

Gordon L Amidon

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ext. citations

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L-index

#	Paper	IF	Citations
153	A theoretical basis for a biopharmaceutical drug classification: the correlation of in vitro drug product dissolution and in vivo bioavailability. <i>Pharmaceutical Research</i> , 1995 , 12, 413-20	4.5	3518
152	Dissolution testing as a prognostic tool for oral drug absorption: immediate release dosage forms. <i>Pharmaceutical Research</i> , 1998 , 15, 11-22	4.5	748
151	Gastrointestinal uptake of biodegradable microparticles: effect of particle size. <i>Pharmaceutical Research</i> , 1996 , 13, 1838-45	4.5	703
150	The mechanism of uptake of biodegradable microparticles in Caco-2 cells is size dependent. <i>Pharmaceutical Research</i> , 1997 , 14, 1568-73	4.5	655
149	Molecular properties of WHO essential drugs and provisional biopharmaceutical classification. <i>Molecular Pharmaceutics</i> , 2004 , 1, 85-96	5.6	597
148	A provisional biopharmaceutical classification of the top 200 oral drug products in the United States, Great Britain, Spain, and Japan. <i>Molecular Pharmaceutics</i> , 2006 , 3, 631-43	5.6	416
147	Biopharmaceutics classification system: the scientific basis for biowaiver extensions. <i>Pharmaceutical Research</i> , 2002 , 19, 921-5	4.5	393
146	A compartmental absorption and transit model for estimating oral drug absorption. <i>International Journal of Pharmaceutics</i> , 1999 , 186, 119-25	6.5	357
145	Lessons learned from marketed and investigational prodrugs. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 2393-404	8.3	304
144	Physiological parameters for oral delivery and in vitro testing. <i>Molecular Pharmaceutics</i> , 2010 , 7, 1388-405	5.6	287
143	Quantification of gastrointestinal liquid volumes and distribution following a 240 mL dose of water in the fasted state. <i>Molecular Pharmaceutics</i> , 2014 , 11, 3039-47	5.6	271
142	Transport approaches to the biopharmaceutical design of oral drug delivery systems: prediction of intestinal absorption. <i>Advanced Drug Delivery Reviews</i> , 1996 , 19, 359-76	18.5	261
141	5RAmino acid esters of antiviral nucleosides, acyclovir, and AZT are absorbed by the intestinal PEPT1 peptide transporter. <i>Pharmaceutical Research</i> , 1998 , 15, 1154-9	4.5	249
140	Estimating human oral fraction dose absorbed: a correlation using rat intestinal membrane permeability for passive and carrier-mediated compounds. <i>Pharmaceutical Research</i> , 1988 , 5, 651-4	4.5	239
139	Estimating the fraction dose absorbed from suspensions of poorly soluble compounds in humans: a mathematical model. <i>Pharmaceutical Research</i> , 1993 , 10, 264-70	4.5	191
138	The Biopharmaceutics Classification System: subclasses for in vivo predictive dissolution (IPD) methodology and IVIVC. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 57, 152-63	5.1	185
137	Targeted prodrug design to optimize drug delivery. <i>AAPS PharmSci</i> , 2000 , 2, E6		168

