

Kevin P Bateman

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.

78
papers

2,992
citations

28
h-index

53
g-index

80
ext. papers

3,255
ext. citations

4.3
avg, IF

4.71
L-index

#	Paper	IF	Citations
78	Organic chemistry. Nanomole-scale high-throughput chemistry for the synthesis of complex molecules. <i>Science</i> , 2015 , 347, 49-53	33.3	332
77	MSE with mass defect filtering for in vitro and in vivo metabolite identification. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 1485-96	2.2	228
76	Carrageenan-induced paw edema in rat elicits a predominant prostaglandin E2 (PGE2) response in the central nervous system associated with the induction of microsomal PGE2 synthase-1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 24866-72	5.4	188
75	Discovery of a potent and selective prostaglandin D2 receptor antagonist, [(3R)-4-(4-chloro-benzyl)-7-fluoro-5-(methylsulfonyl)-1,2,3,4-tetrahydrocyclopenta[b]indol-3-yl]-acetic acid (MK-0524). <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 794-806	8.3	161
74	SAI-in-oneSAIanalysis for metabolite identification using liquid chromatography/hybrid quadrupole time-of-flight mass spectrometry with collision energy switching. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 2597-602	2.2	149
73	Quantitative-qualitative data acquisition using a benchtop Orbitrap mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 1441-50	3.5	146
72	Discovery stage pharmacokinetics using dried blood spots. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004 , 809, 153-8	3.2	113
71	Disposable Emitters for On-line Capillary Zone Electrophoresis/Nanoelectrospray Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1997 , 11, 307-315	2.2	111
70	Deletion of microsomal prostaglandin E2 (PGE2) synthase-1 reduces inducible and basal PGE2 production and alters the gastric prostanoid profile. <i>Journal of Biological Chemistry</i> , 2004 , 279, 23229-37 ^{5.4}	5.4	100
69	High-throughput cytochrome P450 inhibition assays using laser diode thermal desorption-atmospheric pressure chemical ionization-tandem mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 4657-65	7.8	88
68	Merck's perspective on the implementation of dried blood spot technology in clinical drug development - why, when and how. <i>Bioanalysis</i> , 2013 , 5, 341-50	2.1	59
67	Characterization of protein glycoforms by capillary-zone electrophoresis/nanoelectrospray mass spectrometry. <i>Journal of Chromatography A</i> , 1998 , 794, 327-344	4.5	53
66	High-sensitivity nanoLC-MS/MS analysis of urinary desmosine and isodesmosine. <i>Analytical Chemistry</i> , 2009 , 81, 1881-7	7.8	49
65	Generic automated method for liquid chromatography-multiple reaction monitoring mass spectrometry based monoclonal antibody quantitation for preclinical pharmacokinetic studies. <i>Analytical Chemistry</i> , 2014 , 86, 8776-84	7.8	48
64	Analytical performance of a high-pressure radio frequency-only quadrupole collision cell with an axial field applied by using conical rods. <i>Journal of the American Society for Mass Spectrometry</i> , 1998 , 9, 775-788	3.5	48
63	Extractability-mediated stability bias and hematocrit impact: High extraction recovery is critical to feasibility of volumetric adsorptive microsampling (VAMS) in regulated bioanalysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 156, 58-66	3.5	47
62	Evaluation of adsorption preconcentration/capillary zone electrophoresis/nanoelectrospray mass spectrometry for peptide and glycoprotein analyses. <i>Journal of Mass Spectrometry</i> , 1998 , 33, 1109-23	2.2	47

