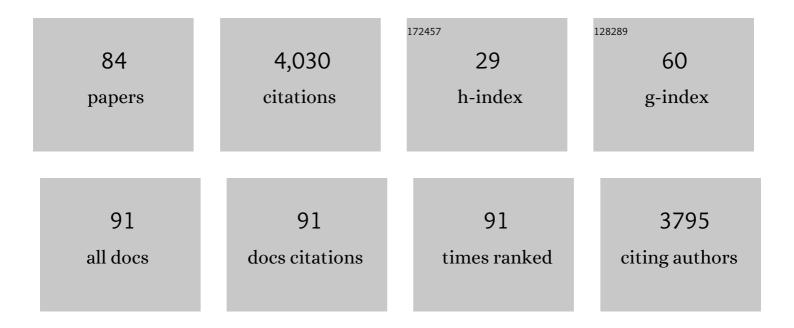
Panos Macheras

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Re-writing Oral Pharmacokinetics Using Physiologically Based Finite Time Pharmacokinetic (PBFTPK) Models. Pharmaceutical Research, 2022, 39, 691-701.	3.5	16
2	Columbus' egg: Oral drugs are absorbed in finite time. European Journal of Pharmaceutical Sciences, 2022, 176, 106265.	4.0	6
3	From Camille NÎįÏİ, to Apollonian and the Dionysian scientists. Diagnosis, 2021, .	1.9	0
4	Interpreting airborne pandemics spreading using fractal kinetics'Âprinciples. F1000Research, 2021, 10, 609.	1.6	0
5	Enhancement of Docetaxel Absorption Using Ritonavir in an Oral Milk-Based Formulation. Pharmaceutical Research, 2021, 38, 1419-1428.	3.5	2
6	Revising Pharmacokinetics of Oral Drug Absorption: Il Bioavailability-Bioequivalence Considerations. Pharmaceutical Research, 2021, 38, 1345-1356.	3.5	19
7	Re-examining digoxin bioavailability after half a century: Time for changes in the bioavailability concepts. Pharmaceutical Research, 2021, 38, 1635-1638.	3.5	9
8	Revising Pharmacokinetics of Oral Drug Absorption: I Models Based on Biopharmaceutical/Physiological and Finite Absorption Time Concepts. Pharmaceutical Research, 2020, 37, 187.	3.5	18
9	A fractal kinetics SI model can explain the dynamics of COVID-19 epidemics. PLoS ONE, 2020, 15, e0237304.	2.5	16
10	On the unphysical hypotheses in pharmacokinetics and oral drug absorption: Time to utilize instantaneous rate coefficients instead of rate constants. European Journal of Pharmaceutical Sciences, 2019, 130, 137-146.	4.0	4
11	On an Unphysical Hypothesis of Bateman Equation and its Implications for Pharmacokinetics. Pharmaceutical Research, 2019, 36, 94.	3.5	16
12	The Biopharmaceutics Classification System (BCS) and the Biopharmaceutics Drug Disposition Classification System (BDDCS): Beyond guidelines. International Journal of Pharmaceutics, 2019, 566, 264-281.	5.2	95
13	On the dilemma of fractal or fractional kinetics in drug release studies: A comparison between Weibull and Mittag-Leffler functions. International Journal of Pharmaceutics, 2018, 543, 269-273.	5.2	32
14	A reaction limited in vivo dissolution model for the study of drug absorption: Towards a new paradigm for the biopharmaceutic classification of drugs. European Journal of Pharmaceutical Sciences, 2018, 117, 98-106.	4.0	13
15	Fractional calculus in pharmacokinetics. Journal of Pharmacokinetics and Pharmacodynamics, 2018, 45, 107-125.	1.8	69
16	On the pharmacokinetics of two inhaled budesonide/formoterol combinations in asthma patients using modeling approaches. Pulmonary Pharmacology and Therapeutics, 2018, 48, 168-178.	2.6	10
17	Pharmacokinetic analysis of inhaled salmeterol in asthma patients: Evidence from two dry powder inhalers. Biopharmaceutics and Drug Disposition, 2017, 38, 407-419.	1.9	11
18	Drug Release. Interdisciplinary Applied Mathematics, 2016, , 53-82.	0.3	0

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19	Oral Drug Absorption. Interdisciplinary Applied Mathematics, 2016, , 109-158.	0.3	0
20	Modeling in Biopharmaceutics, Pharmacokinetics and Pharmacodynamics. Interdisciplinary Applied Mathematics, 2016, , .	0.3	45
21	Biopharmaceutic classification of drugs revisited. European Journal of Pharmaceutical Sciences, 2016, 95, 82-87.	4.0	8