136	The influence of variable gastric emptying and intestinal transit rates on the plasma level curve of cimetidine; an explanation for the double peak phenomenon. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1987 , 15, 529-44		163
135	The influence of the interdigestive migrating myoelectric complex on the gastric emptying of liquids. <i>Gastroenterology</i> , 1990 , 99, 1275-82	13.3	144
134	Absorption of polyethylene glycols 600 through 2000: the molecular weight dependence of gastrointestinal and nasal absorption. <i>Pharmaceutical Research</i> , 1990 , 7, 863-8	4.5	132
133	Predicting fraction dose absorbed in humans using a macroscopic mass balance approach. <i>Pharmaceutical Research</i> , 1991 , 8, 979-88	4.5	128
132	The suitability of an in situ perfusion model for permeability determinations: utility for BCS class I biowaiver requests. <i>Molecular Pharmaceutics</i> , 2006 , 3, 686-94	5.6	119
131	Structural specificity of mucosal-cell transport and metabolism of peptide drugs: implication for oral peptide drug delivery. <i>Pharmaceutical Research</i> , 1992 , 9, 969-78	4.5	119
130	pH-dependent swelling and solute diffusion characteristics of poly(hydroxyethyl methacrylate-co-methacrylic acid) hydrogels. <i>Pharmaceutical Research</i> , 1988 , 5, 592-7	4.5	114
129	A pH- and ionic strength-responsive polypeptide hydrogel: synthesis, characterization, and preliminary protein release studies. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 47, 595-602		98
128	Solubilization and dissolution of insoluble weak acid, ketoprofen: effects of pH combined with surfactant. <i>European Journal of Pharmaceutical Sciences</i> , 2006 , 29, 306-14	5.1	89
127	High-permeability criterion for BCS classification: segmental/pH dependent permeability considerations. <i>Molecular Pharmaceutics</i> , 2010 , 7, 1827-34	5.6	84
126	G.L. Amidon, H. Lennernas, V.P. Shah, and J.R. Crison. A theoretical basis for a biopharmaceutic drug classification: the correlation of in vitro drug product dissolution and in vivo bioavailability, <i>Pharm Res</i> 12, 413-420, 1995--backstory of BCS. <i>AAPS Journal</i> , 2014 , 16, 894-8	3.7	81
125	Cellular uptake mechanism of amino acid ester prodrugs in Caco-2/hPEPT1 cells overexpressing a human peptide transporter. <i>Pharmaceutical Research</i> , 1998 , 15, 1382-6	4.5	78
124	Use of the peptide carrier system to improve the intestinal absorption of L-alpha-methyldopa: carrier kinetics, intestinal permeabilities, and in vitro hydrolysis of dipeptidyl derivatives of L-alpha-methyldopa. <i>Pharmaceutical Research</i> , 1989 , 6, 66-70	4.5	75
123	Characterization of the oral absorption of beta-lactam antibiotics. I. Cephalosporins: determination of intrinsic membrane absorption parameters in the rat intestine in situ. <i>Pharmaceutical Research</i> , 1988 , 5, 645-50	4.5	75
122	Toward an in vivo dissolution methodology: a comparison of phosphate and bicarbonate buffers. <i>Molecular Pharmaceutics</i> , 2009 , 6, 29-39	5.6	69
121	Exploring gastrointestinal variables affecting drug and formulation behavior: Methodologies, challenges and opportunities. <i>International Journal of Pharmaceutics</i> , 2017 , 519, 79-97	6.5	68
120	Dissolution testing as a prognostic tool for oral drug absorption: dissolution behavior of glibenclamide. <i>Pharmaceutical Research</i> , 2000 , 17, 439-44	4.5	68
119	Low Buffer Capacity and Alternating Motility along the Human Gastrointestinal Tract: Implications for in Vivo Dissolution and Absorption of Ionizable Drugs. <i>Molecular Pharmaceutics</i> , 2017 , 14, 4281-4294	5.6	66

