

# Ian D Wilson

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

391  
papers

25,512  
citations

74  
h-index

150  
g-index

411  
ext. papers

28,661  
ext. citations

5.3  
avg, IF

7.06  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 391 | Procedures for large-scale metabolic profiling of serum and plasma using gas chromatography and liquid chromatography coupled to mass spectrometry. <i>Nature Protocols</i> , <b>2011</b> , 6, 1060-83   | 18.8 | 1527      |
| 390 | Opinion: understanding 'global' systems biology: metabonomics and the continuum of metabolism. <i>Nature Reviews Drug Discovery</i> , <b>2003</b> , 2, 668-76  | 64.1 | 838       |
| 389 | Gut microorganisms, mammalian metabolism and personalized health care. <i>Nature Reviews Microbiology</i> , <b>2005</b> , 3, 431-8   | 22.2 | 717       |
| 388 | Global metabolic profiling procedures for urine using UPLC-MS. <i>Nature Protocols</i> , <b>2010</b> , 5, 1005-18  | 18.8 | 676       |
| 387 | Metabolic phenotyping in health and disease. <i>Cell</i> , <b>2008</b> , 134, 714-7  | 56.2 | 568       |
| 386 | High resolution proton magnetic resonance spectroscopy of biological fluids. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>1989</b> , 21, 449-501  | 10.4 | 516       |
| 385 | 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> , <b>2011</b> , 108 Suppl 1, 4523-30 <sup>5</sup>                  | 11.5 | 495       |
| 384 | Analytical strategies in metabonomics. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 443-58   | 5.6  | 459       |
| 383 | Rapid and noninvasive metabonomic characterization of inflammatory bowel disease. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 546-51  | 5.6  | 456       |
| 382 | Global metabolic profiling of animal and human tissues via UPLC-MS. <i>Nature Protocols</i> , <b>2013</b> , 8, 17-32   | 18.8 | 405       |
| 381 | Within-day reproducibility of an HPLC-MS-based method for metabonomic analysis: application to human urine. <i>Journal of Proteome Research</i> , <b>2007</b> , 6, 3291-303  | 5.6  | 402       |
| 380 | 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> , <b>2005</b> , 4, 591-8 | 5.6  | 398       |
| 379 | A pragmatic and readily implemented quality control strategy for HPLC-MS and GC-MS-based metabonomic analysis. <i>Analyst, The</i> , <b>2006</b> , 131, 1075-8   | 5    | 398       |
| 378 | UPLC/MS(E); a new approach for generating molecular fragment information for biomarker structure elucidation. <i>Rapid Communications in Mass Spectrometry</i> , <b>2006</b> , 20, 1989-94   | 2.2  | 393       |
| 377 | Gut microbiota modulation of chemotherapy efficacy and toxicity. <i>Nature Reviews Gastroenterology and Hepatology</i> , <b>2017</b> , 14, 356-365   | 24.2 | 382       |
| 376 | Liquid chromatography-mass spectrometry based global metabolite profiling: a review. <i>Analytica Chimica Acta</i> , <b>2012</b> , 711, 7-16   | 6.6  | 372       |
| 375 | HPLC-MS-based methods for the study of metabonomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2005</b> , 817, 67-76  | 3.2  | 366       |

