# Gordon L Amidon

List of Publications by Year
in descending order



| 148 | 16,799 | 34076 52 | 14736 127 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 157 | 157 | 157 | 11261 |
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| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dissolution Challenges Associated with the Surface pH of Drug Particles: Integration into Mechanistic Oral Absorption Modeling. AAPS Journal, 2022, 24, 17. | 2.2 | 9 |
| 2 | In Vitro Predictive Dissolution Test Should Be Developed and Recommended as a Bioequivalence Standard for the Immediate-Release Solid Oral Dosage Forms of the Highly Variable Mycophenolate Mofetil. Molecular Pharmaceutics, 2022, 19, 2048-2060. | 2.3 | 5 |
| 3 | An In Vivo Predictive Dissolution Methodology (iPD Methodology) with a BCS Class IIb Drug Can Predict the In Vivo Bioequivalence Results: Etoricoxib Products. Pharmaceutics, 2021, 13, 507. | 2.0 | 7 |
| 4 | Improving Dissolution Behavior and Oral Absorption of Drugs with pH-Dependent Solubility Using pH Modifiers: A Physiologically Realistic Mass Transport Analysis. Molecular Pharmaceutics, 2021, 18, 3326-3341. | 2.3 | 13 |
| 5 | 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. Journal of Drug Delivery Science and Technology, 2020, 56, 100920. | 1.4 | 10 |
| 6 | Mechanistic Deconvolution of Oral Absorption Model with Dynamic Gastrointestinal Fluid to Predict Regional Rate and Extent of GI Drug Dissolution. AAPS Journal, 2020, 22, 3. | 2.2 | 6 |
| 7 | Unraveling the behavior of oral drug products inside the human gastrointestinal tract using the aspiration technique: History, methodology and applications. European Journal of Pharmaceutical Sciences, 2020, 155, 105517. | 1.9 | 18 |
| 8 | 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 Compendial Dissolution Vessel. Molecular Pharmaceutics, 2020, 17, 3870-3884. | 2.3 | 19 |
| 9 | Biphasic Dissolution as an Exploratory Method during Early Drug Product Development. Pharmaceutics, 2020, 12, 420. | 2.0 | 8 |
| 10 | Application of the Gastrointestinal Simulator (GIS) Coupled with In Silico Modeling to Measure the Impact of Coca-ColaÂ® on the Luminal and Systemic Behavior of Loratadine (BCS Class 2b). Pharmaceutics, 2020, 12, 566. | 2.0 | 8 |
| 11 | Chemoproteomic Identification of Serine Hydrolase RBBP9 as a Valacyclovir-Activating Enzyme. Molecular Pharmaceutics, 2020, 17, 1706-1714. | 2.3 | 9 |
| 12 | A proposed pediatric biopharmaceutical classification system for medications for chronic diseases in children. European Journal of Pharmaceutical Sciences, 2020, 152, 105437. | 1.9 | 7 |
| 13 | A Mechanistic Physiologically-Based Biopharmaceutics Modeling (PBBM) Approach to Assess the In Vivo Performance of an Orally Administered Drug Product: From IVIVC to IVIVP. Pharmaceutics, 2020, 12, 74. | 2.0 | 49 |
| 14 | 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. PLoS ONE, 2020, 15, e0241441. | 1.1 | 8 |
| 15 | Title is missing!. , 2020, 15, e0241441. | | 0 |
| 16 | Title is missing!. , 2020, 15, e0241441. | | 0 |
| 17 | Title is missing!. , 2020, 15, e0241441. | | 0 |
| 18 | Title is missing!. , 2020, 15, e0241441. | | 0 |

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| 19 | Title is missing!. , 2020, 15, e0241441. | | 0 |
| 20 | Title is missing!. , 2020, 15, e0241441. | | 0 |
| 21 | Propagation Characteristics of Fasting Duodeno-Jejunal Contractions in Healthy Controls Measured by Clustered Closely-spaced Manometric Sensors. Journal of Neurogastroenterology and Motility, 2019, 25, 100-112. | 0.8 | 5 |
