

# Ian D Wilson

## List of Publications by Year in descending order

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392  
papers

31,355  
citations

7551

77  
h-index

5364

164  
g-index

411  
all docs

411  
docs citations

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times ranked

26407  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Procedures for large-scale metabolic profiling of serum and plasma using gas chromatography and liquid chromatography coupled to mass spectrometry. <i>Nature Protocols</i> , 2011, 6, 1060-1083.               | 5.5  | 2,236     |
| 2  | Understanding 'Global' Systems Biology: Metabonomics and the Continuum of Metabolism. <i>Nature Reviews Drug Discovery</i> , 2003, 2, 668-676.  | 21.5 | 975       |
| 3  | Global metabolic profiling procedures for urine using UPLC-MS. <i>Nature Protocols</i> , 2010, 5, 1005-1018.  | 5.5  | 867       |
| 4  | Gut microorganisms, mammalian metabolism and personalized health care. <i>Nature Reviews Microbiology</i> , 2005, 3, 431-438.   | 13.6 | 861       |
| 5  | Global metabolic profiling of animal and human tissues via UPLC-MS. <i>Nature Protocols</i> , 2013, 8, 17-32.   | 5.5  | 774       |
| 6  | Metabolic Phenotyping in Health and Disease. <i>Cell</i> , 2008, 134, 714-717.  | 13.5 | 711       |
| 7  | Gut microbiota modulation of chemotherapy efficacy and toxicity. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2017, 14, 356-365.   | 8.2  | 643       |
| 8  | Systemic gut microbial modulation of bile acid metabolism in host tissue compartments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4523-4530.           | 3.3  | 625       |
| 9  | High resolution proton magnetic resonance spectroscopy of biological fluids. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1989, 21, 449-501.  | 3.9  | 570       |
| 10 | Rapid and Noninvasive Metabonomic Characterization of Inflammatory Bowel Disease. <i>Journal of Proteome Research</i> , 2007, 6, 546-551.   | 1.8  | 539       |
| 11 | Guidelines and considerations for the use of system suitability and quality control samples in mass spectrometry assays applied in untargeted clinical metabolomic studies. <i>Metabolomics</i> , 2018, 14, 72. | 1.4  | 517       |
| 12 | A pragmatic and readily implemented quality control strategy for HPLC-MS and GC-MS-based metabonomic analysis. <i>Analyst</i> , 2006, 131, 1075.  | 1.7  | 498       |
| 13 | Analytical Strategies in Metabonomics. <i>Journal of Proteome Research</i> , 2007, 6, 443-458.  | 1.8  | 497       |
| 14 | Within-Day Reproducibility of an HPLC-MS-Based Method for Metabonomic Analysis: Application to Human Urine. <i>Journal of Proteome Research</i> , 2007, 6, 3291-3303.   | 1.8  | 459       |
| 15 | Liquid chromatography-mass spectrometry based global metabolite profiling: A review. <i>Analytica Chimica Acta</i> , 2012, 711, 7-16.   | 2.6  | 452       |
| 16 | Development of a Robust and Repeatable UPLC-MS Method for the Long-Term Metabolomic Study of Human Serum. <i>Analytical Chemistry</i> , 2009, 81, 1357-1364.  | 3.2  | 447       |
| 17 | Gut microbiome interactions with drug metabolism, efficacy, and toxicity. <i>Translational Research</i> , 2017, 179, 204-222.   | 2.2  | 439       |
| 18 | UPLC/MSE; a new approach for generating molecular fragment information for biomarker structure elucidation. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1989-1994.                             | 0.7  | 434       |