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|-----|---|------|-----|
| 374 | Managing the challenge of chemically reactive metabolites in drug development. <i>Nature Reviews Drug Discovery</i> , <b>2011</b> , 10, 292-306   | 64.1 | 348 |
| 373 | The importance of experimental design and QC samples in large-scale and MS-driven untargeted metabolomic studies of humans. <i>Bioanalysis</i> , <b>2012</b> , 4, 2249-64   | 2.1  | 321 |
| 372 | The challenges of modeling mammalian biocomplexity. <i>Nature Biotechnology</i> , <b>2004</b> , 22, 1268-74   | 44.5 | 321 |
| 371 | Development of a robust and repeatable UPLC-MS method for the long-term metabolomic study of human serum. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 1357-64   | 7.8  | 306 |
| 370 | 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> , <b>2018</b> , 14, 72  | 4.7  | 303 |
| 369 | Gut microbiome interactions with drug metabolism, efficacy, and toxicity. <i>Translational Research</i> , <b>2017</b> , 179, 204-222  | 11   | 281 |
| 368 | Current practice of liquid chromatography-mass spectrometry in metabolomics and metabonomics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2014</b> , 87, 12-25  | 3.5  | 278 |
| 367 | LC-MS-based methodology for global metabolite profiling in metabonomics/metabolomics. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2008</b> , 27, 251-260  | 14.6 | 266 |
| 366 | An NMR-based metabonomic approach to investigate the biochemical consequences of genetic strain differences: application to the C57BL10J and Alpk:ApfCD mouse. <i>FEBS Letters</i> , <b>2000</b> , 484, 169-74  | 3.8  | 259 |
| 365 | Predicting drug metabolism: experiment and/or computation?. <i>Nature Reviews Drug Discovery</i> , <b>2015</b> , 14, 387-404  | 64.1 | 255 |
| 364 | 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> , <b>2004</b> , 36, 841-9                   | 3.5  | 235 |
| 363 | Summary recommendations for standardization and reporting of metabolic analyses. <i>Nature Biotechnology</i> , <b>2005</b> , 23, 833-8  | 44.5 | 233 |
| 362 | An integrated metabonomic investigation of acetaminophen toxicity in the mouse using NMR spectroscopy. <i>Chemical Research in Toxicology</i> , <b>2003</b> , 16, 295-303   | 4    | 224 |
| 361 | 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> , <b>2003</b> , 33, 1103-15   | 3.5  | 213 |
| 360 | 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> , <b>2008</b> , 871, 299-305 | 3.2  | 198 |
| 359 | Top-down systems biology modeling of host metabolite-microbiome associations in obese rodents. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 2361-75   | 5.6  | 197 |
| 358 | Hippurate: the natural history of a mammalian-microbial cometabolite. <i>Journal of Proteome Research</i> , <b>2013</b> , 12, 1527-46   | 5.6  | 196 |
| 357 | 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> , <b>2005</b> , 130, 844-9                            | 5    | 195 |

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| 356 | Metabonomic and microbiological analysis of the dynamic effect of vancomycin-induced gut microbiota modification in the mouse. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 3718-28   | 5.6  | 185 |
| 355 | 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> , <b>1998</b> , 28, 527-37  |      | 183 |
| 354 | In vitro approach to assess the potential for risk of idiosyncratic adverse reactions caused by candidate drugs. <i>Chemical Research in Toxicology</i> , <b>2012</b> , 25, 1616-32   | 4    | 172 |
| 353 | Molecular phenotyping of a UK population: defining the human serum metabolome. <i>Metabolomics</i> , <b>2015</b> , 11, 9-26   | 4.7  | 167 |
| 352 | Hydrophilic interaction chromatography coupled to MS for metabonomic/metabolomic studies. <i>Journal of Separation Science</i> , <b>2010</b> , 33, 716-27   | 3.4  | 161 |
| 351 | Physiological variation in metabolic phenotyping and functional genomic studies: use of orthogonal signal correction and PLS-DA. <i>FEBS Letters</i> , <b>2002</b> , 530, 191-6   | 3.8  | 157 |
| 350 | Liquid chromatography and ultra-performance liquid chromatography-mass spectrometry fingerprinting of human urine: sample stability under different handling and storage conditions for metabonomics studies. <i>Journal of Chromatography A</i> , <b>2008</b> , 1189, 314-22           | 4.5  | 156 |
| 349 | Directly coupled HPLC-NMR and HPLC-NMR-MS in pharmaceutical research and development. <i>Biomedical Applications</i> , <b>2000</b> , 748, 233-58  |      | 154 |
| 348 | 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> , <b>2004</b> , 35, 93-105  | 3.5  | 151 |
| 347 | UPLC-MS-based analysis of human plasma for metabonomics using solvent precipitation or solid phase extraction. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 2114-21   | 5.6  | 150 |
| 346 | 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> , <b>1996</b> , 68, 4431-5  | 7.8  | 149 |
| 345 | Mass spectrometry-based holistic analytical approaches for metabolite profiling in systems biology studies. <i>Mass Spectrometry Reviews</i> , <b>2011</b> , 30, 884-906  | 11   | 147 |
| 344 | Statistically integrated metabonomic-proteomic studies on a human prostate cancer xenograft model in mice. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 2642-55   | 5.6  | 136 |
| 343 | Metabonomic analysis of mouse urine by liquid-chromatography-time of flight mass spectrometry (LC-TOFMS): detection of strain, diurnal and gender differences. <i>Analyst, The</i> , <b>2003</b> , 128, 819-23  | 5    | 135 |
| 342 | Systems toxicology: integrated genomic, proteomic and metabonomic analysis of methapyrilene induced hepatotoxicity in the rat. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 1586-601  | 5.6  | 132 |
| 341 | HILIC-UPLC-MS for exploratory urinary metabolic profiling in toxicological studies. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 382-90  | 7.8  | 128 |
| 340 | A metabonomic investigation of the biochemical effects of mercuric chloride in the rat using <sup>1</sup> H NMR and HPLC-TOF/MS: time dependent changes in the urinary profile of endogenous metabolites as a result of nephrotoxicity. <i>Analyst, The</i> , <b>2004</b> , 129, 535-41 | 5    | 128 |
| 339 | Direct coupling of chromatographic separations to NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , <b>1996</b> , 29, 1-49   | 10.4 | 126 |

