Makoto Kataoka

List of Publications by Year
in descending order

50 papers	1,745 citations	346980 22 h-index	299063 42 g-index
51 all docs	51 docs citations	51 times ranked	1851 citing authors

#	Article	IF	Citations
1	Interspecies differences in gastrointestinal physiology affecting the in vivo performance of oral pharmaceutical solid dosage forms. Journal of Drug Delivery Science and Technology, 2022, 67, 102923.	1.4	1
2	Discovery of benzyloxyphenyl- and phenethylphenyl-imidazole derivatives as a new class of anteâ€“drug type boosters. Bioorganic and Medicinal Chemistry Letters, 2022, 72, 128868.	1.0	1
3	In Vitro Sensitivity Analysis of the Gastrointestinal Dissolution Profile of Weakly Basic Drugs in the Stomach-to-Intestine Fluid Changing System: Explanation for Variable Plasma Exposure after Oral Administration. Molecular Pharmaceutics, 2021, 18, 1711-1719.	2.3	8
4	Bioequivalence of Oral Drug Products in the Healthy and Special Populations: Assessment and Prediction Using a Newly Developed In Vitro System â€œBE Checkerâ€• Pharmaceutics, 2021, 13, 1136.	2.0	6
5	Maximizing the Oral Bioavailability of Poorly Water-Soluble Drugs Using Novel Oil-Like Materials in Lipid-Based Formulations. Molecular Pharmaceutics, 2021, 18, 3281-3289.	2.3	5
6	New biphasic system in side-by-side chambers for testing drug dissolution and permeation in vitro (BiDP system). Journal of Drug Delivery Science and Technology, 2021, 65, 102747.	1.4	1
7	In Vitroâ€“In Vivo Correlation in Cocrystal Dissolution: Consideration of Drug Release Profiles Based on Coformer Dissolution and Absorption Behavior. Molecular Pharmaceutics, 2021, 18, 4122-4130.	2.3	10
8	Challenge for oral delivery of middle-molecular drugs: Use of osmolarity-sensitive liposome as a drug carrier in the GI tract. Journal of Drug Delivery Science and Technology, 2020, 56, 101041.	1.4	5
9	Biopredictive in vitro testing methods to assess intestinal drug absorption from supersaturating dosage forms. Journal of Drug Delivery Science and Technology, 2020, 56, 101275.	1.4	6
10	Impact of Dietary Intake of Medium-Chain Triacylglycerides on the Intestinal Absorption of Poorly Permeable Compounds. Molecular Pharmaceutics, 2020, 17, 212-218.	2.3	6
11	An enteric polymer mitigates the effects of gastric pH on oral absorption of poorly soluble weak acid drugs from supersaturable formulations: A case study with dantrolene. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 155, 29-36.	2.0	6
12	In vivo screening of oral formulations using rats: Effects of ingested water volume on oral absorption of BCS class I and III drugs from immediate-release formulations. Journal of Drug Delivery Science and Technology, 2020, 60, 102100.	1.4	3
13	Species differences in the drugâ€“drug interaction between atorvastatin and cyclosporine: In vivo study using a stable isotope-IV method in rats and dogs. European Journal of Pharmaceutical Sciences, 2020, 152, 105409.	1.9	5
14	Control of oral absorption of nutritional supplement using lipid-based formulations (LBFs): Application to the poorly water-soluble ingredient. Journal of Drug Delivery Science and Technology, 2020, 57, 101675.	1.4	3
15	Analysis of the Complicated Nonlinear Pharmacokinetics of Orally Administered Telmisartan in Rats Using a Stable Isotope-IV Method. Journal of Pharmaceutical Sciences, 2019, 108, 2774-2780.	1.6	2
16	InÂVitro Assessment of Supersaturation/Precipitation and Biological Membrane Permeation of Poorly Water-Soluble Drugs: A Case Study With Albendazole and Ketoconazole. Journal of Pharmaceutical Sciences, 2019, 108, 2580-2587.	1.6	13
17	Application of an InÂVitro Dissolution/Permeation System to Early Screening of Oral Formulations of Poorly Soluble, Weakly Basic Drugs Containing an Acidic pH-Modifier. Journal of Pharmaceutical Sciences, 2018, 107, 2404-2410.	1.6	7
18	Design of supersaturable formulation of telmisartan with pH modifier: in vitro study on dissolution and precipitation. Journal of Pharmaceutical Investigation, 2017, 47, 163-171.	2.7	14