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|----|--|------|-----------|
| 19 | High Resolution "Ultra Performance" Liquid Chromatography Coupled to oa-TOF Mass Spectrometry as a Tool for Differential Metabolic Pathway Profiling in Functional Genomic Studies. <i>Journal of Proteome Research</i> , 2005, 4, 591-598.                    | 1.8  | 423       |
| 20 | HPLC-MS-based methods for the study of metabonomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 817, 67-76.   | 1.2  | 404       |
| 21 | Managing the challenge of chemically reactive metabolites in drug development. <i>Nature Reviews Drug Discovery</i> , 2011, 10, 292-306.   | 21.5 | 382       |
| 22 | The importance of experimental design and QC samples in large-scale and MS-driven untargeted metabolomic studies of humans. <i>Bioanalysis</i> , 2012, 4, 2249-2264.   | 0.6  | 382       |
| 23 | Predicting drug metabolism: experiment and/or computation?. <i>Nature Reviews Drug Discovery</i> , 2015, 14, 387-404.  | 21.5 | 355       |
| 24 | The challenges of modeling mammalian biocomplexity. <i>Nature Biotechnology</i> , 2004, 22, 1268-1274.   | 9.4  | 351       |
| 25 | Current practice of liquid chromatography-mass spectrometry in metabolomics and metabonomics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 87, 12-25.  | 1.4  | 348       |
| 26 | LC-MS-based methodology for global metabolite profiling in metabonomics/metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 251-260.  | 5.8  | 306       |
| 27 | An NMR-based metabonomic approach to investigate the biochemical consequences of genetic strain differences: application to the C57BL10J and <i>Alpk:ApfCD</i> mouse. <i>FEBS Letters</i> , 2000, 484, 169-174.  | 1.3  | 291       |
| 28 | Hippurate: The Natural History of a Mammalian "Microbial Cometabolite. <i>Journal of Proteome Research</i> , 2013, 12, 1527-1546.  | 1.8  | 263       |
| 29 | Summary recommendations for standardization and reporting of metabolic analyses. <i>Nature Biotechnology</i> , 2005, 23, 833-838.  | 9.4  | 261       |
| 30 | Metabonomics, dietary influences and cultural differences: a <sup>1</sup> H NMR-based study of urine samples obtained from healthy British and Swedish subjects. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 36, 841-849.                 | 1.4  | 248       |
| 31 | An Integrated Metabonomic Investigation of Acetaminophen Toxicity in the Mouse Using NMR Spectroscopy. <i>Chemical Research in Toxicology</i> , 2003, 16, 295-303.   | 1.7  | 245       |
| 32 | A <sup>1</sup> H NMR-based metabonomic study of urine and plasma samples obtained from healthy human subjects. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003, 33, 1103-1115.   | 1.4  | 230       |
| 33 | Top-Down Systems Biology Modeling of Host Metabotype~Microbiome Associations in Obese Rodents. <i>Journal of Proteome Research</i> , 2009, 8, 2361-2375.   | 1.8  | 228       |
| 34 | Evaluation of the repeatability of ultra-performance liquid chromatography-TOF-MS for global metabolic profiling of human urine samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 871, 299-305. | 1.2  | 215       |
| 35 | A rapid screening approach to metabonomics using UPLC and oa-TOF mass spectrometry: application to age, gender and diurnal variation in normal/Zucker obese rats and black, white and nude mice. <i>Analyst</i> , 2005, 130, 844.                              | 1.7  | 214       |
| 36 | Metabonomic and Microbiological Analysis of the Dynamic Effect of Vancomycin-Induced Gut Microbiota Modification in the Mouse. <i>Journal of Proteome Research</i> , 2008, 7, 3718-3728.   | 1.8  | 202       |