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| 338 | Cyclosporin A-induced changes in endogenous metabolites in rat urine: a metabonomic investigation using high field <sup>1</sup> H NMR spectroscopy, HPLC-TOF/MS and chemometrics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2004</b> , 35, 599-608 | 3.5  | 123 |
| 337 | 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> , <b>2005</b> , 10, 173-87                   | 2.6  | 123 |
| 336 | Pharmacometabonomics as an effector for personalized medicine. <i>Pharmacogenomics</i> , <b>2011</b> , 12, 103-11  | 2.6  | 118 |
| 335 | High-Performance Liquid Chromatography On-Line Coupled to High-Field NMR and Mass Spectrometry for Structure Elucidation of Constituents of Hypericum perforatum L.. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 5235-5241   | 7.8  | 117 |
| 334 | High-performance liquid chromatography coupled to high-field proton nuclear magnetic resonance spectroscopy: application to the urinary metabolites of ibuprofen. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 327-30   | 7.8  | 117 |
| 333 | Hydrophilic interaction and reversed-phase ultra-performance liquid chromatography TOF-MS for metabonomic analysis of Zucker rat urine. <i>Journal of Separation Science</i> , <b>2008</b> , 31, 1598-608  | 3.4  | 114 |
| 332 | Detection of urinary drug metabolite (xenometabolome) signatures in molecular epidemiology studies via statistical total correlation (NMR) spectroscopy. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 2629-40   | 7.8  | 108 |
| 331 | Hyphenation and hypernation the practice and prospects of multiple hyphenation. <i>Journal of Chromatography A</i> , <b>2003</b> , 1000, 325-56  | 4.5  | 108 |
| 330 | Acyl glucuronides: biological activity, chemical reactivity, and chemical synthesis. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 6931-45   | 8.3  | 105 |
| 329 | Variation in antibiotic-induced microbial recolonization impacts on the host metabolic phenotypes of rats. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 3590-603  | 5.6  | 101 |
| 328 | 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> , <b>2005</b> , 38, 465-71  | 3.5  | 101 |
| 327 | Intervention among Suicidal Men: Future Directions for Telephone Crisis Support Research. <i>Frontiers in Public Health</i> , <b>2018</b> , 6, 1   | 6    | 97  |
| 326 | The state of the art in thin-layer chromatography-mass spectrometry: a critical appraisal. <i>Journal of Chromatography A</i> , <b>1999</b> , 856, 429-42  | 4.5  | 97  |
| 325 | Directly coupled HPLC-NMR and its application to drug metabolism. <i>Drug Metabolism Reviews</i> , <b>1997</b> , 29, 705-46  | 7    | 94  |
| 324 | Evaluation of a Molecular-imprinted Polymer for use in the SolidPhase Extraction of Propranolol From Biological Fluids. <i>Analytical Communications</i> , <b>1997</b> , 34, 45-47   |      | 89  |
| 323 | MerTK expressing hepatic macrophages promote the resolution of inflammation in acute liver failure. <i>Gut</i> , <b>2018</b> , 67, 333-347   | 19.2 | 88  |
| 322 | The role of gut microbiota in drug response. <i>Current Pharmaceutical Design</i> , <b>2009</b> , 15, 1519-23  | 3.3  | 86  |
| 321 | An overview of fecal sample preparation for global metabolic profiling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2015</b> , 113, 137-50   | 3.5  | 83  |