22	Milk as a medium for pediatric formulations: Experimental findings and regulatory aspects. International Journal of Pharmaceutics, 2015, 492, 344-345.	5.2	10
23	Population pharmacokinetics of fluticasone propionate/salmeterol using two different dry powder inhalers. European Journal of Pharmaceutical Sciences, 2015, 80, 33-42.	4.0	20
24	Scientific considerations concerning the EMA change in the definition of "dose―of the BCS-based biowaiver guideline and implications for bioequivalence. International Journal of Pharmaceutics, 2015, 478, 606-609.	5.2	14
25	A non-binary biopharmaceutical classification of drugs: The ABΓ system. International Journal of Pharmaceutics, 2014, 464, 85-90.	5.2	23
26	Comment and reply on: A randomized crossover trial investigating the ease of use and preference of two dry powder inhalers in patients with asthma of chronic obstructive pulmonary disease. Expert Opinion on Drug Delivery, 2014, 11, 823-825.	5.0	3
27	A Report from the Pediatric Formulations Task Force: Perspectives on the State of Child-Friendly Oral Dosage Forms. AAPS Journal, 2013, 15, 1072-1081.	4.4	89
28	On the ubiquitous presence of fractals and fractal concepts in pharmaceutical sciences: A review. International Journal of Pharmaceutics, 2013, 456, 340-352.	5.2	53
29	Stability and physicochemical characterization of novel milk-based oral formulations. International Journal of Pharmaceutics, 2013, 444, 128-138.	5.2	21
30	Keeping a Critical Eye on the Science and the Regulation of Oral Drug Absorption: A Review. Journal of Pharmaceutical Sciences, 2013, 102, 3018-3036.	3.3	28
31	Elucidating the Role of Dose in the Biopharmaceutics Classification of Drugs: The Concepts of Critical Dose, Effective In Vivo Solubility, and Dose-Dependent BCS. Pharmaceutical Research, 2012, 29, 3188-3198.	3.5	22
32	Supersaturated dissolution data and their interpretation: the TPGS–carbamazepine model case. Journal of Pharmacy and Pharmacology, 2011, 63, 352-361.	2.4	18
33	Monte Carlo simulations and fractional kinetics considerations for the Higuchi equation. International Journal of Pharmaceutics, 2011, 418, 100-103.	5.2	13
34	The Changing Face of the Rate Concept in Biopharmaceutical Sciences: From Classical to Fractal and Finally to Fractional. Pharmaceutical Research, 2011, 28, 1229-1232.	3.5	33
35	Computationalâ€Regulatory Developments in the Prediction of Oral Drug Absorption. Molecular Informatics, 2011, 30, 112-121.	2.5	1
36	Unusual solubility behaviour of cyclosporin A in aqueous media. Journal of Pharmacy and Pharmacology, 2011, 43, 287-289.	2.4	108

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37	A commentary on fractionalization of multi-compartmental models. Journal of Pharmacokinetics and Pharmacodynamics, 2010, 37, 203-207.	1.8	76
38	Fractional kinetics in multi-compartmental systems. Journal of Pharmacokinetics and Pharmacodynamics, 2010, 37, 507-524.	1.8	86
39	Power law IVIVC: An application of fractional kinetics for drug release and absorption. European Journal of Pharmaceutical Sciences, 2010, 41, 299-304.	4.0	43
40	Novel milk-based oral formulations: Proof of concept. International Journal of Pharmaceutics, 2010, 390, 150-159.	5.2	33
41	Biopharmaceutical Classification Based on Solubility and Dissolution: A Reappraisal of Criteria for Hypothesis Models in the Light of the Experimental Observations. Basic and Clinical Pharmacology and Toxicology, 2010, 106, 168-172.	2.5	9
