

Yun Xu

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

5,387
citations

94433

37
h-index

88630

70
g-index

103
all docs

103
docs citations

103
times ranked

8037
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Untargeted metabolomics of COVID-19 patient serum reveals potential prognostic markers of both severity and outcome. <i>Metabolomics</i> , 2022, 18, 6. | 3.0 | 60 |
| 2 | Rapid detection and quantification of the adulteration of orange juice with grapefruit juice using handheld Raman spectroscopy and multivariate analysis. <i>Analytical Methods</i> , 2022, 14, 1663-1670. | 2.7 | 11 |
| 3 | Simultaneous Raman and infrared spectroscopy: a novel combination for studying bacterial infections at the single cell level. <i>Chemical Science</i> , 2022, 13, 8171-8179. | 7.4 | 22 |
| 4 | Metabolism in action: stable isotope probing using vibrational spectroscopy and SIMS reveals kinetic and metabolic flux of key substrates. <i>Analyst, The</i> , 2021, 146, 1734-1746. | 3.5 | 9 |
| 5 | Imaging Isotopically Labeled Bacteria at the Single-Cell Level Using High-Resolution Optical Infrared Photothermal Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 3082-3088. | 6.5 | 41 |
| 6 | Rapid Spectroscopic Liquid Biopsy for the Universal Detection of Brain Tumours. <i>Cancers</i> , 2021, 13, 3851. | 3.7 | 22 |
| 7 | Assessing the impact of nitrogen supplementation in oats across multiple growth locations and years with targeted phenotyping and high-resolution metabolite profiling approaches. <i>Food Chemistry</i> , 2021, 355, 129585. | 8.2 | 8 |
| 8 | Portable through Bottle SORS for the Authentication of Extra Virgin Olive Oil. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8347. | 2.5 | 11 |
| 9 | Comparing root exudate collection techniques: An improved hybrid method. <i>Soil Biology and Biochemistry</i> , 2021, 161, 108391. | 8.8 | 49 |
| 10 | Optimization of XCMS parameters for LC-MS metabolomics: an assessment of automated versus manual tuning and its effect on the final results. <i>Metabolomics</i> , 2020, 16, 14. | 3.0 | 33 |
| 11 | Evaluation of Sample Preparation Methods for Inter-Laboratory Metabolomics Investigation of <i>Streptomyces lividans</i> TK24. <i>Metabolites</i> , 2020, 10, 379. | 2.9 | 3 |
| 12 | Phospholipidomics of peripheral blood mononuclear cells (PBMCs): the tricky case of children with autism spectrum disorder (ASD) and their healthy siblings. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6859-6874. | 3.7 | 7 |
| 13 | Comparison of liver and plasma metabolic profiles in piglets of different ages as animal models for paediatric population. <i>Analyst, The</i> , 2020, 145, 6859-6867. | 3.5 | 2 |
| 14 | A microbiome and metabolomic signature of phases of cutaneous healing identified by profiling sequential acute wounds of human skin: An exploratory study. <i>PLoS ONE</i> , 2020, 15, e0229545. | 2.5 | 24 |
| 15 | Metabolic dysregulation in vitamin A and carnitine shuttle energy mechanisms associate with human frailty. <i>Nature Communications</i> , 2019, 10, 5027. | 12.8 | 70 |
| 16 | Rapid through-container detection of fake spirits and methanol quantification with handheld Raman spectroscopy. <i>Analyst, The</i> , 2019, 144, 324-330. | 3.5 | 46 |
| 17 | Rapid Detection and Quantification of Novel Psychoactive Substances (NPS) Using Raman Spectroscopy and Surface-Enhanced Raman Scattering. <i>Frontiers in Chemistry</i> , 2019, 7, 412. | 3.6 | 32 |
| 18 | Discovery of Volatile Biomarkers of Parkinson's Disease from Sebum. <i>ACS Central Science</i> , 2019, 5, 599-606. | 11.3 | 100 |