| 22 | Simulated, biorelevant, clinically relevant or physiologically relevant dissolution media: The hidden role of bicarbonate buffer. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 142, 8-19. | 2.0 | 34 |
| 23 | Mass Transport Analysis of Bicarbonate Buffer: Effect of the CO<sub>2</sub>â€“H<sub>2</sub>CO<sub>3</sub> Hydrationâ€“Dehydration Kinetics in the Fluid Boundary Layer and the Apparent Effective pK<sub>a</sub> Controlling Dissolution of Acids and Bases. Molecular Pharmaceutics, 2019, 16, 2626-2635. | 2.3 | 34 |
| 24 | Exploring Bioequivalence of Dexketoprofen Trometamol Drug Products with the Gastrointestinal Simulator (GIS) and Precipitation Pathways Analyses. Pharmaceutics, 2019, 11, 122. | 2.0 | 17 |
| 25 | Measuring the Impact of Gastrointestinal Variables on the Systemic Outcome of Two Suspensions of Posaconazole by a PBPK Model. AAPS Journal, 2018, 20, 57. | 2.2 | 19 |
| 26 | Improved Protease-Targeting and Biopharmaceutical Properties of Novel Prodrugs of Ganciclovir. Molecular Pharmaceutics, 2018, 15, 410-419. | 2.3 | 4 |
| 27 | Evaluation and optimized selection of supersaturating drug delivery systems of posaconazole (BCS) Tj ETQq1 1 0.784314 rgBT /Overl<br>Journal of Pharmaceutical Sciences, 2018, 115, 258-269. | 1.9 | 43 |
| 28 | Pulse Packet Stochastic Model for Gastric Emptying in the Fasted State: A Physiological Approach. Molecular Pharmaceutics, 2018, 15, 2107-2115. | 2.3 | 11 |
| 29 | The Combination of GIS and Biphasic to Better Predict InÂVivo Dissolution of BCS Class IIb Drugs, Ketoconazole and Raloxifene. Journal of Pharmaceutical Sciences, 2018, 107, 307-316. | 1.6 | 40 |
| 30 | Mechanistic Basis of Cocrystal Dissolution Advantage. Journal of Pharmaceutical Sciences, 2018, 107, 380-389. | 1.6 | 17 |
| 31 | Linking the Gastrointestinal Behavior of Ibuprofen with the Systemic Exposure between and within Humansâ€”Part 2: Fed State. Molecular Pharmaceutics, 2018, 15, 5468-5478. | 2.3 | 12 |
| 32 | Mass Transport Analysis of the Enhanced Buffer Capacity of the Bicarbonateâ€“CO<sub>2</sub> Buffer in a Phase-Heterogenous System: Physiological and Pharmaceutical Significance. Molecular Pharmaceutics, 2018, 15, 5291-5301. | 2.3 | 23 |
| 33 | Linking the Gastrointestinal Behavior of Ibuprofen with the Systemic Exposure between and within Humansâ€”Part 1: Fasted State Conditions. Molecular Pharmaceutics, 2018, 15, 5454-5467. | 2.3 | 21 |
| 34 | In Vivo Predictive Dissolution and Simulation Workshop Report: Facilitating the Development of Oral Drug Formulation and the Prediction of Oral Bioperformance. AAPS Journal, 2018, 20, 100. | 2.2 | 7 |
| 35 | Gastric emptying and intestinal appearance of nonabsorbable drugs phenol red and paromomycin in human subjects: A multi-compartment stomach approach. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 129, 162-174. | 2.0 | 24 |
| 36 | Formulation predictive dissolution (fPD) testing to advance oral drug product development: An introduction to the US FDA funded â€˜21st Century BA/BEâ€™ project. International Journal of Pharmaceutics, 2018, 548, 120-127. | 2.6 | 41 |

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| 37 | Effect of biphenyl hydrolase-like (BPHL) gene disruption on the intestinal stability, permeability and absorption of valacyclovir in wildtype and Bphl knockout mice. Biochemical Pharmacology, 2018, 156, 147-156. | 2.0 | 4 |