118	In silico prediction of drug dissolution and absorption with variation in intestinal pH for BCS class II weak acid drugs: ibuprofen and ketoprofen. <i>Biopharmaceutics and Drug Disposition</i> , 2012 , 33, 366-77	1.7	64
117	Factors that influence stability of recombinant adenoviral preparations for human gene therapy. <i>Pharmaceutical Development and Technology</i> , 1998 , 3, 373-83	3.4	62
116	In vivo predictive dissolution: transport analysis of the CO ₂ , bicarbonate in vivo buffer system. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 3473-3490	3.9	61
115	Beta cyclodextrins enhance adenoviral-mediated gene delivery to the intestine. <i>Pharmaceutical Research</i> , 1998 , 15, 1348-55	4.5	61
114	Effects of gravity on gastric emptying, intestinal transit, and drug absorption. <i>Journal of Clinical Pharmacology</i> , 1991 , 31, 968-73	2.9	60
113	Mechanistic analysis of solute transport in an in vitro physiological two-phase dissolution apparatus. <i>Biopharmaceutics and Drug Disposition</i> , 2012 , 33, 378-402	1.7	59
112	In Vitro and in Vivo Testing and Correlation for Oral Controlled/Modified-Release Dosage Forms. <i>Pharmaceutical Research</i> , 1990 , 07, 975-982	4.5	58
111	Steady-state pharmacokinetics of delavirdine in HIV-positive patients: effect on erythromycin breath test. <i>Clinical Pharmacology and Therapeutics</i> , 1997 , 61, 531-43	6.1	57
110	The molecular weight dependence of nasal absorption: the effect of absorption enhancers. <i>Pharmaceutical Research</i> , 1990 , 7, 808-15	4.5	56
109	Evaluation of a three compartment in vitro gastrointestinal simulator dissolution apparatus to predict in vivo dissolution. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 3416-3422	3.9	55
108	Comparison of the permeability of metoprolol and labetalol in rat, mouse, and Caco-2 cells: use as a reference standard for BCS classification. <i>Molecular Pharmaceutics</i> , 2013 , 10, 958-66	5.6	50
107	In Vivo Predictive Dissolution: Comparing the Effect of Bicarbonate and Phosphate Buffer on the Dissolution of Weak Acids and Weak Bases. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 2894-904	3.9	50
106	In vitro dissolution methodology, mini-Gastrointestinal Simulator (mGIS), predicts better in vivo dissolution of a weak base drug, dasatinib. <i>European Journal of Pharmaceutical Sciences</i> , 2015 , 76, 203-12 ^{5.1}	5.1	48
105	Summary workshop report: bioequivalence, biopharmaceutics classification system, and beyond. <i>AAPS Journal</i> , 2008 , 10, 373-9	3.7	48
104	Human intestinal permeability of piroxicam, propranolol, phenylalanine, and PEG 400 determined by jejunal perfusion. <i>Pharmaceutical Research</i> , 1997 , 14, 1127-32	4.5	45
103	Pharmacokinetics of alcohol following single low doses to fasted and nonfasted subjects. <i>Journal of Clinical Pharmacology</i> , 1977 , 17, 199-206	2.9	45
102	Transdermal delivery of bioactive peptides: the effect of n-decylmethyl sulfoxide, pH, and inhibitors on enkephalin metabolism and transport. <i>Pharmaceutical Research</i> , 1990 , 7, 1099-106	4.5	44
101	Oral absorption of peptides: the effect of absorption site and enzyme inhibition on the systemic availability of metkephamid. <i>Pharmaceutical Research</i> , 1994 , 11, 528-35	4.5	43

100	Oral absorption of peptides: influence of pH and inhibitors on the intestinal hydrolysis of leu-enkephalin and analogues. <i>Pharmaceutical Research</i> , 1991 , 8, 93-6	4.5	43
99	Structural requirements for the intestinal mucosal-cell peptide transporter: the need for N-terminal alpha-amino group. <i>Pharmaceutical Research</i> , 1991 , 8, 593-9	4.5	41
98	In Vitro Dissolution of Fluconazole and Dipyridamole in Gastrointestinal Simulator (GIS), Predicting in Vivo Dissolution and Drug-Drug Interaction Caused by Acid-Reducing Agents. <i>Molecular Pharmaceutics</i> , 2015 , 12, 2418-28	5.6	39
97	Human proton/oligopeptide transporter (POT) genes: identification of putative human genes using bioinformatics. <i>AAPS PharmSci</i> , 2000 , 2, E16		38
96	Human dipeptide transporter, hPEPT1, stably transfected into Chinese hamster ovary cells. <i>Pharmaceutical Research</i> , 1996 , 13, 1631-4	4.5	38
95	Variable gastric emptying and discontinuities in drug absorption profiles: dependence of rates and extent of cimetidine absorption on motility phase and pH. <i>Biopharmaceutics and Drug Disposition</i> , 1994 , 15, 719-46	1.7	38
94	The Evaluation of In Vitro Drug Dissolution of Commercially Available Oral Dosage Forms for Itraconazole in Gastrointestinal Simulator With Biorelevant Media. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 2804-2814	3.9	38
93	In Vivo Dissolution and Systemic Absorption of Immediate Release Ibuprofen in Human Gastrointestinal Tract under Fed and Fasted Conditions. <i>Molecular Pharmaceutics</i> , 2017 , 14, 4295-4304	5.6	36
92	Nucleoside ester prodrug substrate specificity of liver carboxylesterase. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006 , 316, 572-80	4.7	36
91	Prolidase, a potential enzyme target for melanoma: design of proline-containing dipeptide-like prodrugs. <i>Molecular Pharmaceutics</i> , 2005 , 2, 37-46	5.6	36
90	The effect of in vivo dissolution, gastric emptying rate, and intestinal transit time on the peak concentration and area-under-the-curve of drugs with different gastrointestinal permeabilities. <i>Pharmaceutical Research</i> , 1999 , 16, 272-80	4.5	36
89	Mechanism of absorption of the dipeptide alpha-methyldopa-phe in intestinal brush-border membrane vesicles. <i>Pharmaceutical Research</i> , 1990 , 7, 308-9	4.5	36
88	Magnetic Resonance Imaging Quantification of Fasted State Colonic Liquid Pockets in Healthy Humans. <i>Molecular Pharmaceutics</i> , 2017 , 14, 2629-2638	5.6	35
87	The impact of supersaturation level for oral absorption of BCS class IIb drugs, dipyridamole and ketoconazole, using in vivo predictive dissolution system: Gastrointestinal Simulator (GIS). <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 102, 126-139	5.1	33
86	Influence of physical aging on mechanical properties of polymer free films: the prediction of long-term aging effects on the water permeability and dissolution rate of polymer film-coated tablets. <i>Pharmaceutical Research</i> , 1991 , 8, 1500-4	4.5	32
85	Development of a highly efficient purification process for recombinant adenoviral vectors for oral gene delivery. <i>Pharmaceutical Development and Technology</i> , 1998 , 3, 365-72	3.4	31
84	Viscoelastic properties of polyacrylic acid gels in mixed solvents. <i>Pharmaceutical Research</i> , 1992 , 9, 1659-63		31
83	Measurement of in vivo Gastrointestinal Release and Dissolution of Three Locally Acting Mesalamine Formulations in Regions of the Human Gastrointestinal Tract. <i>Molecular Pharmaceutics</i> , 2017 , 14, 345-358	5.6	30