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|----|---|-----|-----------|
| 19 | Application of HPLC-MS metabolite profiling to investigate the effect of growth temperature and day length on blackcurrant fruit. <i>Metabolomics</i> , 2019, 15, 12. | 3.0 | 24 |
| 20 | Rapid UHPLC-MS metabolite profiling and phenotypic assays reveal genotypic impacts of nitrogen supplementation in oats. <i>Metabolomics</i> , 2019, 15, 42. | 3.0 | 16 |
| 21 | Global metabolite profiles of rice brown planthopper-resistant traits reveal potential secondary metabolites for both constitutive and inducible defenses. <i>Metabolomics</i> , 2019, 15, 151. | 3.0 | 13 |
| 22 | Ultrasensitive Colorimetric Detection of Murine Norovirus Using NanoZyme Aptasensor. <i>Analytical Chemistry</i> , 2019, 91, 3270-3276. | 6.5 | 174 |
| 23 | Methodological considerations for large-scale breath analysis studies: lessons from the U-BIOPRED severe asthma project. <i>Journal of Breath Research</i> , 2019, 13, 016001. | 3.0 | 20 |
| 24 | On Splitting Training and Validation Set: A Comparative Study of Cross-Validation, Bootstrap and Systematic Sampling for Estimating the Generalization Performance of Supervised Learning. <i>Journal of Analysis and Testing</i> , 2018, 2, 249-262. | 5.1 | 423 |
| 25 | pH plays a role in the mode of action of trimethoprim on <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2018, 13, e0200272. | 2.5 | 16 |
| 26 | Absolute Quantification of Uric Acid in Human Urine Using Surface Enhanced Raman Scattering with the Standard Addition Method. <i>Analytical Chemistry</i> , 2017, 89, 2472-2477. | 6.5 | 112 |
| 27 | Probing the action of a novel anti-leukaemic drug therapy at the single cell level using modern vibrational spectroscopy techniques. <i>Scientific Reports</i> , 2017, 7, 2649. | 3.3 | 28 |
| 28 | Quantitative Online Liquid Chromatography-Surface-Enhanced Raman Scattering (LC-SERS) of Methotrexate and its Major Metabolites. <i>Analytical Chemistry</i> , 2017, 89, 6702-6709. | 6.5 | 63 |
| 29 | Real-Time Monitoring of Enzyme-Catalysed Reactions using Deep UV Resonance Raman Spectroscopy. <i>Chemistry - A European Journal</i> , 2017, 23, 6983-6987. | 3.3 | 9 |
| 30 | From Multistep Enzyme Monitoring to Whole-Cell Biotransformations: Development of Real-Time Ultraviolet Resonance Raman Spectroscopy. <i>Analytical Chemistry</i> , 2017, 89, 12527-12532. | 6.5 | 6 |
| 31 | Through-container, extremely low concentration detection of multiple chemical markers of counterfeit alcohol using a handheld SORS device. <i>Scientific Reports</i> , 2017, 7, 12082. | 3.3 | 60 |
| 32 | Objective assessment of SERS thin films: comparison of silver on copper via galvanic displacement with commercially available fabricated substrates. <i>Analytical Methods</i> , 2017, 9, 4783-4789. | 2.7 | 12 |
| 33 | Towards improved quantitative analysis using surface-enhanced Raman scattering incorporating internal isotope labelling. <i>Analytical Methods</i> , 2017, 9, 6636-6644. | 2.7 | 18 |
| 34 | Metabolic Fingerprinting of <i>Pseudomonas putida</i> DOT-T1E Strains: Understanding the Influence of Divalent Cations in Adaptation Mechanisms Following Exposure to Toluene. <i>Metabolites</i> , 2016, 6, 14. | 2.9 | 0 |
| 35 | Partial Least Squares with Structured Output for Modelling the Metabolomics Data Obtained from Complex Experimental Designs: A Study into the Y-Block Coding. <i>Metabolites</i> , 2016, 6, 38. | 2.9 | 9 |
| 36 | Label-Free Surface Enhanced Raman Scattering Approach for High-Throughput Screening of Biocatalysts. <i>Analytical Chemistry</i> , 2016, 88, 5898-5903. | 6.5 | 36 |