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|----|---|-----|-----------|
| 37 | Molecular phenotyping of a UK population: defining the human serum metabolome. <i>Metabolomics</i> , 2015, 11, 9-26.  | 1.4 | 202       |
| 38 | In Vitro Approach to Assess the Potential for Risk of Idiosyncratic Adverse Reactions Caused by Candidate Drugs. <i>Chemical Research in Toxicology</i> , 2012, 25, 1616-1632.  | 1.7 | 197       |
| 39 | Effect of diet on the urinary excretion of hippuric acid and other dietary-derived aromatics in rat. A complex interaction between diet, gut microflora and substrate specificity. <i>Xenobiotica</i> , 1998, 28, 527-537.  | 0.5 | 190       |
| 40 | Hydrophilic interaction chromatography coupled to MS for metabonomic/metabolomic studies. <i>Journal of Separation Science</i> , 2010, 33, 716-727.   | 1.3 | 180       |
| 41 | Liquid chromatography and ultra-performance liquid chromatography-mass spectrometry fingerprinting of human urine. <i>Journal of Chromatography A</i> , 2008, 1189, 314-322.  | 1.8 | 178       |
| 42 | Directly coupled HPLC-NMR and HPLC-NMR-MS in pharmaceutical research and development. <i>Biomedical Applications</i> , 2000, 748, 233-258.  | 1.7 | 177       |
| 43 | Mass spectrometry-based holistic analytical approaches for metabolite profiling in systems biology studies. <i>Mass Spectrometry Reviews</i> , 2011, 30, 884-906.   | 2.8 | 171       |
| 44 | Combined HPLC, NMR Spectroscopy, and Ion-Trap Mass Spectrometry with Application to the Detection and Characterization of Xenobiotic and Endogenous Metabolites in Human Urine. <i>Analytical Chemistry</i> , 1996, 68, 4431-4435.  | 3.2 | 169       |
| 45 | Physiological variation in metabolic phenotyping and functional genomic studies: use of orthogonal signal correction and PLS-DA. <i>FEBS Letters</i> , 2002, 530, 191-196.  | 1.3 | 169       |
| 46 | Integrated application of transcriptomics and metabonomics yields new insight into the toxicity due to paracetamol in the mouse. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 35, 93-105.   | 1.4 | 163       |
| 47 | UPLC-MS-Based Analysis of Human Plasma for Metabonomics Using Solvent Precipitation or Solid Phase Extraction. <i>Journal of Proteome Research</i> , 2009, 8, 2114-2121.  | 1.8 | 159       |
| 48 | MerTK expressing hepatic macrophages promote the resolution of inflammation in acute liver failure. <i>Gut</i> , 2018, 67, 333-347.   | 6.1 | 150       |
| 49 | Statistically Integrated Metabonomic-Proteomic Studies on a Human Prostate Cancer Xenograft Model in Mice. <i>Journal of Proteome Research</i> , 2006, 5, 2642-2655.  | 1.8 | 146       |
| 50 | Metabonomic analysis of mouse urine by liquid-chromatography-time of flight mass spectrometry (LC-TOFMS): detection of strain, diurnal and gender differences. <i>Analyst</i> , The, 2003, 128, 819.  | 1.7 | 145       |
| 51 | Systems Toxicology: Integrated Genomic, Proteomic and Metabonomic Analysis of Methapyrilene Induced Hepatotoxicity in the Rat. <i>Journal of Proteome Research</i> , 2006, 5, 1586-1601.  | 1.8 | 143       |
| 52 | Intervention among Suicidal Men: Future Directions for Telephone Crisis Support Research. <i>Frontiers in Public Health</i> , 2018, 6, 1.   | 1.3 | 143       |
| 53 | A metabonomic investigation of the biochemical effects of mercuric chloride in the rat using <sup>1</sup> H NMR and HPLC-TOF/MS: time dependant changes in the urinary profile of endogenous metabolites as a result of nephrotoxicity. <i>Analyst</i> , The, 2004, 129, 535. | 1.7 | 138       |
| 54 | Direct coupling of chromatographic separations to NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 1996, 29, 1-49.  | 3.9 | 137       |