| 38 | Biopharmaceutical optimization in neglected diseases for paediatric patients by applying the provisional paediatric biopharmaceutical classification system. British Journal of Clinical Pharmacology, 2018, 84, 2231-2241. | 1.1 | 18 |
| 39 | Utilization of Gastrointestinal Simulator, an in Vivo Predictive Dissolution Methodology, Coupled with Computational Approach To Forecast Oral Absorption of Dipyridamole. Molecular Pharmaceutics, 2017, 14, 1181-1189. | 2.3 | 26 |
| 40 | 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). European Journal of Pharmaceutical Sciences, 2017, 102, 126-139. | 1.9 | 44 |
| 41 | Exploring gastrointestinal variables affecting drug and formulation behavior: Methodologies, challenges and opportunities. International Journal of Pharmaceutics, 2017, 519, 79-97. | 2.6 | 81 |
| 42 | Measurement of in vivo Gastrointestinal Release and Dissolution of Three Locally Acting Mesalamine Formulations in Regions of the Human Gastrointestinal Tract. Molecular Pharmaceutics, 2017, 14, 345-358. | 2.3 | 39 |
| 43 | In Vivo Dissolution and Systemic Absorption of Immediate Release Ibuprofen in Human Gastrointestinal Tract under Fed and Fasted Conditions. Molecular Pharmaceutics, 2017, 14, 4295-4304. | 2.3 | 46 |
| 44 | Low Buffer Capacity and Alternating Motility along the Human Gastrointestinal Tract: Implications for in Vivo Dissolution and Absorption of Ionizable Drugs. Molecular Pharmaceutics, 2017, 14, 4281-4294. | 2.3 | 94 |
| 45 | Oral product input to the GI tract: GIS an oral product performance technology. Frontiers of Chemical Science and Engineering, 2017, 11, 516-520. | 2.3 | 2 |
| 46 | Mechanistic Fluid Transport Model to Estimate Gastrointestinal Fluid Volume and Its Dynamic Change Over Time. AAPS Journal, 2017, 19, 1682-1690. | 2.2 | 22 |
| 47 | In Vitro Characterization of the Biomimetic Properties of Poly(dimethylsiloxane) To Simulate Oral Drug Absorption. Molecular Pharmaceutics, 2017, 14, 4661-4674. | 2.3 | 7 |
| 48 | Magnetic Resonance Imaging Quantification of Fasted State Colonic Liquid Pockets in Healthy Humans. Molecular Pharmaceutics, 2017, 14, 2629-2638. | 2.3 | 49 |
| 49 | Potential Development of Tumor-Targeted Oral Anti-Cancer Prodrugs: Amino Acid and Dipeptide Monoester Prodrugs of Gemcitabine. Molecules, 2017, 22, 1322. | 1.7 | 15 |
| 50 | The Evaluation of InÂVitro Drug Dissolution of Commercially Available Oral Dosage Forms for Itraconazole in Gastrointestinal Simulator With Biorelevant Media. Journal of Pharmaceutical Sciences, 2016, 105, 2804-2814. | 1.6 | 48 |
| 51 | Mechanistic Analysis of Cocrystal Dissolution as a Function of pH and Micellar Solubilization. Molecular Pharmaceutics, 2016, 13, 1030-1046. | 2.3 | 36 |
| 52 | Carrier-Mediated Prodrug Uptake to Improve the Oral Bioavailability of Polar Drugs: An Application to an Oseltamivir Analogue. Journal of Pharmaceutical Sciences, 2016, 105, 925-934. | 1.6 | 21 |
| 53 | Gastrointestinal Motility Variation and Implications for Plasma Level Variation: Oral Drug Products. Molecular Pharmaceutics, 2016, 13, 557-567. | 2.3 | 34 |
| 54 | In Vitro Dissolution of Fluconazole and Dipyridamole in Gastrointestinal Simulator (GIS), Predicting in Vivo Dissolution and Drugâ€“Drug Interaction Caused by Acid-Reducing Agents. Molecular Pharmaceutics, 2015, 12, 2418-2428. | 2.3 | 53 |

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| 55 | In vitro dissolution methodology, mini-Gastrointestinal Simulator (mGIS), predicts better in vivo dissolution of a weak base drug, dasatinib. European Journal of Pharmaceutical Sciences, 2015, 76, 203-212. | 1.9 | 64 |