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|----|--|------|-----------|
| 37 | Classification of <i>Bacillus</i> and <i>Brevibacillus</i> species using rapid analysis of lipids by mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7865-7878. | 3.7 | 17 |
| 38 | Rapid, Accurate, and Quantitative Detection of Propranolol in Multiple Human Biofluids via Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2016, 88, 10884-10892. | 6.5 | 52 |
| 39 | Rapid, accurate, and comparative differentiation of clinically and industrially relevant microorganisms via multiple vibrational spectroscopic fingerprinting. <i>Analyst, The</i> , 2016, 141, 5127-5136. | 3.5 | 40 |
| 40 | Rapid discrimination of <i>Enterococcus faecium</i> strains using phenotypic analytical techniques. <i>Analytical Methods</i> , 2016, 8, 7603-7613. | 2.7 | 9 |
| 41 | Intermittent energy restriction induces changes in breast gene expression and systemic metabolism. <i>Breast Cancer Research</i> , 2016, 18, 57. | 5.0 | 37 |
| 42 | Rapid, high-throughput, and quantitative determination of orange juice adulteration by Fourier-transform infrared spectroscopy. <i>Analytical Methods</i> , 2016, 8, 5581-5586. | 2.7 | 28 |
| 43 | Metabolic analysis of the response of <i>Pseudomonas putida</i> DOT-T1E strains to toluene using Fourier transform infrared spectroscopy and gas chromatography mass spectrometry. <i>Metabolomics</i> , 2016, 12, 112. | 3.0 | 9 |
| 44 | Evaluation of metabolomics profiles of grain from maize hybrids derived from near-isogenic GM positive and negative segregant inbreds demonstrates that observed differences cannot be attributed unequivocally to the GM trait. <i>Metabolomics</i> , 2016, 12, 82. | 3.0 | 18 |
| 45 | Metabolomic analysis of riboswitch containing <i>E. coli</i> recombinant expression system. <i>Molecular BioSystems</i> , 2016, 12, 350-361. | 2.9 | 16 |
| 46 | Metabolomics Analysis Reveals the Participation of Efflux Pumps and Ornithine in the Response of <i>Pseudomonas putida</i> DOT-T1E Cells to Challenge with Propranolol. <i>PLoS ONE</i> , 2016, 11, e0156509. | 2.5 | 11 |
| 47 | Acclimation of metabolism to light in <i>Arabidopsis thaliana</i> : the glucose 6-phosphate/phosphate translocator GPT2 directs metabolic acclimation. <i>Plant, Cell and Environment</i> , 2015, 38, 1404-1417. | 5.7 | 79 |
| 48 | PWE-200 Metabolomic profiling in pancreatic cancer; in search of new biomarkers. <i>Gut</i> , 2015, 64, A300.1-A300. | 12.1 | 0 |
| 49 | Metabolomics investigation of recombinant mTNF \pm production in <i>Streptomyces lividans</i> . <i>Microbial Cell Factories</i> , 2015, 14, 157. | 4.0 | 18 |
| 50 | Metabolic Profiling of <i>Geobacter sulfurreducens</i> during Industrial Bioprocess Scale-Up. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3288-3298. | 3.1 | 26 |
| 51 | Surveillance for lower airway pathogens in mechanically ventilated patients by metabolomic analysis of exhaled breath: a case-control study. <i>Thorax</i> , 2015, 70, 320-325. | 5.6 | 54 |
| 52 | Exploring the mode of action of dithranol therapy for psoriasis: a metabolomic analysis using HaCaT cells. <i>Molecular BioSystems</i> , 2015, 11, 2198-2209. | 2.9 | 20 |
| 53 | PTU-093 Metabolomic profiling in inflammatory bowel disease. <i>Gut</i> , 2015, 64, A102.1-A102. | 12.1 | 0 |
| 54 | A tutorial review: Metabolomics and partial least squares-discriminant analysis – a marriage of convenience or a shotgun wedding. <i>Analytica Chimica Acta</i> , 2015, 879, 10-23. | 5.4 | 618 |