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19	Quantitative Analysis of the Transporter-Mediated Drug-Drug Interaction Between Atorvastatin and Rifampicin Using a Stable Isotope-IV Method. Journal of Pharmaceutical Sciences, 2017, 106, 2671-2677.	1.6	3
20	Advantage of the Dissolution/Permeation System for Estimating Oral Absorption of Drug Candidates in the Drug Discovery Stage. Molecular Pharmaceutics, 2016, 13, 1564-1574.	2.3	26
21	Characterizing the dissolution profiles of supersaturable salts, cocrystals, and solvates to enhance in vivo oral absorption. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 103, 192-199.	2.0	40
22	Quantitative analysis of pharmacokinetic profiles of verapamil and drugâ€“drug interactions induced by a CYP inhibitor using a stable isotope-labeled compound. Drug Metabolism and Pharmacokinetics, 2016, 31, 405-410.	1.1	5
23	Evaluation of dose-dependent oral absorption of a newly developed drug candidate: InÂvitro-inÂvivo correlation. Journal of Drug Delivery Science and Technology, 2016, 31, 160-166.	1.4	3
24	Effects of gastric pH on oral drug absorption: In vitro assessment using a dissolution/permeation system reflecting the gastric dissolution process. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 101, 103-111.	2.0	46
25	An Assessment of the Oral Bioavailability of Three Ca-Channel Blockers Using a Cassette-Microdose Study: A New Strategy for Streamlining Oral Drug Development. Journal of Pharmaceutical Sciences, 2015, 104, 3154-3161.	1.6	9
26	Interaction with Mixed Micelles in the Intestine Attenuates the Permeation Enhancing Potential of Alkyl-Maltosides. Molecular Pharmaceutics, 2015, 12, 2245-2253.	2.3	35
27	Analysis of Intra- and Intersubject Variability in Oral Drug Absorption in Human Bioequivalence Studies of 113 Generic Products. Molecular Pharmaceutics, 2015, 12, 4405-4413.	2.3	42
28	A new in vitro system for evaluation of passive intestinal drug absorption: Establishment of a double artificial membrane permeation assay. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 840-846.	2.0	14
29	In Vitroâ€“in Vivo Correlation of the Effect of Supersaturation on the Intestinal Absorption of BCS Class 2 Drugs. Molecular Pharmaceutics, 2014, 11, 746-754.	2.3	49
30	Effect of Excipients on the Particle Size of Precipitated Pioglitazone in the Gastrointestinal Tract: Impact on Bioequivalence. AAPS Journal, 2014, 16, 1119-1127.	2.2	21
31	Inhibition mechanism of hydroxypropyl methylcellulose acetate succinate on drug crystallization in gastrointestinal fluid and drug permeability from a supersaturated solution. European Journal of Pharmaceutical Sciences, 2014, 62, 293-300.	1.9	33
32	Measurement of Drug Concentration in the Stomach After Intragastric Administration of Drug Solution to Healthy Volunteers: Analysis of Intragastric Fluid Dynamics and Drug Absorption. Pharmaceutical Research, 2013, 30, 951-958.	1.7	35
33	Assessment of absorption potential of poorly water-soluble drugs by using the dissolution/permeation system. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 85, 1317-1324.	2.0	31
34	Preparation of fenofibrate solid dispersion using electrospray deposition and improvement in oral absorption by instantaneous post-heating of the formulation. International Journal of Pharmaceutics, 2013, 450, 123-128.	2.6	43
35	Dynamic Analysis of Fluid Distribution in the Gastrointestinal Tract in Rats: Positron Emission Tomography Imaging after Oral Administration of Nonabsorbable Marker, [¹⁸F]Deoxyfluoropoly(ethylene glycol). Molecular Pharmaceutics, 2013, 10, 2261-2269.	2.3	31
36	Establishment of MDCKII Cell Monolayer with Metabolic Activity by CYP3A4 Transduced with Recombinant Adenovirus. Drug Metabolism and Pharmacokinetics, 2013, 28, 125-131.	1.1	5

#	ARTICLE	IF	CITATIONS
37	Performance of cell-penetrating peptide-linked polymers physically mixed with poorly membrane-permeable molecules on cell membranes. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 81, 64-73.	2.0	21
38	Integrating drug permeability with dissolution profile to develop IVIVC. Biopharmaceutics and Drug Disposition, 2012, 33, 354-365.	1.1	30
39	Application of Dissolution/Permeation System for Evaluation of Formulation Effect on Oral Absorption of Poorly Water-Soluble Drugs in Drug Development. Pharmaceutical Research, 2012, 29, 1485-1494.	1.7	78
40	In Vitro Dissolution/Permeation System to Predict the Oral Absorption of Poorly Water-Soluble Drugs: Effect of Food and Dose Strength on It. Biological and Pharmaceutical Bulletin, 2011, 34, 401-407.	0.6	42
41	Estimation of P-glycoprotein-mediated efflux in the oral absorption of P-gp substrate drugs from simultaneous analysis of drug dissolution and permeation. European Journal of Pharmaceutical Sciences, 2011, 44, 544-551.	1.9	24
42	Preparation of spray-dried microparticles using Gelucire 44/14 and porous calcium silicate or spherical microcrystalline cellulose to enhance transport of water-insoluble pranlukast hemihydrate across Caco-2 monolayers. Advanced Powder Technology, 2011, 22, 623-628.	2.0	7
43	Scale-up of in vitro permeation assay data to human intestinal permeability using pore theory. International Journal of Pharmaceutics, 2011, 414, 69-76.	2.6	4
44	PET Imaging of the Gastrointestinal Absorption of Orally Administered Drugs in Conscious and Anesthetized Rats. Journal of Nuclear Medicine, 2011, 52, 249-256.	2.8	45
45	Prediction of food effect by bile micelles on oral drug absorption considering free fraction in intestinal fluid. European Journal of Pharmaceutical Sciences, 2010, 40, 118-124.	1.9	79
46	Mechanisms of Membrane Transport of Poorly Soluble Drugs: Role of Micelles in Oral Absorption Processes. Journal of Pharmaceutical Sciences, 2010, 99, 1336-1345.	1.6	85
47	IVIVC in oral absorption for fenofibrate immediate release tablets using a dissolution/permeation system. Journal of Pharmaceutical Sciences, 2009, 98, 2001-2009.	1.6	69
48	Effect of Food Intake on the Oral Absorption of Poorly Water-Soluble Drugs: In Vitro Assessment of Drug Dissolution and Permeation Assay System. Journal of Pharmaceutical Sciences, 2006, 95, 2051-2061.	1.6	90
49	In vitro system to evaluate oral absorption of poorly water-soluble drugs: simultaneous analysis on dissolution and permeation of drugs. Pharmaceutical Research, 2003, 20, 1674-1680.	1.7	134
50	Optimized conditions for prediction of intestinal drug permeability using Caco-2 cells. European Journal of Pharmaceutical Sciences, 2000, 10, 195-204.	1.9	464