Michael B Bolger

List of Publications by Year
in descending order

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48 papers	3,222 citations	218677 26 h-index	197818 49 g-index
50 all docs	50 docs citations	50 times ranked	2801 citing authors

#	Article	IF	Citations
1	Predicting the impact of physiological and biochemical processes on oral drug bioavailability. Advanced Drug Delivery Reviews, 2001, 50, S41-S67.	13.7	555
2	Anticonvulsant profile of the progesterone metabolite 5Î±-pregnan-3Î±-ol-20-one. European Journal of Pharmacology, 1989, 166, 325-329.	3.5	297
3	Calculations of antibody-antigen interactions: microscopic and semi-microscopic evaluation of the free energies of binding of phosphorylcholine analogs to McPC603. Protein Engineering, Design and Selection, 1992, 5, 215-228.	2.1	289
4	PBPK models for the prediction of in vivo performance of oral dosage forms. European Journal of Pharmaceutical Sciences, 2014, 57, 300-321.	4.0	263
5	In vivo methods for drug absorption â€“ Comparative physiologies, model selection, correlations with in vitro methods (IVIVC), and applications for formulation/API/excipient characterization including food effects. European Journal of Pharmaceutical Sciences, 2014, 57, 99-151.	4.0	226
6	Discovery of structurally diverse HIV-1 integrase inhibitors based on a chalcone pharmacophore. Bioorganic and Medicinal Chemistry, 2007, 15, 4985-5002.	3.0	127
7	Structure, Function, and Molecular Modeling Approaches to the Study of the Intestinal Dipeptide Transporter PepT1. Journal of Pharmaceutical Sciences, 1998, 87, 1286-1291.	3.3	105
8	Differential Responses of Expressed Recombinant Human ?-Aminobutyric AcidAReceptors to Neurosteroids. Journal of Neurochemistry, 1991, 57, 1818-1821.	3.9	92
9	Application of Gastrointestinal Simulation for Extensions for Biowaivers of Highly Permeable Compounds. AAPS Journal, 2008, 10, 213-226.	4.4	82
10	Simulations of the Nonlinear Dose Dependence for Substrates of Influx and Efflux Transporters in the Human Intestine. AAPS Journal, 2009, 11, 353-363.	4.4	78
11	Prediction of Modified Release Pharmacokinetics and Pharmacodynamics from In Vitro, Immediate Release, and Intravenous Data. AAPS Journal, 2009, 11, 323-334.	4.4	75
12	Thyroxine analogs. 23. Quantitative structure-activity correlation studies of in vivo and in vitro thyromimetic activities. Journal of Medicinal Chemistry, 1977, 20, 863-880.	6.4	70
13	In Silico Modeling of Non-Linear Drug Absorption for the P-gp Substrate Talinolol and of Consequences for the Resulting Pharmacodynamic Effect. Pharmaceutical Research, 2006, 23, 1712-1720.	3.5	66
14	Molecular Identification of a Role for Tyrosine 167 in the Function of the Human Intestinal Proton-Coupled Dipeptide Transporter (hPepT1). Biochemical and Biophysical Research Communications, 1998, 250, 103-107.	2.1	65
15	The composite solubility versus pH profile and its role in intestinal absorption prediction. AAPS PharmSci, 2003, 5, 35-49.	1.3	64
16	IMI â€“ Oral biopharmaceutics tools project â€“ Evaluation of bottom-up PBPK prediction success part 2: An introduction to the simulation exercise and overview of results. European Journal of Pharmaceutical Sciences, 2017, 96, 610-625.	4.0	58
17	Synthesis andin VitroActivity of 3Î²-Substituted-3Î±-hydroxypregnan-20-ones:Â Allosteric Modulators of the GABAAReceptorâ€. Journal of Medicinal Chemistry, 1997, 40, 61-72.	6.4	54
18	The neuroactive steroid 3Î±-hydroxy-5Î²-pregnan-20-one is a two-component modulator of ligand binding to the GABAA receptor. European Journal of Pharmacology, 1994, 269, 157-163.	2.6	53