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|----|---|-----|-----------|
| 55 | Detection and quantification of the opioid tramadol in urine using surface enhanced Raman scattering. <i>Analyst, The</i> , 2015, 140, 5965-5970. | 3.5 | 34 |
| 56 | Profiling of spatial metabolite distributions in wheat leaves under normal and nitrate limiting conditions. <i>Phytochemistry</i> , 2015, 115, 99-111. | 2.9 | 24 |
| 57 | Simultaneous multiplexed quantification of caffeine and its major metabolites theobromine and paraxanthine using surface-enhanced Raman scattering. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8253-8261. | 3.7 | 42 |
| 58 | The influence of scaling metabolomics data on model classification accuracy. <i>Metabolomics</i> , 2015, 11, 684-695. | 3.0 | 62 |
| 59 | A workflow for bacterial metabolic fingerprinting and lipid profiling: application to Ciprofloxacin challenged <i>Escherichia coli</i> . <i>Metabolomics</i> , 2015, 11, 438-453. | 3.0 | 10 |
| 60 | Phenotypic Characterisation of <i>Shewanella oneidensis</i> MR-1 Exposed to X-Radiation. <i>PLoS ONE</i> , 2015, 10, e0131249. | 2.5 | 7 |
| 61 | Implementation of Fourier transform infrared spectroscopy for the rapid typing of uropathogenic <i>Escherichia coli</i> . <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2014, 33, 983-988. | 2.9 | 22 |
| 62 | Chemometrics models for overcoming high between subject variability: applications in clinical metabolic profiling studies. <i>Metabolomics</i> , 2014, 10, 375-385. | 3.0 | 12 |
| 63 | A comparative investigation of modern feature selection and classification approaches for the analysis of mass spectrometry data. <i>Analytica Chimica Acta</i> , 2014, 829, 1-8. | 5.4 | 93 |
| 64 | Metabolomics in melon: A new opportunity for aroma analysis. <i>Phytochemistry</i> , 2014, 99, 61-72. | 2.9 | 66 |
| 65 | Simultaneous multiplexed quantification of nicotine and its metabolites using surface enhanced Raman scattering. <i>Analyst, The</i> , 2014, 139, 4820-4827. | 3.5 | 43 |
| 66 | Multiple metabolomics of uropathogenic <i>E. coli</i> reveal different information content in terms of metabolic potential compared to virulence factors. <i>Analyst, The</i> , 2014, 139, 4193-4199. | 3.5 | 16 |
| 67 | A metabolomics investigation into the effects of HIV protease inhibitors on HPV16 E6 expressing cervical carcinoma cells. <i>Molecular BioSystems</i> , 2014, 10, 398-411. | 2.9 | 10 |
| 68 | Compositional Equivalence of Grain from Multi-trait Drought-Tolerant Maize Hybrids to a Conventional Comparator: Univariate and Multivariate Assessments. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 9597-9608. | 5.2 | 9 |
| 69 | Optimization of matrix assisted desorption/ionization time of flight mass spectrometry (MALDI-TOF-MS) for the characterization of <i>Bacillus</i> and <i>Brevibacillus</i> species. <i>Analytica Chimica Acta</i> , 2014, 840, 49-57. | 5.4 | 30 |
| 70 | Influence of Missing Values Substitutes on Multivariate Analysis of Metabolomics Data. <i>Metabolites</i> , 2014, 4, 433-452. | 2.9 | 158 |
| 71 | Integrating multiple analytical platforms and chemometrics for comprehensive metabolic profiling: application to meat spoilage detection. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5063-5074. | 3.7 | 25 |
| 72 | The challenge of applying Raman spectroscopy to monitor recombinant antibody production. <i>Analyst, The</i> , 2013, 138, 6977. | 3.5 | 28 |

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|----|--|-----|-----------|
| 73 | A comparison of Raman and FT-IR spectroscopy for the prediction of meat spoilage. <i>Food Control</i> , 2013, 29, 461-470. | 5.5 | 115 |
| 74 | Portable, Quantitative Detection of <i>Bacillus</i> Bacterial Spores Using Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2013, 85, 3297-3302. | 6.5 | 130 |
| 75 | Quality Evaluation of <i>Arnebiae Radix</i> Using Multiple Qualitative and Quantitative Methods Coupled with Multivariate Statistical Analysis. <i>Current Pharmaceutical Analysis</i> , 2013, 9, 217-225. | 0.6 | 1 |
| 76 | Dupuytren's disease metabolite analyses reveals alterations following initial short-term fibroblast culturing. <i>Molecular BioSystems</i> , 2012, 8, 2274. | 2.9 | 17 |
| 77 | The optimisation of facile substrates for surface enhanced Raman scattering through galvanic replacement of silver onto copper. <i>Analyst, The</i> , 2012, 137, 2791. | 3.5 | 27 |
| 78 | Detection and Quantification of Bacterial Spoilage in Milk and Pork Meat Using MALDI-TOF-MS and Multivariate Analysis. <i>Analytical Chemistry</i> , 2012, 84, 5951-5958. | 6.5 | 62 |
| 79 | Multiblock principal component analysis: an efficient tool for analyzing metabolomics data which contain two influential factors. <i>Metabolomics</i> , 2012, 8, 37-51. | 3.0 | 44 |
| 80 | Metabolic profiling of meat: assessment of pork hygiene and contamination with <i>Salmonella typhimurium</i> . <i>Analyst, The</i> , 2011, 136, 508-514. | 3.5 | 17 |
| 81 | Fourier Transform Infrared and Raman Spectroscopies for the Rapid Detection, Enumeration, and Growth Interaction of the Bacteria <i>Staphylococcus aureus</i> and <i>Lactococcus lactis</i> ssp. <i>cremoris</i> in Milk. <i>Analytical Chemistry</i> , 2011, 83, 5681-5687. | 6.5 | 63 |
| 82 | MALDI-MS and multivariate analysis for the detection and quantification of different milk species. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3491-3502. | 3.7 | 72 |
| 83 | Analysis of Volatile Organic Compounds in Human Saliva by a Static Sorptive Extraction Method and Gas Chromatography-Mass Spectrometry. <i>Journal of Chemical Ecology</i> , 2010, 36, 1035-1042. | 1.8 | 78 |
| 84 | VOC-based metabolic profiling for food spoilage detection with the application to detecting <i>Salmonella typhimurium</i> -contaminated pork. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2439-2449. | 3.7 | 50 |
| 85 | Novel noninvasive identification of biomarkers by analytical profiling of chronic wounds using volatile organic compounds. <i>Wound Repair and Regeneration</i> , 2010, 18, 391-400. | 3.0 | 78 |
| 86 | Non-invasive metabolomic analysis of breath using differential mobility spectrometry in patients with chronic obstructive pulmonary disease and healthy smokers. <i>Analyst, The</i> , 2010, 135, 315. | 3.5 | 119 |
| 87 | Fourier transform infrared spectroscopy and multivariate analysis for the detection and quantification of different milk species. <i>Journal of Dairy Science</i> , 2010, 93, 5651-5660. | 3.4 | 126 |
| 88 | Quantitative Analysis of the Banned Food Dye Sudan-1 Using Surface Enhanced Raman Scattering with Multivariate Chemometrics. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7285-7290. | 3.1 | 126 |
| 89 | Combining metabolic fingerprinting and footprinting to understand the phenotypic response of HPV16 E6 expressing cervical carcinoma cells exposed to the HIV anti-viral drug lopinavir. <i>Analyst, The</i> , 2010, 135, 1235. | 3.5 | 35 |
| 90 | Assessment of adaptive focused acoustics versus manual vortex/freeze-thaw for intracellular metabolite extraction from <i>Streptomyces lividans</i> producing recombinant proteins using GC-MS and multi-block principal component analysis. <i>Analyst, The</i> , 2010, 135, 934. | 3.5 | 25 |