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|----|--|-----|-----------|
| 55 | Pharmacometabonomics as an effector for personalized medicine. <i>Pharmacogenomics</i> , 2011, 12, 103-111.  | 0.6 | 136       |
| 56 | High-performance liquid chromatography coupled to high-field proton nuclear magnetic resonance spectroscopy: application to the urinary metabolites of ibuprofen. <i>Analytical Chemistry</i> , 1993, 65, 327-330.                               | 3.2 | 135       |
| 57 | Metabonomics with <sup>1</sup> H-NMR spectroscopy and liquid chromatography-mass spectrometry applied to the investigation of metabolic changes caused by gentamicin-induced nephrotoxicity in the rat. <i>Biomarkers</i> , 2005, 10, 173-187.   | 0.9 | 135       |
| 58 | HILIC-UPLC-MS for Exploratory Urinary Metabolic Profiling in Toxicological Studies. <i>Analytical Chemistry</i> , 2011, 83, 382-390.   | 3.2 | 135       |
| 59 | Cyclosporin A-induced changes in endogenous metabolites in rat urine: a metabonomic investigation using high field NMR spectroscopy, HPLC-TOF/MS and chemometrics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 35, 599-608. | 1.4 | 133       |
| 60 | High-Performance Liquid Chromatography On-Line Coupled to High-Field NMR and Mass Spectrometry for Structure Elucidation of Constituents of <i>Hypericum perforatum</i> L.. <i>Analytical Chemistry</i> , 1999, 71, 5235-5241.                   | 3.2 | 130       |
| 61 | Hyphenation and hypernation. <i>Journal of Chromatography A</i> , 2003, 1000, 325-356.   | 1.8 | 124       |
| 62 | Hydrophilic interaction and reversed-phase ultra-performance liquid chromatography TOF-MS for metabonomic analysis of Zucker rat urine. <i>Journal of Separation Science</i> , 2008, 31, 1598-1608.  | 1.3 | 121       |
| 63 | Targeted inhibition of gut bacterial $\beta$ -glucuronidase activity enhances anticancer drug efficacy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7374-7381.                           | 3.3 | 121       |
| 64 | Detection of Urinary Drug Metabolite (Xenometabolome) Signatures in Molecular Epidemiology Studies via Statistical Total Correlation (NMR) Spectroscopy. <i>Analytical Chemistry</i> , 2007, 79, 2629-2640.                                      | 3.2 | 118       |
| 65 | The state of the art in thin-layer chromatography-mass spectrometry: a critical appraisal. <i>Journal of Chromatography A</i> , 1999, 856, 429-442.  | 1.8 | 116       |
| 66 | Acyl Glucuronides: Biological Activity, Chemical Reactivity, and Chemical Synthesis. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6931-6945.  | 2.9 | 116       |
| 67 | Evaluation of a Molecular-imprinted Polymer for use in the Solid Phase Extraction of Propranolol From Biological Fluids. <i>Analytical Communications</i> , 1997, 34, 45-47.   | 2.2 | 114       |
| 68 | Variation in Antibiotic-Induced Microbial Recolonization Impacts on the Host Metabolic Phenotypes of Rats. <i>Journal of Proteome Research</i> , 2011, 10, 3590-3603.  | 1.8 | 114       |
| 69 | A combined <sup>1</sup> H NMR and HPLC-MS-based metabonomic study of urine from obese (fa/fa) Zucker and normal Wistar-derived rats. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 38, 465-471.                               | 1.4 | 109       |
| 70 | Untargeted LC/MS-based metabolic phenotyping (metabonomics/metabolomics): The state of the art. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1117, 136-147.                           | 1.2 | 106       |
| 71 | The Role of Gut Microbiota in Drug Response. <i>Current Pharmaceutical Design</i> , 2009, 15, 1519-1523.   | 0.9 | 105       |
| 72 | Directly Coupled HPLC-NMR and Its Application to Drug Metabolism. <i>Drug Metabolism Reviews</i> , 1997, 29, 705-746.  | 1.5 | 104       |