82	Mechanistic Analysis of Cocrystal Dissolution as a Function of pH and Micellar Solubilization. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1030-46	5.6	30
81	Evaluation and optimized selection of supersaturating drug delivery systems of posaconazole (BCS class 2b) in the gastrointestinal simulator (GIS): An in vitro-in silico-in vivo approach. <i>European Journal of Pharmaceutical Sciences</i> , 2018 , 115, 258-269	5.1	29
80	Mixture experimental design in the development of a mucoadhesive gel formulation. <i>Pharmaceutical Research</i> , 1991 , 8, 1401-7	4.5	29
79	The estimation of solubility in binary solvents: application of the reduced 3-suffix solubility equation to ethanol-water mixtures. <i>Pharmaceutical Research</i> , 1988 , 5, 193-5	4.5	29
78	The Combination of GIS and Biphasic to Better Predict In Vivo Dissolution of BCS Class IIb Drugs, Ketoconazole and Raloxifene. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 307-316	3.9	28
77	Bio-predictive tablet disintegration: effect of water diffusivity, fluid flow, food composition and test conditions. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 57, 273-9	5.1	28
76	Gastric pH influences the appearance of double peaks in the plasma concentration-time profiles of cimetidine after oral administration in dogs. <i>Pharmaceutical Research</i> , 1995 , 12, 780-6	4.5	28
75	Gastrointestinal Motility Variation and Implications for Plasma Level Variation: Oral Drug Products. <i>Molecular Pharmaceutics</i> , 2016 , 13, 557-67	5.6	27
74	Formulation predictive dissolution (FPD) testing to advance oral drug product development: An introduction to the US FDA funded 21st Century BA/BER project. <i>International Journal of Pharmaceutics</i> , 2018 , 548, 120-127	6.5	27
73	Mass Transport Analysis of Bicarbonate Buffer: Effect of the CO ₂ -HCO ₃ ⁻ Hydration-Dehydration Kinetics in the Fluid Boundary Layer and the Apparent Effective pK _a Controlling Dissolution of Acids and Bases. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2626-2635	5.6	25
72	A Mechanistic Physiologically-Based Biopharmaceutics Modeling (PBBM) Approach to Assess the In Vivo Performance of an Orally Administered Drug Product: From IVIVC to IVIVP. <i>Pharmaceutics</i> , 2020 , 12,	6.4	25
71	Calculation of the aqueous diffusion layer resistance for absorption in a tube: application to intestinal membrane permeability determination. <i>Pharmaceutical Research</i> , 1991 , 8, 298-305	4.5	25
70	An investigation into the mechanical and transport properties of aqueous latex films: a new hypothesis for the film-forming mechanism of aqueous dispersion system. <i>Pharmaceutical Research</i> , 1993 , 10, 405-10	4.5	25
69	Effect of micronization on the extent of drug absorption from suspensions in humans. <i>Archives of Pharmacol Research</i> , 1995 , 18, 427-433	6.1	24
68	Mass balance approaches for estimating the intestinal absorption and metabolism of peptides and analogues: theoretical development and applications. <i>Pharmaceutical Research</i> , 1993 , 10, 271-5	4.5	23
67	Viscometric study of polyacrylic acid systems as mucoadhesive sustained-release gels. <i>Pharmaceutical Research</i> , 1991 , 8, 1408-12	4.5	22
66	Peptide carrier-mediated transport in intestinal brush border membrane vesicles of rats and rabbits: cephadrine uptake and inhibition. <i>Pharmaceutical Research</i> , 1993 , 10, 400-4	4.5	22
65	Utilization of Gastrointestinal Simulator, an in Vivo Predictive Dissolution Methodology, Coupled with Computational Approach To Forecast Oral Absorption of Dipyridamole. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1181-1189	5.6	20