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| 320 | 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> , <b>2001</b> , 291, 245-52   | 3.1  | 81 |
| 319 | Application of NMR-based metabolomics to the investigation of salt stress in maize ( <i>Zea mays</i> ). <i>Phytochemical Analysis</i> , <b>2011</b> , 22, 214-24  | 3.4  | 78 |
| 318 | Drugs, bugs, and personalized medicine: pharmacometabonomics enters the ring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 14187-8   | 11.5 | 74 |
| 317 | 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> , <b>2014</b> , 966, 1-6  | 3.2  | 71 |
| 316 | <sup>1</sup> H NMR and UPLC-MS(E) statistical heterospectroscopy: characterization of drug metabolites (xenometabolome) in epidemiological studies. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 6835-44   | 7.8  | 70 |
| 315 | Generation of ultrahigh peak capacity LC separations via elevated temperatures and high linear mobile-phase velocities. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 7278-83   | 7.8  | 70 |
| 314 | Superheated Heavy Water as the Eluent for HPLC-NMR and HPLC-NMR-MS of Model Drugs. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 4493-4497  | 7.8  | 68 |
| 313 | Solid-phase extraction chromatography and nuclear magnetic resonance spectrometry for the identification and isolation of drug metabolites in urine. <i>Analytical Chemistry</i> , <b>1987</b> , 59, 2830-2   | 7.8  | 65 |
| 312 | 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> , <b>2019</b> , 1117, 136-147   | 3.2  | 63 |
| 311 | 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> , <b>2006</b> , 20, 2800-6 | 2.2  | 62 |
| 310 | 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> , <b>2008</b> , 871, 279-87  | 3.2  | 61 |
| 309 | 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> , <b>2006</b> , 20, 2800-6  | 2.2  | 61 |
| 308 | 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> , <b>2016</b> , 1008, 15-25   | 3.2  | 60 |
| 307 | 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> , <b>2012</b> , 4, 2239-47  | 2.1  | 60 |
| 306 | Application of ultra performance liquid chromatography-mass spectrometry to profiling rat and dog bile. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 2495-500   | 5.6  | 60 |
| 305 | 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</i> , <b>2004</b> , 129, 259-64  | 5    | 59 |
| 304 | 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> , <b>2014</b> , 1349, 60-8                                    | 4.5  | 57 |
| 303 | Gut microbiome modulates the toxicity of hydrazine: a metabonomic study. <i>Molecular BioSystems</i> , <b>2009</b> , 5, 351-5   |      | 57 |