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|----|--|-----|-----------|
| 73 | An overview of fecal sample preparation for global metabolic profiling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 113, 137-150.   | 1.4 | 104       |
| 74 | Application of NMR-based metabolomics to the investigation of salt stress in maize ( <i>Zea mays</i> ). <i>Phytochemical Analysis</i> , 2011, 22, 214-224.   | 1.2 | 100       |
| 75 | LC-MS-based holistic metabolic profiling. Problems, limitations, advantages, and future perspectives. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 966, 1-6.  | 1.2 | 88        |
| 76 | Directly Coupled High-Performance Liquid Chromatography and Nuclear Magnetic Resonance Spectroscopic with Chemometric Studies on Metabolic Variation in Sprague-Dawley Rats. <i>Analytical Biochemistry</i> , 2001, 291, 245-252.  | 1.1 | 84        |
| 77 | Drugs, bugs, and personalized medicine: Pharmacometabonomics enters the ring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14187-14188.   | 3.3 | 83        |
| 78 | Meta-analysis of clinical metabolic profiling studies in cancer: challenges and opportunities. <i>EMBO Molecular Medicine</i> , 2016, 8, 1134-1142.  | 3.3 | 83        |
| 79 | Protocol for quality control in metabolic profiling of biological fluids by U(H)PLC-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1008, 15-25.   | 1.2 | 78        |
| 80 | High-Speed Quantitative UPLC-MS Analysis of Multiple Amines in Human Plasma and Serum via Precolumn Derivatization with 6-Aminoquinolyl-N-hydroxysuccinimidyl Carbamate: Application to Acetaminophen-Induced Liver Failure. <i>Analytical Chemistry</i> , 2017, 89, 2478-2487.                              | 3.2 | 78        |
| 81 | Generation of Ultrahigh Peak Capacity LC Separations via Elevated Temperatures and High Linear Mobile-Phase Velocities. <i>Analytical Chemistry</i> , 2006, 78, 7278-7283.   | 3.2 | 74        |
| 82 | <sup>1</sup> H NMR and UPLC-MSE Statistical Heterospectroscopy: Characterization of Drug Metabolites (Xenometabolome) in Epidemiological Studies. <i>Analytical Chemistry</i> , 2008, 80, 6835-6844.   | 3.2 | 74        |
| 83 | Targeted profiling of polar intracellular metabolites using ion-pair-high performance liquid chromatography and -ultra high performance liquid chromatography coupled to tandem mass spectrometry: Applications to serum, urine and tissue extracts. <i>Journal of Chromatography A</i> , 2014, 1349, 60-68. | 1.8 | 74        |
| 84 | Superheated Heavy Water as the Eluent for HPLC-NMR and HPLC-NMR-MS of Model Drugs. <i>Analytical Chemistry</i> , 1999, 71, 4493-4497.  | 3.2 | 73        |
| 85 | Hyphenated MS-based targeted approaches in metabolomics. <i>Analyst, The</i> , 2017, 142, 3079-3100.   | 1.7 | 72        |
| 86 | Ultrahigh-Performance Liquid Chromatography Tandem Mass Spectrometry with Electrospray Ionization Quantification of Tryptophan Metabolites and Markers of Gut Health in Serum and Plasma—Application to Clinical and Epidemiology Cohorts. <i>Analytical Chemistry</i> , 2019, 91, 5207-5216.                | 3.2 | 72        |
| 87 | Solid-phase extraction chromatography and nuclear magnetic resonance spectrometry for the identification and isolation of drug metabolites in urine. <i>Analytical Chemistry</i> , 1987, 59, 2830-2832.  | 3.2 | 71        |
| 88 | A QC approach to the determination of day-to-day reproducibility and robustness of LC-MS methods for global metabolite profiling in metabonomics/metabolomics. <i>Bioanalysis</i> , 2012, 4, 2239-2247.  | 0.6 | 71        |
| 89 | Paracetamol metabolism, hepatotoxicity, biomarkers and therapeutic interventions: a perspective. <i>Toxicology Research</i> , 2018, 7, 347-357.  | 0.9 | 70        |
| 90 | Ethyl glucoside in human urine following dietary exposure: detection by <sup>1</sup> H NMR spectroscopy as a result of metabonomic screening of humans. <i>Analyst, The</i> , 2004, 129, 259.  | 1.7 | 69        |