61	Comparison of MALDI to ESI on a triple quadrupole platform for pharmacokinetic analyses. <i>Analytical Chemistry</i> , 2007 , 79, 9000-6	7.8	46
60	Catalytic inactivation of protein tyrosine phosphatase CD45 and protein tyrosine phosphatase 1B by polyaromatic quinones. <i>Biochemistry</i> , 2004 , 43, 4294-303	3.2	46
59	Simultaneous analysis of prostanoids using liquid chromatography/high-field asymmetric waveform ion mobility spectrometry/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1504-10	2.2	45
58	A strategy for identification of drug metabolites from dried blood spots using triple-quadrupole/linear ion trap hybrid mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005 , 19, 1984-92	2.2	42
57	The YRD motif is a major determinant of substrate and inhibitor specificity in T-cell protein-tyrosine phosphatase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26036-43	5.4	41
56	Reduction of animal usage by serial bleeding of mice for pharmacokinetic studies: application of robotic sample preparation and fast liquid chromatography-mass spectrometry. <i>Biomedical Applications</i> , 2001 , 754, 245-51		40
55	Fractional mass filtering as a means to assess circulating metabolites in early human clinical studies. <i>Rapid Communications in Mass Spectrometry</i> , 2008 , 22, 3510-6	2.2	37
54	An Integrated Strategy for Implementation of Dried Blood Spots in Clinical Development Programs. <i>AAPS Journal</i> , 2016 , 18, 519-27	3.7	33
53	Electrochemical properties of capillary electrophoresis-nanoelectrospray mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1999 , 10, 309-317	3.5	32
52	Phosphopeptide isomer separation using capillary zone electrophoresis for the study of protein kinases and phosphatases. <i>Analytical Chemistry</i> , 1999 , 71, 3469-76	7.8	30
51	Rapid measurement of deuterium-labeled long-chain fatty acids in plasma by HPLC-ESI-MS. <i>Journal of Lipid Research</i> , 2007 , 48, 252-9	6.3	27
50	Metabolic activation of indole-containing prostaglandin D2 receptor 1 antagonists: impacts of glutathione trapping and glucuronide conjugation on covalent binding. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 3038-43	2.9	26
49	Discovery of a substituted 8-arylquinoline series of PDE4 inhibitors: structure-activity relationship, optimization, and identification of a highly potent, well tolerated, PDE4 inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 5241-6	2.9	26
48	Top-down LC-MS quantitation of intact denatured and native monoclonal antibodies in biological samples. <i>Bioanalysis</i> , 2018 , 10, 1039-1054	2.1	25
47	Population PK Analyses of Ubrogepant (MK-1602), a CGRP Receptor Antagonist: Enriching In-Clinic Plasma PK Sampling With Outpatient Dried Blood Spot Sampling. <i>Journal of Clinical Pharmacology</i> , 2018 , 58, 294-303	2.9	24
46	Detection of covalent adducts to cytochrome P450 3A4 using liquid chromatography mass spectrometry. <i>Chemical Research in Toxicology</i> , 2004 , 17, 1356-61	4	23
45	Development of generic liquid chromatography-mass spectrometry methods using experimental design. <i>Journal of the American Society for Mass Spectrometry</i> , 2002 , 13, 2-9	3.5	22
44	Evaluation of acoustic emission as a means of quantitative chemical analysis. <i>Analytica Chimica Acta</i> , 1991 , 246, 43-53	6.6	21