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|-----|--|------|----|
| 302 | Meta-analysis of clinical metabolic profiling studies in cancer: challenges and opportunities. <i>EMBO Molecular Medicine</i> , <b>2016</b> , 8, 1134-1142   | 12   | 57 |
| 301 | 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> , <b>2000</b> , 52, S28-S34  | 2.1  | 56 |
| 300 | Hyphenated MS-based targeted approaches in metabolomics. <i>Analyst, The</i> , <b>2017</b> , 142, 3079-3100  | 5    | 55 |
| 299 | 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> , <b>1999</b> , 49, 374-378                               | 2.1  | 55 |
| 298 | 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> , <b>2020</b> , 117, 7374-7381  | 11.5 | 54 |
| 297 | Metabolite profiles from dried biofluid spots for metabolomic studies using UPLC combined with oaToF-MS. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 3328-34  | 5.6  | 53 |
| 296 | Coupling of HPLC with $^{19}\text{F}$ - and $^1\text{H}$ -NMR spectroscopy to investigate the human urinary excretion of flurbiprofen metabolites. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>1993</b> , 11, 1009-15  | 3.5  | 53 |
| 295 | Metabolomic investigation of liver profiles of nonpolar metabolites obtained from alcohol-dosed rats and mice using high mass accuracy MSn analysis. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 705-13  | 5.6  | 52 |
| 294 | HPLC analysis of ecdysteroids in plant extracts using superheated deuterium oxide with multiple on-line spectroscopic analysis (UV, IR, $^1\text{H}$ NMR, and MS). <i>Analytical Chemistry</i> , <b>2002</b> , 74, 288-94  | 7.8  | 52 |
| 293 | Induction of 5-oxoprolinuria in the rat following chronic feeding with N-acetyl 4-aminophenol (paracetamol). <i>Biochemical Pharmacology</i> , <b>1993</b> , 46, 953-7   | 6    | 52 |
| 292 | Analysis of polar urinary metabolites for metabolic phenotyping using supercritical fluid chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , <b>2016</b> , 1449, 141-55  | 4.5  | 52 |
| 291 | 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> , <b>2017</b> , 89, 2478-2487 | 7.8  | 51 |
| 290 | 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> , <b>2010</b> , 82, 8226-34   | 7.8  | 51 |
| 289 | $^{19}\text{F}$ -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> , <b>1998</b> , 28, 373-88                                | 2    | 51 |
| 288 | Metabolic phenotyping of nude and normal (Alpk:ApfCD, C57BL10J) mice. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 378-84  | 5.6  | 51 |
| 287 | Evaluation of liquid chromatography coupled with high-field $^1\text{H}$ NMR spectroscopy for drug metabolite detection and characterization: the identification of paracetamol metabolites in urine and bile. <i>NMR in Biomedicine</i> , <b>1994</b> , 7, 295-303                    | 4.4  | 51 |
| 286 | High resolution nuclear magnetic resonance spectroscopy of biological samples as an aid to drug development. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , <b>1987</b> , 31, 427-79                                 |      | 51 |
| 285 | A comparison between genetically humanized and chimeric liver humanized mouse models for studies in drug metabolism and toxicity. <i>Drug Discovery Today</i> , <b>2016</b> , 21, 250-63   | 8.8  | 50 |

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|-----|---|------|----|
| 284 | Metabolic profiling of human urine by CE-MS using a positively charged capillary coating and comparison with UPLC-MS. <i>Molecular BioSystems</i> , <b>2011</b> , 7, 194-9  |      | 50 |
| 283 | Heteronuclear <sup>19</sup> F- <sup>1</sup> H statistical total correlation spectroscopy as a tool in drug metabolism: study of flucloxacillin biotransformation. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 1073-9  | 7.8  | 50 |
| 282 | 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> , <b>1998</b> , 47, 264-270  | 2.1  | 49 |
| 281 | The metabolism of ingested and injected [ <sup>3</sup> H]ecdysone by final instar larvae of <i>Heliothis armigera</i> . <i>Physiological Entomology</i> , <b>1987</b> , 12, 321-330   | 1.9  | 49 |
| 280 | Molecular imprints as sorbents for solid phase extraction: potential and applications. <i>Analytical Communications</i> , <b>1998</b> , 35, 13-14   |      | 47 |
| 279 | 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> , <b>2007</b> , 44, 845-52   | 3.5  | 47 |
| 278 | Multiple hyphenation of liquid chromatography with nuclear magnetic resonance spectroscopy, mass spectrometry and beyond. <i>Journal of Chromatography A</i> , <b>2000</b> , 892, 315-27  | 4.5  | 47 |
| 277 | 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> , <b>2017</b> , 982, 1-8                                   | 6.6  | 46 |
| 276 | An approach to enhancing coverage of the urinary metabonome using liquid chromatography-ion mobility-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2008</b> , 871, 357-61   | 3.2  | 46 |
| 275 | 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. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1491-4                  | 7.8  | 46 |
| 274 | On-flow identification of metabolites of paracetamol from human urine using directly coupled CZE-NMR and CEC-NMR spectroscopy. <i>Analytical Communications</i> , <b>1998</b> , 35, 213-215   |      | 45 |
| 273 | 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> , <b>2004</b> , 35, 1231-9   | 3.5  | 45 |
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| 271 | Advances in liquid chromatography coupled to mass spectrometry for metabolic phenotyping. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2014</b> , 61, 181-191  | 14.6 | 43 |
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