64	Stereoselective systemic disposition of ibuprofen enantiomers in the dog. <i>Pharmaceutical Research</i> , 1991 , 8, 1186-90	4.5	20
63	Drug marker absorption in relation to pellet size, gastric motility and viscous meals in humans. <i>Pharmaceutical Research</i> , 1998 , 15, 233-8	4.5	19
62	Description and simulation of a multiple mixing tank model to predict the effect of bile sequestrants on bile salt excretion. <i>Journal of Pharmaceutical Sciences</i> , 1993 , 82, 311-8	3.9	19
61	The effect of physical aging on the dissolution rate of anionic polyelectrolytes. <i>Pharmaceutical Research</i> , 1990 , 7, 648-53	4.5	19
60	Mass Transport Analysis of the Enhanced Buffer Capacity of the Bicarbonate-CO Buffer in a Phase-Heterogenous System: Physiological and Pharmaceutical Significance. <i>Molecular Pharmaceutics</i> , 2018 , 15, 5291-5301	5.6	19
59	Simulated, biorelevant, clinically relevant or physiologically relevant dissolution media: The hidden role of bicarbonate buffer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 142, 8-19	5.7	18
58	Linking the Gastrointestinal Behavior of Ibuprofen with the Systemic Exposure between and within Humans-Part 1: Fasted State Conditions. <i>Molecular Pharmaceutics</i> , 2018 , 15, 5454-5467	5.6	18
57	Gastric emptying and intestinal appearance of nonabsorbable drugs phenol red and paromomycin in human subjects: A multi-compartment stomach approach. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 129, 162-174	5.7	18
56	Substrate-Competitive Activity-Based Profiling of Ester Prodrug Activating Enzymes. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3399-407	5.6	17
55	Determination of the population pharmacokinetic parameters of sustained-release and enteric-coated oral formulations, and the suppository formulation of diclofenac sodium by simultaneous data fitting using NONMEM. <i>Biopharmaceutics and Drug Disposition</i> , 1998 , 19, 169-74	1.7	17
54	Viscoelasticity of anionic polymers and their mucociliary transport on the frog palate. <i>Pharmaceutical Research</i> , 1993 , 10, 411-7	4.5	17
53	Measuring the Impact of Gastrointestinal Variables on the Systemic Outcome of Two Suspensions of Posaconazole by a PBPK Model. <i>AAPS Journal</i> , 2018 , 20, 57	3.7	16
52	Carrier-Mediated Prodrug Uptake to Improve the Oral Bioavailability of Polar Drugs: An Application to an Oseltamivir Analogue. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 925-934	3.9	16
51	Overexpression of human intestinal oligopeptide transporter in mammalian cells via adenoviral transduction. <i>Pharmaceutical Research</i> , 1998 , 15, 1376-81	4.5	16
50	Drug inhibition of Gly-Sar uptake and hPepT1 localization using hPepT1-GFP fusion protein. <i>AAPS PharmSci</i> , 2001 , 3, E2		16
49	Synthesis and characterization of valyloxy methoxy luciferin for the detection of valacyclovirase and peptide transporter. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4781-4783	2.9	15
48	First-pass metabolism of peptide drugs in rat perfused liver. <i>Journal of Pharmacy and Pharmacology</i> , 1998 , 50, 1013-8	4.8	15
47	The absence of accessible vitronectin receptors in differentiated tissue hinders adenoviral-mediated gene transfer to the intestinal epithelium in vitro. <i>Pharmaceutical Research</i> , 1997 , 14, 1216-22	4.5	15