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|-----|---|-----|-----------|
| 91  | Directly coupled liquid chromatography with inductively coupled plasma mass spectrometry and orthogonal acceleration time-of-flight mass spectrometry for the identification of drug metabolites in urine: application to diclofenac using chlorine and sulfur detection. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 2377-2384. | 0.7 | 67        |
| 92  | High temperature-ultra performance liquid chromatography-mass spectrometry for the metabonomic analysis of Zucker rat urine. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 871, 279-287.  | 1.2 | 66        |
| 93  | The detection of phenotypic differences in the metabolic plasma profile of three strains of Zucker rats at 20 weeks of age using ultra-performance liquid chromatography/orthogonal acceleration time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 2800-2806.  | 0.7 | 64        |
| 94  | Application of Ultra Performance Liquid Chromatography-Mass Spectrometry to Profiling Rat and Dog Bile. <i>Journal of Proteome Research</i> , 2009, 8, 2495-2500.   | 1.8 | 62        |
| 95  | <sup>19</sup> F-NMR and directly coupled HPLC-NMR-MS investigations into the metabolism of 2-bromo-4-trifluoromethylaniline in rat: a urinary excretion balance study without the use of radiolabelling. <i>Xenobiotica</i> , 1998, 28, 373-388.  | 0.5 | 61        |
| 96  | A comparison between genetically humanized and chimeric liver humanized mouse models for studies in drug metabolism and toxicity. <i>Drug Discovery Today</i> , 2016, 21, 250-263.  | 3.2 | 61        |
| 97  | The metabolism of ingested and injected [ <sup>3</sup> H]ecdysone by final instar larvae of <i>Heliiothis armigera</i> . <i>Physiological Entomology</i> , 1987, 12, 321-330.   | 0.6 | 60        |
| 98  | Analysis of polar urinary metabolites for metabolic phenotyping using supercritical fluid chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1449, 141-155.   | 1.8 | 60        |
| 99  | Coupling of HPLC with <sup>19</sup> F- and <sup>1</sup> H-NMR spectroscopy to investigate the human urinary excretion of flurbiprofen metabolites. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1993, 11, 1009-1015.  | 1.4 | 59        |
| 100 | High performance liquid chromatography coupled to nuclear magnetic resonance spectroscopy and mass spectrometry applied to plant products: Identification of ecdysteroids from <i>Silene otites</i> . <i>Chromatographia</i> , 1999, 49, 374-378.   | 0.7 | 59        |
| 101 | Investigation of a range of stationary phases for the separation of model drugs by HPLC using superheated water as the mobile phase. <i>Chromatographia</i> , 2000, 52, S28-S34.  | 0.7 | 59        |
| 102 | Gut microbiome modulates the toxicity of hydrazine: a metabonomic study. <i>Molecular BioSystems</i> , 2009, 5, 351.  | 2.9 | 59        |
| 103 | Metabolite Profiles from Dried Biofluid Spots for Metabonomic Studies using UPLC Combined with oaToF-MS. <i>Journal of Proteome Research</i> , 2010, 9, 3328-3334.  | 1.8 | 59        |
| 104 | Metabonomic Investigation of Liver Profiles of Nonpolar Metabolites Obtained from Alcohol-Dosed Rats and Mice Using High Mass Accuracy MS <sup>n</sup> Analysis. <i>Journal of Proteome Research</i> , 2011, 10, 705-713.   | 1.8 | 59        |
| 105 | Evaluation of liquid chromatography coupled with high-field <sup>1</sup> H NMR spectroscopy for drug metabolite detection and characterization: The identification of paracetamol metabolites in urine and bile. <i>NMR in Biomedicine</i> , 1994, 7, 295-303.  | 1.6 | 58        |
| 106 | HPLC Analysis of Ecdysteroids in Plant Extracts Using Superheated Deuterium Oxide with Multiple On-Line Spectroscopic Analysis (UV, IR, <sup>1</sup> H NMR, and MS). <i>Analytical Chemistry</i> , 2002, 74, 288-294.   | 3.2 | 58        |
| 107 | Does the Mass Spectrometer Define the Marker? A Comparison of Global Metabolite Profiling Data Generated Simultaneously via UPLC-MS on Two Different Mass Spectrometers. <i>Analytical Chemistry</i> , 2010, 82, 8226-8234.   | 3.2 | 58        |
| 108 | Molecular imprints as sorbents for solid phase extraction: potential and applications. <i>Analytical Communications</i> , 1998, 35, 13-14.  | 2.2 | 57        |



