

Kevin P Bateman

List of Publications by Year in Descending Order

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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	Intact Mass Quantitation of Therapeutic Antibodies for Pharmacokinetic Studies Using Immuno-Purification. <i>Methods in Molecular Biology</i> , 2022 , 2313, 259-268	1.4	
77	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
76	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
75	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
74	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
73	Digitally Enabled, Patient-Centric Clinical Trials: Shifting the Drug Development Paradigm. <i>Clinical and Translational Science</i> , 2021 , 14, 445-459	4.9	9
72	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 Microsampling, and Challenges in Mass Spectrometry for Small Molecule Quantitation)	2.1	11
71	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
70	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
69	The development of patient-centric sampling as an enabling technology for clinical trials. <i>Bioanalysis</i> , 2020 , 12, 971-976	2.1	3
68	Clinical application of volumetric absorptive microsampling to the gefapixant development program. <i>Bioanalysis</i> , 2020 , 12, 893-904	2.1	7
67	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
66	Direct quantitation of therapeutic antibodies for pharmacokinetic studies using immuno-purification and intact mass analysis. <i>Bioanalysis</i> , 2019 ,	2.1	15
65	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
64	High-Throughput Bioassays using "Dip-and-Go" Multiplexed Electropray Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17594-17598	16.4	14
63	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
62	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

61	Microdosing Cocktail Assay Development for Drug-Drug Interaction Studies. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 1973-1986	3.9	5
60	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
59	Population PK Analyses of Ubrogapant (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
58	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
57	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
56	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
55	Using miniature MS system with automatic blood sampler for preclinical pharmacokinetics study. <i>Bioanalysis</i> , 2017 , 9, 1633-1641	2.1	12
54	Automated DBS microsampling, microscale automation and microflow LC-MS for therapeutic protein PK. <i>Bioanalysis</i> , 2016 , 8, 649-59	2.1	9
53	An Integrated Strategy for Implementation of Dried Blood Spots in Clinical Development Programs. <i>AAPS Journal</i> , 2016 , 18, 519-27	3.7	33
52	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
51	16th Annual Lakes Bioanalytical Conference. <i>Bioanalysis</i> , 2015 , 7, 2731-4	2.1	
50	Organic chemistry. Nanomole-scale high-throughput chemistry for the synthesis of complex molecules. <i>Science</i> , 2015 , 347, 49-53	33.3	332
49	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
48	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
47	Standardized workflows for increasing efficiency and productivity in discovery stage bioanalysis. <i>Bioanalysis</i> , 2013 , 5, 1783-94	2.1	14
46	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
45	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
44	High-Resolution Mass Spectrometry and Drug Metabolite Identification 2011 , 407-448		5

43	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
42	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
41	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
40	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
39	High-sensitivity nanoLC-MS/MS analysis of urinary desmosine and isodesmosine. <i>Analytical Chemistry</i> , 2009 , 81, 1881-7	7.8	49
38	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
37	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
36	Comparison of MALDI to ESI on a triple quadrupole platform for pharmacokinetic analyses. <i>Analytical Chemistry</i> , 2007 , 79, 9000-6	7.8	46
35	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
34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	All-in-one analysis 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

25	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	100
24	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
23	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
22	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
21	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
20	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
19	Glycoprotein analysis by capillary zone electrophoresis-electrospray mass spectrometry. <i>Methods in Molecular Biology</i> , 2003 , 213, 219-39	1.4	4
18	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
17	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
16	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
15	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
14	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
13	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
12	Characterization of protein glycoforms by capillary-zone electrophoresis-nanoelectrospray mass spectrometry. <i>Journal of Chromatography A</i> , 1998 , 794, 327-344	4.5	53
11	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
10	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
9	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
8	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

7	Antibiotic resistance in <i>Streptomyces lividans</i> : fluorescence assay for streptogramin B lyase. <i>Analytical Biochemistry</i> , 1997 , 248, 297-9	3.1	
6	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
5	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
4	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
3	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
2	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
1	Evaluation of acoustic emission as a means of quantitative chemical analysis. <i>Analytica Chimica Acta</i> , 1991 , 246, 43-53	6.6	21