42	Fractional kinetics in drug absorption and disposition processes. Journal of Pharmacokinetics and Pharmacodynamics, 2009, 36, 165-178.	1.8	111
43	Effect of Cyclodextrin Complexation on the Aqueous Solubility and Solubility/Dose Ratio of Praziquantel. AAPS PharmSciTech, 2009, 10, 1444-51.	3.3	26
44	Monte Carlo simulations of drug release from matrices with periodic layers of high and low diffusivity. International Journal of Pharmaceutics, 2008, 354, 111-116.	5.2	24
45	Biopharmaceutics classification systems for new molecular entities (BCS-NMEs) and marketed drugs (BCS-MD): Theoretical basis and practical examples. International Journal of Pharmaceutics, 2008, 361, 70-77.	5.2	22
46	Monte Carlo simulations for the study of drug release from matrices with high and low diffusivity areas. International Journal of Pharmaceutics, 2007, 343, 166-172.	5.2	39
47	Advanced pharmacokinetic models based on organ clearance, circulatory, and fractal concepts. AAPS Journal, 2007, 9, E268-E283.	4.4	51
48	On the use of the Weibull function for the discernment of drug release mechanisms. International Journal of Pharmaceutics, 2006, 309, 44-50.	5.2	593
49	A century of dissolution research: From Noyes and Whitney to the Biopharmaceutics Classification System. International Journal of Pharmaceutics, 2006, 321, 1-11.	5.2	562
50	A Parenteral Econazole Formulation Using a Novel Micelle-to-Liposome Transfer Method: In Vitro Characterization and Tumor Growth Delay in a Breast Cancer Xenograft Model. Pharmaceutical Research, 2006, 23, 2575-2585.	3.5	105
51	Modeling and Monte Carlo Simulations in Oral Drug Absorption. Basic and Clinical Pharmacology and Toxicology, 2005, 96, 200-205.	2.5	17
52	Identification of Biowaivers Among Class II Drugs: Theoretical Justification and Practical Examples. Pharmaceutical Research, 2004, 21, 1567-1572.	3.5	68
53	Michaelis-Menten Kinetics under Spatially Constrained Conditions: Application to Mibefradil Pharmacokinetics. Biophysical Journal, 2004, 87, 1498-1506.	0.5	35
54	The heterogeneous course of drug transit through the body. Trends in Pharmacological Sciences, 2004, 25, 140-146.	8.7	26

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55	A reappraisal of drug release laws using Monte Carlo simulations: the prevalence of the Weibull function. Pharmaceutical Research, 2003, 20, 988-995.	3.5	177
56	Quantitative Biopharmaceutics Classification System: The Central Role of Dose/Solubility Ratio. Pharmaceutical Research, 2003, 20, 1917-1925.	3.5	143
57	The mean dissolution time depends on the dose/solubility ratio. Pharmaceutical Research, 2003, 20, 406-408.	3.5	70
58	Analysis of Case II drug transport with radial and axial release from cylinders. International Journal of Pharmaceutics, 2003, 254, 183-188.	5.2	67
59	The power law can describe the â€~entire' drug release curve from HPMC-based matrix tablets: a hypothesis. International Journal of Pharmaceutics, 2003, 255, 199-207.	5.2	84
60	Fractal kinetics in drug release from finite fractal matrices. Journal of Chemical Physics, 2003, 119, 6373-6377.	3.0	138
61	Fractal volume of drug distribution: it scales proportionally to body mass. Pharmaceutical Research, 2001, 18, 1056-1060.	3.5	19