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|-----|---|-----|-----------|
| 109 | Development of a rapid profiling method for the analysis of polar analytes in urine using HILIC-MS and ion mobility enabled HILIC-MS. <i>Metabolomics</i> , 2019, 15, 17.   | 1.4 | 57        |
| 110 | The application of high performance liquid chromatography, coupled to nuclear magnetic resonance spectroscopy and mass spectrometry (HPLC-NMR-MS), to the characterisation of ibuprofen metabolites from human urine. <i>Chromatographia</i> , 1998, 47, 264-270.   | 0.7 | 56        |
| 111 | Induction of 5-oxoprolinuria in the rat following chronic feeding with N-acetyl 4-aminophenol (paracetamol). <i>Biochemical Pharmacology</i> , 1993, 46, 953-957.   | 2.0 | 55        |
| 112 | Metabolic Phenotyping of Nude and Normal (Alpk:ApfCD, C57BL10J) Mice. <i>Journal of Proteome Research</i> , 2006, 5, 378-384.   | 1.8 | 55        |
| 113 | High resolution nuclear magnetic resonance spectroscopy of biological samples as an aid to drug development. , 1987, 31, 427-479.   |     | 54        |
| 114 | Directly coupled CZE-NMR and CEC-NMR spectroscopy for metabolite analysis: paracetamol metabolites in human urine. <i>Analyst</i> , The, 1998, 123, 2835-2837.  | 1.7 | 53        |
| 115 | Multiple hyphenation of liquid chromatography with nuclear magnetic resonance spectroscopy, mass spectrometry and beyond. <i>Journal of Chromatography A</i> , 2000, 892, 315-327.  | 1.8 | 53        |
| 116 | The application of microbore UPLC/oa-TOF-MS and <sup>1</sup> H NMR spectroscopy to the metabonomic analysis of rat urine following the intravenous administration of pravastatin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 44, 845-852.   | 1.4 | 53        |
| 117 | Heteronuclear <sup>19</sup> F- <sup>1</sup> H Statistical Total Correlation Spectroscopy as a Tool in Drug Metabolism: a Study of Flucloxacillin Biotransformation. <i>Analytical Chemistry</i> , 2008, 80, 1073-1079.  | 3.2 | 53        |
| 118 | Advances in liquid chromatography coupled to mass spectrometry for metabolic phenotyping. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 61, 181-191.   | 5.8 | 53        |
| 119 | Ion mobility spectrometry combined with ultra performance liquid chromatography/mass spectrometry for metabolic phenotyping of urine: Effects of column length, gradient duration and ion mobility spectrometry on metabolite detection. <i>Analytica Chimica Acta</i> , 2017, 982, 1-8.  | 2.6 | 53        |
| 120 | On-flow identification of metabolites of paracetamol from human urine using directly coupled CZE-NMR and CEC-NMR spectroscopy. <i>Analytical Communications</i> , 1998, 35, 213-215.  | 2.2 | 52        |
| 121 | Comparison of extraction of a $\beta$ -blocker from plasma onto a molecularly imprinted polymer with liquid-liquid extraction and solid phase extraction methods. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 35, 1231-1239.   | 1.4 | 52        |
| 122 | Metabolic profiling of human urine by CE-MS using a positively charged capillary coating and comparison with UPLC-MS. <i>Molecular BioSystems</i> , 2011, 7, 194-199.   | 2.9 | 52        |
| 123 | Diclofenac metabolism in the mouse: Novel <i>in vivo</i> metabolites identified by high performance liquid chromatography coupled to linear ion trap mass spectrometry. <i>Xenobiotica</i> , 2012, 42, 179-194.   | 0.5 | 52        |
| 124 | Analysis of a ginger extract by high-performance liquid chromatography coupled to nuclear magnetic resonance spectroscopy using superheated deuterium oxide as the mobile phase. <i>Journal of Chromatography A</i> , 2003, 991, 143-150.   | 1.8 | 51        |
| 125 | High-Performance Liquid Chromatography Linked to Inductively Coupled Plasma Mass Spectrometry and Orthogonal Acceleration Time-of-Flight Mass Spectrometry for the Simultaneous Detection and Identification of Metabolites of 2-Bromo-4- trifluoromethyl-[ <sup>13</sup> C]-acetanilide in Rat Urine. <i>Analytical Chemistry</i> , 2001, 73, 1491-1494. | 3.2 | 50        |
| 126 | Spectroscopic characterisation and identification of ecdysteroids using high-performance liquid chromatography combined with on-line UV-diode array, FT-infrared and <sup>1</sup> H-nuclear magnetic resonance spectroscopy and time of flight mass spectrometry. <i>Journal of Chromatography A</i> , 2001, 910, 237-246.                                | 1.8 | 50        |



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