43	The discovery of MK-0674, an orally bioavailable cathepsin K inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 887-92	2.9	19
42	Probing the microheterogeneity of O-specific chains from <i>Yersinia ruckeri</i> using capillary zone electrophoresis/electrospray mass spectrometry. <i>Electrophoresis</i> , 1996 , 17, 1818-28	3.6	17
41	Inactivation of Etamycin by a Novel Elimination Mechanism in <i>Streptomyces lividans</i> . <i>Journal of the American Chemical Society</i> , 1996 , 118, 5335-5338	16.4	16
40	2019 White Paper on Recent Issues in Bioanalysis: Chromatographic Assays (Part 1 - Innovation in Small Molecules and Oligonucleotides & Mass Spectrometric Method Development Strategies for Large Molecule Bioanalysis). <i>Bioanalysis</i> , 2019 , 11, 2029-2048	2.1	16
39	Direct quantitation of therapeutic antibodies for pharmacokinetic studies using immuno-purification and intact mass analysis. <i>Bioanalysis</i> , 2019 ,	2.1	15
38	High-Throughput Bioassays using "Dip-and-Go" Multiplexed Electrospray Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17594-17598	16.4	14
37	Insulin glargine and its two active metabolites: A sensitive (16pM) and robust simultaneous hybrid assay coupling immunoaffinity purification with LC-MS/MS to support biosimilar clinical studies. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1063, 50-59	3.2	14
36	Standardized workflows for increasing efficiency and productivity in discovery stage bioanalysis. <i>Bioanalysis</i> , 2013 , 5, 1783-94	2.1	14
35	Interspecies in vitro metabolism of the phosphodiesterase-4 (PDE4) inhibitor L-454,560. <i>Journal of Mass Spectrometry</i> , 2006 , 41, 771-80	2.2	14
34	Enabling Efficient Late-Stage Functionalization of Drug-Like Molecules with LC-MS and Reaction-Driven Data Processing. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 7122-7126	3.2	13
33	Using miniature MS system with automatic blood sampler for preclinical pharmacokinetics study. <i>Bioanalysis</i> , 2017 , 9, 1633-1641	2.1	12
32	IQ consortium perspective: complementary LBA and LC-MS in protein therapeutics bioanalysis and biotransformation assessment. <i>Bioanalysis</i> , 2020 , 12, 257-270	2.1	11
31	Leveraging Digital Health Technologies and Outpatient Sampling in Clinical Drug Development: A Phase I Exploratory Study. <i>Clinical Pharmacology and Therapeutics</i> , 2019 , 105, 168-176	6.1	11
30	2020 White Paper on Recent Issues in Bioanalysis: BMV of Hybrid Assays, Acoustic MS, HRMS, Data Integrity, Endogenous Compounds, Microsampling and Microbiome (- Recommendations on Industry/Regulators Consensus on BMV of Biotherapeutics by LCMS, Advanced Application in Hybrid Assays, Regulatory Challenges in Mass Spec, Innovation in Small Molecules, Peptides and	2.1	11
29	Quantitation of a Therapeutic Antibody in Serum Using Intact Sequential Affinity Capture, Trypsin Digestion, and LC-MS/MS. <i>Analytical Chemistry</i> , 2018 , 90, 866-871	7.8	11
28	Desaturation index versus isotopically measured de novo lipogenesis as an indicator of acute systemic lipogenesis. <i>BMC Research Notes</i> , 2015 , 8, 49	2.3	10
27	Plasma-based approach to measure target engagement for liver-targeting stearyl-CoA desaturase 1 inhibitors. <i>Journal of Lipid Research</i> , 2011 , 52, 1494-9	6.3	10
26	Determination of mercury vapor in air using electrically heated, gold-coated wire-loops, in-torch vaporization sample introduction and inductively coupled plasma atomic emission spectrometry with photodiode array detection. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1994 , 49, 867-874	3.1	10