| 56 | In Vivo Predictive Dissolution: Comparing the Effect of Bicarbonate and Phosphate Buffer on the Dissolution of Weak Acids and Weak Bases. Journal of Pharmaceutical Sciences, 2015, 104, 2894-2904. | 1.6 | 63 |
| 57 | Substrate-Competitive Activity-Based Profiling of Ester Prodrug Activating Enzymes. Molecular Pharmaceutics, 2015, 12, 3399-3407. | 2.3 | 18 |
| 58 | In Viv o Predictive Dissolution: Transport Analysis of the CO 2 , Bicarbonate In Vivo Buffer System. Journal of Pharmaceutical Sciences, 2014, 103, 3473-3490. | 1.6 | 74 |
| 59 | Evaluation of a Three Compartment In Vitro Gastrointestinal Simulator Dissolution Apparatus to Predict In Vivo Dissolution. Journal of Pharmaceutical Sciences, 2014, 103, 3416-3422. | 1.6 | 65 |
| 60 | The Biopharmaceutics Classification System: Subclasses for in vivo predictive dissolution (IPD) methodology and IVIVC. European Journal of Pharmaceutical Sciences, 2014, 57, 152-163. | 1.9 | 258 |
| 61 | 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, Pharm Res 12, 413â€“420, 1995â€”Backstory of BCS. AAPS Journal, 2014, 16, 894-898. | 2.2 | 105 |
| 62 | Synthesis and characterization of valyloxy methoxy luciferin for the detection of valacyclovirase and peptide transporter. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4781-4783. | 1.0 | 21 |
| 63 | Quantification of Gastrointestinal Liquid Volumes and Distribution Following a 240 mL Dose of Water in the Fasted State. Molecular Pharmaceutics, 2014, 11, 3039-3047. | 2.3 | 360 |
| 64 | Bio-predictive tablet disintegration: Effect of water diffusivity, fluid flow, food composition and test conditions. European Journal of Pharmaceutical Sciences, 2014, 57, 273-279. | 1.9 | 36 |
| 65 | Comparison of the Permeability of Metoprolol and Labetalol in Rat, Mouse, and Caco-2 Cells: Use as a Reference Standard for BCS Classification. Molecular Pharmaceutics, 2013, 10, 958-966. | 2.3 | 59 |
| 66 | Cytomegalovirus Protease Targeted Prodrug Development. Molecular Pharmaceutics, 2013, 10, 1417-1424. | 2.3 | 14 |
| 67 | Mechanistic analysis of solute transport in an in vitro physiological twoâ€phase dissolution apparatus. Biopharmaceutics and Drug Disposition, 2012, 33, 378-402. | 1.1 | 77 |
| 68 | In silico prediction of drug dissolution and absorption with variation in intestinal pH for BCS class II weak acid drugs: ibuprofen and ketoprofen. Biopharmaceutics and Drug Disposition, 2012, 33, 366-377. | 1.1 | 85 |
| 69 | First-pass Metabolism of Peptide Drugs in Rat Perfused Liver. Journal of Pharmacy and Pharmacology, 2011, 50, 1013-1018. | 1.2 | 18 |
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| 71 | High-Permeability Criterion for BCS Classification: Segmental/pH Dependent Permeability Considerations. Molecular Pharmaceutics, 2010, 7, 1827-1834. | 2.3 | 94 |
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| 73 | Summary Workshop Report: Bioequivalence, Biopharmaceutics Classification System, and Beyond. AAPS Journal, 2008, 10, 373-379. | 2.2 | 55 |
| 74 | The Suitability of an in Situ Perfusion Model for Permeability Determinations:Â Utility for BCS Class I Biowaiver Requests. Molecular Pharmaceutics, 2006, 3, 686-694. | 2.3 | 134 |
| 75 | A Provisional Biopharmaceutical Classification of the Top 200 Oral Drug Products in the United States, Great Britain, Spain, and Japan. Molecular Pharmaceutics, 2006, 3, 631-643. | 2.3 | 493 |