46	Equilibrium and kinetic factors influencing bile sequestrant efficacy. <i>Pharmaceutical Research</i> , 1992 , 9, 670-6	4.5	15
45	Mechanistic Fluid Transport Model to Estimate Gastrointestinal Fluid Volume and Its Dynamic Change Over Time. <i>AAPS Journal</i> , 2017 , 19, 1682-1690	3.7	14
44	Gastrointestinal Dissolution and Absorption of Class II Drugs. <i>Methods and Principles in Medicinal Chemistry</i> , 2008 , 33-51	0.4	14
43	Cytomegalovirus protease targeted prodrug development. <i>Molecular Pharmaceutics</i> , 2013 , 10, 1417-24	5.6	13
42	Prediction of physical aging in controlled-release coatings: the application of the relaxation coupling model to glassy cellulose acetate. <i>Pharmaceutical Research</i> , 1991 , 8, 698-705	4.5	13
41	Unraveling the behavior of oral drug products inside the human gastrointestinal tract using the aspiration technique: History, methodology and applications. <i>European Journal of Pharmaceutical Sciences</i> , 2020 , 155, 105517	5.1	13
40	Biopharmaceutical optimization in neglected diseases for paediatric patients by applying the provisional paediatric biopharmaceutical classification system. <i>British Journal of Clinical Pharmacology</i> , 2018 , 84, 2231-2241	3.8	12
39	The effect of dosage release formulations on the pharmacokinetics of propranolol stereoisomers in humans. <i>Journal of Clinical Pharmacology</i> , 1995 , 35, 374-8	2.9	12
38	Mechanistic Basis of Cocrystal Dissolution Advantage. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 380-389	3.9	10
37	Linking the Gastrointestinal Behavior of Ibuprofen with the Systemic Exposure between and within Humans-Part 2: Fed State. <i>Molecular Pharmaceutics</i> , 2018 , 15, 5468-5478	5.6	10
36	Exploring Bioequivalence of Dexketoprofen Trometamol Drug Products with the Gastrointestinal Simulator (GIS) and Precipitation Pathways Analyses. <i>Pharmaceutics</i> , 2019 , 11,	6.4	9
35	Chemoproteomic Identification of Serine Hydrolase RBBP9 as a Valacyclovir-Activating Enzyme. <i>Molecular Pharmaceutics</i> , 2020 , 17, 1706-1714	5.6	8
34	Pulse Packet Stochastic Model for Gastric Emptying in the Fasted State: A Physiological Approach. <i>Molecular Pharmaceutics</i> , 2018 , 15, 2107-2115	5.6	8
33	Potential Development of Tumor-Targeted Oral Anti-Cancer Prodrugs: Amino Acid and Dipeptide Monoester Prodrugs of Gemcitabine. <i>Molecules</i> , 2017 , 22,	4.8	8
32	Hierarchical Mass Transfer Analysis of Drug Particle Dissolution, Highlighting the Hydrodynamics, pH, Particle Size, and Buffer Effects for the Dissolution of Ionizable and Nonionizable Drugs in a Compartmental Dissolution Vessel. <i>Molecular Pharmaceutics</i> , 2020 , 17, 3870-3884	5.6	7
31	In Vivo Predictive Dissolution and Simulation Workshop Report: Facilitating the Development of Oral Drug Formulation and the Prediction of Oral Bioperformance. <i>AAPS Journal</i> , 2018 , 20, 100	3.7	7
30	In Vitro Characterization of the Biomimetic Properties of Poly(dimethylsiloxane) To Simulate Oral Drug Absorption. <i>Molecular Pharmaceutics</i> , 2017 , 14, 4661-4674	5.6	6
29	"5RAmino acid esters of antiviral nucleosides, acyclovir, and AZT are absorbed by the intestinal PEPT1 peptide transporter,". <i>Pharmaceutical Research</i> , 1999 , 16, 175	4.5	6