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| 91 | ¹ H NMR, GC-EI-TOFMS, and Data Set Correlation for Fruit Metabolomics: Application to Spatial Metabolite Analysis in Melon. <i>Analytical Chemistry</i> , 2009, 81, 2884-2894. | 6.5 | 147 |
| 92 | Consensus multivariate methods in gas chromatography mass spectrometry and denaturing gradient gel electrophoresis: MHC-congenic and other strains of mice can be classified according to the profiles of volatiles and microflora in their scent-marks. <i>Analyst, The</i> , 2009, 134, 114-123. | 3.5 | 39 |
| 93 | Individual and gender fingerprints in human body odour. <i>Journal of the Royal Society Interface</i> , 2007, 4, 331-340. | 3.4 | 320 |
| 94 | Application of Dissimilarity Indices, Principal Coordinates Analysis, and Rank Tests to Peak Tables in Metabolomics of the Gas Chromatography/Mass Spectrometry of Human Sweat. <i>Analytical Chemistry</i> , 2007, 79, 5633-5641. | 6.5 | 37 |
| 95 | A fuzzy distance metric for measuring the dissimilarity of planar chromatographic profiles with application to denaturing gradient gel electrophoresis data from human skin microbes: demonstration of an individual and gender-based fingerprint. <i>Analyst, The</i> , 2007, 132, 638. | 3.5 | 7 |
| 96 | Pattern recognition of gas chromatography mass spectrometry of human volatiles in sweat to distinguish the sex of subjects and determine potential discriminatory marker peaks. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2007, 87, 161-172. | 3.5 | 64 |
| 97 | Automated single-nucleotide polymorphism analysis using fluorescence excitation-emission spectroscopy and one-class classifiers. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 655-664. | 3.7 | 2 |
| 98 | Comparison of human axillary odour profiles obtained by gas chromatography/mass spectrometry and skin microbial profiles obtained by denaturing gradient gel electrophoresis using multivariate pattern recognition. <i>Metabolomics</i> , 2007, 3, 427-437. | 3.0 | 43 |
| 99 | Support Vector Machines: A Recent Method for Classification in Chemometrics. <i>Critical Reviews in Analytical Chemistry</i> , 2006, 36, 177-188. | 3.5 | 152 |
| 100 | A comparative study of cluster validation indices applied to genotyping data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2005, 78, 30-40. | 3.5 | 19 |
| 101 | Diagnostic Pattern Recognition on Gene-Expression Profile Data by Using One-Class Classification. <i>Journal of Chemical Information and Modeling</i> , 2005, 45, 1392-1401. | 5.4 | 15 |