites</i> , 2015, 36, 2093-2102.	4.6	5
80	Enhanced Specificity for Detection of Frauds by Fusion of Multi-class and One-Class Partial Least Squares Discriminant Analysis: Geographical Origins of Chinese Shiitake Mushroom. <i>Food Analytical Methods</i> , 2016, 9, 451-458.	2.6	5
81	Pharmacokinetic Analysis of Four Bioactive Iridoid and Secoiridoid Glycoside Components of Radix Gentianae Macrophyllae and Their Synergistic Excretion by HPLC-DAD Combined with Second-Order Calibration. <i>Natural Products and Bioprospecting</i> , 2017, 7, 445-459.	4.3	5
82	A novel strategy for extracted ion chromatogram extraction to improve peak detection in UPLC-HRMS. <i>Analytical Methods</i> , 2018, 10, 5118-5126.	2.7	5
83	Chemometric Analysis of Elemental Fingerprints for GE Authentication of Multiple Geographical Origins. <i>Journal of Analytical Methods in Chemistry</i> , 2019, 2019, 1-7.	1.6	5
84	Target-triggered in situ autocatalysis in nanopore membrane for point-of-care testing of sub-nanomolar Ag <sup>+</sup> . <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 290-295.	7.8	5
85	Colorimetric discrimination of tea polyphenols based on boronic acid sensor assembled with pH indicator. <i>Dyes and Pigments</i> , 2022, 203, 110326.	3.7	5
86	Micellar Enhanced Three-Dimensional Excitation-Emission Matrix Fluorescence for Rapid Determination of Antihypertensives in Human Plasma with Aid of Second-Order Calibration Methods. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-11.	1.3	4
87	Rate-limiting step of the iron porphyrin-catalysed oxidation of cyclohexane to adipic acid by DFT method. <i>Molecular Simulation</i> , 2015, 41, 262-270.	2.0	4
88	Mechanical tibial loading remotely suppresses brain tumors by dopamine-mediated downregulation of CCN4. <i>Bone Research</i> , 2021, 9, 26.	11.4	4
89	A new platform for untargeted UHPLC-HRMS data analysis to address the time-shift problem. <i>Analytica Chimica Acta</i> , 2022, 1193, 339393.	5.4	4
90	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry combined with chemometrics to identify the origin of Chinese medicinal materials. <i>RSC Advances</i> , 2022, 12, 16886-16892.	3.6	4

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91	Simultaneous Determination of Dextromethorphan and Quinidine Contents in Biological Fluid Samples Using Excitation-Emission Matrix Fluorescence Coupled with Second-Order Calibration Methods. <i>Analytical Letters</i> , 2010, 43, 2739-2750.	1.8	3
92	Simultaneous quantitative structure-activity relationship analysis of catalyst activity and selectivity in the direct oxidation of C-H bonds. <i>Journal of Chemometrics</i> , 2019, 33, e3165.	1.3	3
93	Maillard reaction products and guaiacol as production process and raw material markers for the authentication of sesame oil. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 250-258.	3.5	3
94	Pb <sup>2+</sup> Responsive Cu-In-Zn-S Quantum Dots With Low Cytotoxicity. <i>Frontiers in Chemistry</i> , 2022, 10, 821392.	3.6	3
95	A novel dual-channel fluorescence sensor array based on the reaction of o-phenylenediamine/3,4-diaminotoluene and pyrocatechol for Baijiu discrimination. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 278, 121273.	3.9	3
96	Quality Degradation of Chinese White Lotus Seeds Caused by Dampening during Processing and Storage: Rapid and Nondestructive Discrimination Using Near-Infrared Spectroscopy. <i>Journal of Analytical Methods in Chemistry</i> , 2015, 2015, 1-7.	1.6	2
97	Study of special catalytic behaviors of the metal porphyrins with different central metal ions in the aerobic oxidation of 4-nitroethylbenzene to 4-nitroacetophenone. <i>Russian Journal of Applied Chemistry</i> , 2015, 88, 885-890.	0.5	2
98	Interpretable linear and nonlinear quantitative structure-selectivity relationship (QSSR) modeling of a biomimetic catalytic system by particle swarm optimization based sparse regression. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 159, 187-195.	3.5	2
99	Selective aerobic oxidation of p-cresol with co-catalysts between metalloporphyrins and metal salts. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 1493-1498.	3.5	2
100	Classification of Different Blueberry Cultivars by Analysis of Physical Factors, Chemical and Nutritional Ingredients, and Antioxidant Capacities. <i>Journal of Food Quality</i> , 2020, 2020, 1-9.	2.6	1
101	Data fusion of synchronous fluorescence and surface enhanced Raman scattering spectroscopies for geographical origin traceability of <i>Atractylodes macrocephala</i> Koidz. <i>Spectroscopy Letters</i> , 2022, 55, 290-301.	1.0	1
102	An inner filter effect-based nitrogen doped carbon $\text{CoOOH}$ nanoflakes fluorescence probe for detection of ascorbic acid by chemical REDOX modulation. <i>Journal of the Science of Food and Agriculture</i> , 0, .	3.5	0
103	Rapid Identification of Fupenzi ( <i>Rubus chingii</i> Hu) and Its Adulteration by AuNP Visualization. <i>Journal of Food Quality</i> , 2022, 2022, 1-10.	2.6	0