| 76 | Solubilization and dissolution of insoluble weak acid, ketoprofen: Effects of pH combined with surfactant. European Journal of Pharmaceutical Sciences, 2006, 29, 306-314. | 1.9 | 107 |
| 77 | Nucleoside Ester Prodrug Substrate Specificity of Liver Carboxylesterase. Journal of Pharmacology and Experimental Therapeutics, 2006, 316, 572-580. | 1.3 | 40 |
| 78 | Prolidase, a Potential Enzyme Target for Melanoma:â€‰ Design of Proline-Containing Dipeptide-like Prodrugs. Molecular Pharmaceutics, 2005, 2, 37-46. | 2.3 | 37 |
| 79 | Molecular Properties of WHO Essential Drugs and Provisional Biopharmaceutical Classification. Molecular Pharmaceutics, 2004, 1, 85-96. | 2.3 | 691 |
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| 81 | Biopharmaceutics classification system: the scientific basis for biowaiver extensions. Pharmaceutical Research, 2002, 19, 921-925. | 1.7 | 460 |
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| 84 | Targeted prodrug design to optimize drug delivery. AAPS PharmSci, 2000, 2, 48-58. | 1.3 | 209 |
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| 90 | "5'-Amino acid esters of antiviral nucleosides, acyclovir, and AZT are absorbed by the intestinal PEPT1 peptide transporter,". , 1999, 16, 175-175. | | 6 |

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| 91 | A pH- and ionic strength-responsive polypeptide hydrogel: Synthesis, characterization, and preliminary protein release studies. , 1999, 47, 595-602. | | 112 |
| 92 | 5'-Amino acid esters of antiviral nucleosides, acyclovir, and AZT are absorbed by the intestinal PEPT1 peptide transporter. Pharmaceutical Research, 1998, 15, 1154-1159. | 1.7 | 274 |
| 93 | Cellular uptake mechanism of amino acid ester prodrugs in Caco-2/hPEPT1 cells overexpressing a human peptide transporter. Pharmaceutical Research, 1998, 15, 1382-1386. | 1.7 | 84 |
| 94 | Drug marker absorption in relation to pellet size, gastric motility and viscous meals in humans. Pharmaceutical Research, 1998, 15, 233-238. | 1.7 | 22 |
| 95 | Dissolution testing as a prognostic tool for oral drug absorption: immediate release dosage forms. Pharmaceutical Research, 1998, 15, 11-22. | 1.7 | 893 |
| 96 | Beta cyclodextrins enhance adenoviral-mediated gene delivery to the intestine. Pharmaceutical Research, 1998, 15, 1348-1355. | 1.7 | 66 |
| 97 | Overexpression of human intestinal oligopeptide transporter in mammalian cells via adenoviral transduction. Pharmaceutical Research, 1998, 15, 1376-1381. | 1.7 | 16 |
| 98 | 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. , 1998, 19, 169-174. | | 22 |
| 99 | Factors that Influence Stability of Recombinant Adenoviral Preparations for Human Gene Therapy. Pharmaceutical Development and Technology, 1998, 3, 373-383. | 1.1 | 67 |
| 100 | Development of a Highly Efficient Purification Process for Recombinant Adenoviral Vectors for Oral Gene Delivery. Pharmaceutical Development and Technology, 1998, 3, 365-372. | 1.1 | 32 |
| 101 | The mechanism of uptake of biodegradable microparticles in Caco-2 cells is size dependent. Pharmaceutical Research, 1997, 14, 1568-1573. | 1.7 | 753 |
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| 103 | The absence of accessible vitronectin receptors in differentiated tissue hinders adenoviral-mediated gene transfer to the intestinal epithelium in vitro. Pharmaceutical Research, 1997, 14, 1216-1222. | 1.7 | 17 |