62	Nonlinear dynamics and chaos theory: concepts and applications relevant to pharmacodynamics. Pharmaceutical Research, 2001, 18, 415-426.	3.5	45
63	A stochastic model describes the heterogeneous pharmacokinetics of cyclosporin. Journal of Pharmacokinetics and Pharmacodynamics, 2001, 28, 445-463.	1.8	12
64	Non-linear regression analysis with errors in both variables: estimation of co-operative binding parameters. Biopharmaceutics and Drug Disposition, 2000, 21, 7-14.	1.9	8
65	Ursodeoxycholic acid modulates cyclosporin A oral absorption in liver transplant recipients*. Fundamental and Clinical Pharmacology, 2000, 14, 601-609.	1.9	15
66	On the use of partial AUC as an early exposure metric. European Journal of Pharmaceutical Sciences, 2000, 10, 91-95.	4.0	8
67	On the heterogeneity of drug dissolution and release. , 2000, 17, 108-112.		84
68	An alternative method for the estimation of the terminal slope when a few data points are available. Journal of Pharmaceutical Sciences, 1999, 88, 557-560.	3.3	4
69	Heterogeneous tube model for the study of small intestinal transit flow. Pharmaceutical Research, 1999, 16, 87-91.	3.5	32
70	A heterogeneous tube model of intestinal drug absorption based on probabilistic concepts. Pharmaceutical Research, 1999, 16, 1764-1769.	3.5	34
71	Investigation of absorption kinetics by the phase plane method. , 1998, 15, 1262-1269.		4

A population growth model of dissolution. , 1997, 14, 1122-1126.

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73	Castrointestinal drug absorption: is it time to consider heterogeneity as well as homogeneity?. , 1997, 14, 842-847.		71
74	A fractal approach to heterogeneous drug distribution: calcium pharmacokinetics. Pharmaceutical Research, 1996, 13, 663-670.	3.5	47
75	An improved intercept method for the assessment of absorption rate in bioequivalence studies. Pharmaceutical Research, 1996, 13, 1755-1758.	3.5	22
76	Fractal geometry, fractal kinetics and chaos en route to biopharmaceutical sciences. European Journal of Drug Metabolism and Pharmacokinetics, 1996, 21, 77-86.	1.6	16
77	Carrier-mediated transport can obey fractal kinetics. Pharmaceutical Research, 1995, 12, 541-548.	3.5	24
78	Evaluation of different metrics as indirect measures of rate of drug absorption from extended release dosage forms at steady-state. Pharmaceutical Research, 1995, 12, 103-107.	3.5	22
79	The cutoff time point of the partial area method for assessment of rate of absorption in bioequivalence studies. Pharmaceutical Research, 1994, 11, 831-834.	3.5	26
80	Equations for the fraction of bioavailable dose remaining in the body in the one-compartment model. Biopharmaceutics and Drug Disposition, 1992, 13, 229-232.	1.9	1
81	Evaluation of controlled release formulations: Estimation of the duration of the zero-order absorption and ascertainment of absorption kinetics. Biopharmaceutics and Drug Disposition, 1991, 12, 173-187.	1.9	1
82	Bioavailability study of a freeze-dried sodium phenytoin-milk formulation. Biopharmaceutics and Drug Disposition, 1991, 12, 687-695.	1.9	16
83	Estimate of volume/flow ratio of gastrointestinal (GI) fluids in humans using pharmacokinetic data. Pharmaceutical Research, 1990, 07, 518-522.	3.5	8
84	Pharmacokinetics of acetaminophen after intramuscular administration. Biopharmaceutics and Drug Disposition, 1989, 10, 101-105.	1.9	4