28	The role of rheological properties in mucociliary transport by frog palate ciliated model. <i>Pharmaceutical Research</i> , 1994 , 11, 1785-91	4.5	6
27	Propagation Characteristics of Fasting Duodeno-Jejunal Contractions in Healthy Controls Measured by Clustered Closely-spaced Manometric Sensors. <i>Journal of Neurogastroenterology and Motility</i> , 2019 , 25, 100-112	4.4	5
26	Biphasic Dissolution as an Exploratory Method During Early Drug Product Development. <i>Pharmaceutics</i> , 2020 , 12,	6.4	4
25	A proposed pediatric biopharmaceutical classification system for medications for chronic diseases in children. <i>European Journal of Pharmaceutical Sciences</i> , 2020 , 152, 105437	5.1	4
24	The in vivo predictive dissolution for immediate release dosage of donepezil and danazol, BCS class IIc drugs, with the GIS and the USP II with biphasic dissolution apparatus. <i>Journal of Drug Delivery Science and Technology</i> , 2020 , 56, 100920	4.5	4
23	Application of the Gastrointestinal Simulator (GIS) Coupled with In Silico Modeling to Measure the Impact of Coca-Cola on the Luminal and Systemic Behavior of Loratadine (BCS Class 2b). <i>Pharmaceutics</i> , 2020 , 12,	6.4	3
22	Effect of biphenyl hydrolase-like (BPHL) gene disruption on the intestinal stability, permeability and absorption of valacyclovir in wildtype and Bphl knockout mice. <i>Biochemical Pharmacology</i> , 2018 , 156, 147-156	6	3
21	Gastrointestinal Dissolution and Absorption of Drugs. <i>Methods and Principles in Medicinal Chemistry</i> , 2003 , 189-214	0.4	3
20	Transporters in the GI Tract. <i>Methods and Principles in Medicinal Chemistry</i> , 2003 , 243-287	0.4	3
19	Measurement of fasted state gastric antral motility before and after a standard bioavailability and bioequivalence 240 mL drink of water: Validation of MRI method against concomitant perfused manometry in healthy participants. <i>PLoS ONE</i> , 2020 , 15, e0241441	3.7	3
18	Dissolution Challenges Associated with the Surface pH of Drug Particles: Integration into Mechanistic Oral Absorption Modeling.. <i>AAPS Journal</i> , 2022 , 24, 17	3.7	3
17	Mechanistic Deconvolution of Oral Absorption Model with Dynamic Gastrointestinal Fluid to Predict Regional Rate and Extent of GI Drug Dissolution. <i>AAPS Journal</i> , 2019 , 22, 3	3.7	3
16	Improved Protease-Targeting and Biopharmaceutical Properties of Novel Prodrugs of Ganciclovir. <i>Molecular Pharmaceutics</i> , 2018 , 15, 410-419	5.6	2
15	An In Vivo Predictive Dissolution Methodology (iPD Methodology) with a BCS Class IIb Drug Can Predict the In Vivo Bioequivalence Results: Etoricoxib Products. <i>Pharmaceutics</i> , 2021 , 13,	6.4	2
14	Oral product input to the GI tract: GIS an oral product performance technology. <i>Frontiers of Chemical Science and Engineering</i> , 2017 , 11, 516-520	4.5	1
13	Oral Bioavailability of Peptide and Peptidomimetic Drugs 2011 , 277-292		1
12	Functional expressions of endogenous dipeptide transporter and exogenous proton/peptide cotransporter in <i>Xenopus</i> oocytes. <i>Archives of Pharmacal Research</i> , 1995 , 18, 12-17	6.1	1
11	Improving Dissolution Behavior and Oral Absorption of Drugs with pH-Dependent Solubility Using pH Modifiers: A Physiologically Realistic Mass Transport Analysis. <i>Molecular Pharmaceutics</i> , 2021 , 18, 3326-3341	5.6	1

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9 Dissolution studies as surrogate for bioequivalence. *European Journal of Drug Metabolism and Pharmacokinetics*, **2000**, 25, 65-65 2.7

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6 Measurement of fasted state gastric antral motility before and after a standard bioavailability and bioequivalence 240 mL drink of water: Validation of MRI method against concomitant perfused manometry in healthy participants **2020**, 15, e0241441

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