| 104 | Steady-state pharmacokinetics of delavirdine in HIV-positive patients: Effect on erythromycin breath test *. Clinical Pharmacology and Therapeutics, 1997, 61, 531-543. | 2.3 | 63 |
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| 106 | Gastrointestinal uptake of biodegradable microparticles: effect of particle size. Pharmaceutical Research, 1996, 13, 1838-1845. | 1.7 | 819 |
| 107 | Human dipeptide transporter, hPEPT1, stably transfected into Chinese hamster ovary cells. Pharmaceutical Research, 1996, 13, 1631-1634. | 1.7 | 44 |
| 108 | The Effect of Dosage Release Formulations on the Pharmacokinetics of Propranolol Stereoisomers in Humans. Journal of Clinical Pharmacology, 1995, 35, 374-378. | 1.0 | 14 |

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| 109 | Effect of micronization on the extent of drug absorption from suspensions in humans. Archives of Pharmacal Research, 1995, 18, 427-433. | 2.7 | 27 |
| 110 | Functional expressions of endogenous dipeptide transporter and exogenous proton/peptide cotransporter inXenopus oocytes. Archives of Pharmacal Research, 1995, 18, 12-17. | 2.7 | 1 |
| 111 | A theoretical basis for a biopharmaceutic drug classification: the correlation of in vitro drug product dissolution and in vivo bioavailability. Pharmaceutical Research, 1995, 12, 413-420. | 1.7 | 4,287 |
| 112 | Gastric pH influences the appearance of double peaks in the plasma concentration-time profiles of cimetidine after oral administration in dogs. Pharmaceutical Research, 1995, 12, 780-786. | 1.7 | 32 |
| 113 | Variable gastric emptying and discontinuities in drug absorption profiles: Dependence of rates and extent of cimetidine absorption on motility phase and pH. Biopharmaceutics and Drug Disposition, 1994, 15, 719-746. | 1.1 | 44 |
| 114 | The role of rheological properties in mucociliary transport by frog palate ciliated model. Pharmaceutical Research, 1994, 11, 1785-1791. | 1.7 | 7 |
| 115 | Oral absorption of peptides: the effect of absorption site and enzyme inhibition on the systemic availability of metkephamid. Pharmaceutical Research, 1994, 11, 528-535. | 1.7 | 50 |
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| 118 | Viscoelasticity of anionic polymers and their mucociliary transport on the frog palate. Pharmaceutical Research, 1993, 10, 411-417. | 1.7 | 22 |
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| 120 | An investigation into the mechanical and transport properties of aqueous latex films: a new hypothesis for the film-forming mechanism of aqueous dispersion system. Pharmaceutical Research, 1993, 10, 405-410. | 1.7 | 31 |
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| 131 | Stereoselective systemic disposition of ibuprofen enantiomers in the dog. Pharmaceutical Research, 1991, 08, 1186-1190. | 1.7 | 20 |
| 132 | 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. Pharmaceutical Research, 1991, 08, 1500-1504. | 1.7 | 39 |
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| 146 | pH-dependent swelling and solute diffusion characteristics of poly(hydroxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (methacry | 1.7 | 126 |
| 147 | The influence of variable gastric emptying and intestinal transit rates on the plasma level curve of cimetidine; an explanation for the double peak phenomenon. Journal of Pharmacokinetics and Pharmacodynamics, 1987, 15, 529-544. | 0.6 | 183 |
| 148 | Pharmacokinetics of Alcohol Following Single Low Doses to Fasted and Nonfasted Subjects. Journal of Clinical Pharmacology, 1977, 17, 199-206. | 1.0 | 52 |