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19	Identification and characterization of a pregnane steroid recognition site that is functionally coupled to an expressed GABAA receptor. Neurochemical Research, 1991, 16, 347-356.	3.3	47
20	In Silico Modeling for the Nonlinear Absorption Kinetics of UK-343,664: A P-gp and CYP3A4 Substrate. Molecular Pharmaceutics, 2012, 9, 492-504.	4.6	45
21	Provisional Biopharmaceutical Classification of Some Common Herbs Used in Western Medicine. Molecular Pharmaceutics, 2012, 9, 815-822.	4.6	44
22	Current status and future opportunities for incorporation of dissolution data in PBPK modeling for pharmaceutical development and regulatory applications: OrBiTo consortium commentary. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 155, 55-68.	4.3	38
23	The Prediction of the Relative Importance of CYP3A/P-glycoprotein to the Nonlinear Intestinal Absorption of Drugs by Advanced Compartmental Absorption and Transit Model. Drug Metabolism and Disposition, 2016, 44, 1808-1818.	3.3	36
24	Applications of supercritical fluids to enhance the dissolution behaviors of Furosemide by generation of microparticles and solid dispersions. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 81, 131-141.	4.3	35
25	Biopharmaceutics of transmucosal peptide and protein drug administration: role of transport mechanisms with a focus on the involvement of PepT1. Journal of Controlled Release, 1999, 62, 129-140.	9.9	34
26	Application of a Dynamic Fluid and pH Model to Simulate Intraluminal and Systemic Concentrations of a Weak Base in GastroPlusâ„¢. Journal of Pharmaceutical Sciences, 2019, 108, 305-315.	3.3	32
27	IMI â€“ Oral biopharmaceutics tools project â€“ Evaluation of bottom-up PBPK prediction success part 4: Prediction accuracy and software comparisons with improved data and modelling strategies. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 156, 50-63.	4.3	27
28	Mutagenesis and Cysteine Scanning of Transmembrane Domain 10 of the Human Dipeptide Transporter. Pharmaceutical Research, 2009, 26, 2358-2366.	3.5	25
29	Physiologically Based Pharmacokinetic Modeling in Lead Optimization. 1. Evaluation and Adaptation of GastroPlus To Predict Bioavailability of Medchem Series. Molecular Pharmaceutics, 2018, 15, 821-830.	4.6	22
30	Predicting the Effect of Fed-State Intestinal Contents on Drug Dissolution. Pharmaceutical Research, 2010, 27, 2646-2656.	3.5	20
31	The Irrelevance of InÂVitro Dissolution in Setting Product Specifications for Drugs Like Dextromethorphan That are Subject to Lysosomal Trapping. Journal of Pharmaceutical Sciences, 2019, 108, 268-278.	3.3	20
32	Kinetics of association between bisquaternary ammonium ligands and acetylcholinesterase. Evidence for two conformational states of the enzyme from stopped-flow measurements of fluorescence. Biochemistry, 1979, 18, 3622-3629.	2.5	19
33	Three-dimensional structure of fibrolase, the fibrinolytic enzyme from southern copperhead venom, modeled from the x-ray structure of adamalysin II and atrolysin C. AAPS PharmSci, 2001, 3, 78-90.	1.3	18
34	Clinical Pharmacokinetics of Buffered Propranolol Sublingual Tablet (Promptolâ„¢)â€”Application of a New â€œPhysiologically Basedâ€•Model to Assess Absorption and Disposition. AAPS Journal, 2013, 15, 787-796.	4.4	16
35	Statistical moment theory in chemical kinetics. Analytical Chemistry, 1985, 57, 2145-2151.	6.5	15
36	Physiologically Based Pharmacokinetic Modeling in Lead Optimization. 2. Rational Bioavailability Design by Global Sensitivity Analysis To Identify Properties Affecting Bioavailability. Molecular Pharmaceutics, 2018, 15, 831-839.	4.6	14

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37	In vivo and in vitro hyperbaric studies in mice suggest novel sites of action for ethanol. Psychopharmacology, 1999, 141, 339-350.	3.1	12
38	Preparation and characterization of antisera and monoclonal antibodies to haloperdol. Immunological Investigations, 1985, 14, 523-540.	2.0	10
39	A combined in vitro in-silico approach to predict the oral bioavailability of borderline BCS Class II/IV weak base albendazole and its main metabolite albendazole sulfoxide. European Journal of Pharmaceutical Sciences, 2020, 155, 105552.	4.0	10
40	In vitro and in vivo activity of 16,17-dehydro-epipregnanolones: 17,20-bond torsional energy analysis and D-ring conformation. Pharmaceutical Research, 1996, 13, 1488-1494.	3.5	9
41	PBPK Modeling as a Tool for Predicting and Understanding Intestinal Metabolism of Uridine 5â€²-Diphospho-glucuronosyltransferase Substrates. Pharmaceutics, 2021, 13, 1325.	4.5	9
42	Translational Modeling Strategies for Orally Administered Drug Products: Academic, Industrial and Regulatory Perspectives. Pharmaceutical Research, 2020, 37, 95.	3.5	8
43	[2] Computer modeling of combining site structure of anti-hapten monoclonal antibodies. Methods in Enzymology, 1991, 203, 21-45.	1.0	7
44	Using molecular mimicry to produce anti-receptor antibodies. BioEssays, 1985, 3, 213-217.	2.5	6
45	Pressure-sensitive and -insensitive coupling in Î³-aminobutyric acid a receptors. Psychopharmacology, 2001, 157, 401-410.	3.1	4
46	Predicting Pharmacokinetics of Multisource Acyclovir Oral Products Through Physiologically Based Biopharmaceutics Modeling. Journal of Pharmaceutical Sciences, 2022, 111, 262-273.	3.3	4
47	Modeling of Absorption. Methods in Molecular Biology, 2012, 929, 313-336.	0.9	3
48	Computational Techniques in Macromolecular Structural Analysis. , 1995, , 433-490.		1