25	Automated DBS microsampling, microscale automation and microflow LC-MS for therapeutic protein PK. <i>Bioanalysis</i> , 2016 , 8, 649-59	2.1	9
24	Direct comparison of radioimmunoassay and LC-MS/MS for PK assessment of insulin glargine in clinical development. <i>Bioanalysis</i> , 2014 , 6, 3311-23	2.1	9
23	Purification and characterization of the human PDE4A catalytic domain (PDE4A330-723) expressed in Sf9 cells. <i>Archives of Biochemistry and Biophysics</i> , 2001 , 394, 54-60	4.1	9
22	Correlation-based detection of spectral information using microliter volumes, in-torch vaporization (ITV) sample introduction and inductively coupled plasma atomic emission spectrometry with photodiode array detection. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1994 , 49, 989-1005	3.1	9
21	Intact Protein Mass Spectrometry for Therapeutic Protein Quantitation, Pharmacokinetics, and Biotransformation in Preclinical and Clinical Studies: An Industry Perspective. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1886-1900	3.5	9
20	Digitally Enabled, Patient-Centric Clinical Trials: Shifting the Drug Development Paradigm. <i>Clinical and Translational Science</i> , 2021 , 14, 445-459	4.9	9
19	Novel cytochrome P450-mediated ring opening of the 1,3,4-oxadiazole in setileuton, a 5-lipoxygenase inhibitor. <i>Drug Metabolism and Disposition</i> , 2011 , 39, 763-70	4	8
18	Direct Analysis from Phase-Separated Liquid Samples using ADE-OPI-MS: Applicability to High-Throughput Screening for Inhibitors of Diacylglycerol Acyltransferase 2. <i>Analytical Chemistry</i> , 2021 , 93, 6071-6079	7.8	8
17	Coupling of UHPLC with fast fraction collection-microplate scintillation counting and MS for radiolabeled metabolite profiling. <i>Bioanalysis</i> , 2012 , 4, 1299-309	2.1	7
16	Electrically heated wire-loop, in-torch vaporization sample introduction system for inductively coupled plasma atomic emission spectrometry with photodiode array detection. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1994 , 49, 847-865	3.1	7
15	Clinical application of volumetric absorptive microsampling to the gefapixant development program. <i>Bioanalysis</i> , 2020 , 12, 893-904	2.1	7
14	Spatial and temporal studies of metabolic activity: contrasting biochemical kinetics in tissues and pathways during fasted and fed states. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019 , 316, E1105-E1117	6	6
13	Microdosing Cocktail Assay Development for Drug-Drug Interaction Studies. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 1973-1986	3.9	5
12	High-Resolution Mass Spectrometry and Drug Metabolite Identification 2011 , 407-448		5
11	Probing the substrate specificity of an enzyme catalyzing inactivation of streptogramin B antibiotics using LC-MS and LC-MS/MS. <i>Journal of Mass Spectrometry</i> , 1997 , 32, 1057-63	2.2	4
10	Preparation of deuterium-labeled monounsaturated and saturated fatty acids for use as stable isotope metabolic tracers. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2006 , 49, 1273-1285 ^{1,9}		4
9	Glycoprotein analysis by capillary zone electrophoresis-electrospray mass spectrometry. <i>Methods in Molecular Biology</i> , 2003 , 213, 219-39	1.4	4
8	Using mass spectrometry to study the photo-affinity labeling of protein tyrosine phosphatase 1B. <i>International Journal of Mass Spectrometry</i> , 2004 , 238, 99-106	1.9	4

7	The development of patient-centric sampling as an enabling technology for clinical trials. <i>Bioanalysis</i> , 2020 , 12, 971-976	2.1	3
6	Volumetric absorptive microsampling (VAMS) in therapeutic protein quantification by LC-MS/MS: Investigation of anticoagulant impact on assay performance and recommendations for best practices in method development. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 196, 113895	3.5	2
5	A Model-Based Approach to Bridging Plasma and Dried Blood Spot Concentration Data for Phase 3 Verubecestat Trials.. <i>AAPS Journal</i> , 2022 , 24, 53	3.7	1
4	An Investigation of Instability in Dried Blood Spot Samples for Pharmacokinetic Sampling in Phase 3 Trials of Verubecestat.. <i>AAPS Journal</i> , 2022 , 24, 52	3.7	1
3	16th Annual Lakes Bioanalytical Conference. <i>Bioanalysis</i> , 2015 , 7, 2731-4	2.1	
2	Antibiotic resistance in <i>Streptomyces lividans</i> : fluorescence assay for streptogramin B lyase. <i>Analytical Biochemistry</i> , 1997 , 248, 297-9	3.1	
1	Intact Mass Quantitation of Therapeutic Antibodies for Pharmacokinetic Studies Using Immuno-Purification. <i>Methods in Molecular Biology</i> , 2022 , 2313, 259-268	1.4	