

Joseph W Polli

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

6,118
citations

34
h-index

55
g-index

55
ext. papers

6,562
ext. citations

6.2
avg, IF

4.68
L-index

#	Paper	IF	Citations
51	Membrane transporters in drug development. <i>Nature Reviews Drug Discovery</i> , 2010 , 9, 215-36	64.1	2464
50	Passive permeability and P-glycoprotein-mediated efflux differentiate central nervous system (CNS) and non-CNS marketed drugs. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002 , 303, 1029-37	4.7	512
49	In vitro p-glycoprotein inhibition assays for assessment of clinical drug interaction potential of new drug candidates: a recommendation for probe substrates. <i>Drug Metabolism and Disposition</i> , 2006 , 34, 786-92	4	235
48	An unexpected synergist role of P-glycoprotein and breast cancer resistance protein on the central nervous system penetration of the tyrosine kinase inhibitor lapatinib (N-[3-chloro-4-[(3-fluorobenzyl)oxy]phenyl]-6-[5-([2-(methylsulfonyl)ethyl]amino)methyl]-2-furyl]-4-quinazolinamine; GW572016). <i>Drug Metabolism and Disposition</i> , 2009 , 37, 439-42	4	214
47	The role of efflux and uptake transporters in [N-[3-chloro-4-[(3-fluorobenzyl)oxy]phenyl]-6-[5-([2-(methylsulfonyl)ethyl]amino)methyl]-2-furyl]-4-quinazolinamine (GW572016, lapatinib) disposition and drug interactions. <i>Drug Metabolism and Disposition</i> , 2008 , 36, 695-701		
46	Role of P-glycoprotein on the CNS disposition of amprenavir (141W94), an HIV protease inhibitor. <i>Pharmaceutical Research</i> , 1999 , 16, 1206-12	4.5	188
45	Vitamin E-TPGS increases absorption flux of an HIV protease inhibitor by enhancing its solubility and permeability. <i>Pharmaceutical Research</i> , 1999 , 16, 1812-7	4.5	170
44	Lapatinib distribution in HER2 overexpressing experimental brain metastases of breast cancer. <i>Pharmaceutical Research</i> , 2012 , 29, 770-81	4.5	163
43	In vitro investigations into the roles of drug transporters and metabolizing enzymes in the disposition and drug interactions of dolutegravir, a HIV integrase inhibitor. <i>Drug Metabolism and Disposition</i> , 2013 , 41, 353-61	4	155
42	Influence of passive permeability on apparent P-glycoprotein kinetics. <i>Pharmaceutical Research</i> , 2000 , 17, 1456-60	4.5	102
41	Predicting P-glycoprotein substrates by a quantitative structure-activity relationship model. <i>Journal of Pharmaceutical Sciences</i> , 2004 , 93, 957-68	3.9	92
40	Breast cancer resistance protein (ABCG2) in clinical pharmacokinetics and drug interactions: practical recommendations for clinical victim and perpetrator drug-drug interaction study design. <i>Drug Metabolism and Disposition</i> , 2015 , 43, 490-509	4	91
39	P-glycoprotein-mediated transport of morphine in brain capillary endothelial cells. <i>Biochemical Pharmacology</i> , 1999 , 58, 951-7	6	90
38	Biopharmaceutics classification system: validation and learnings of an in vitro permeability assay. <i>Molecular Pharmaceutics</i> , 2009 , 6, 11-8	5.6	75
37	P-glycoprotein influences the brain concentrations of cetirizine (Zyrtec), a second-generation non-sedating antihistamine. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 2082-9	3.9	70
36	Expression of the calmodulin-dependent protein phosphatase, calcineurin, in rat brain: developmental patterns and the role of nigrostriatal innervation. <i>Developmental Brain Research</i> , 1991 , 63, 105-19		68
35	Central nervous system disposition and metabolism of Fosdevirine (GSK2248761), a non-nucleoside reverse transcriptase inhibitor: an LC-MS and Matrix-assisted laser desorption/ionization imaging MS investigation into central nervous system toxicity. <i>Chemical Research in Toxicology</i> , 2013 , 26, 241-51	4	62

34	Multiple mechanisms are involved in the biliary excretion of acetaminophen sulfate in the rat: role of Mrp2 and Bcrp1. <i>Drug Metabolism and Disposition</i> , 2005 , 33, 1158-65	4	61
33	PhRMA white paper on ADME pharmacogenomics. <i>Journal of Clinical Pharmacology</i> , 2008 , 48, 849-89	2.9	58
32	Steady-state brain concentrations of antihistamines in rats: interplay of membrane permeability, P-glycoprotein efflux and plasma protein binding. <i>Pharmacology</i> , 2004 , 72, 92-8	2.3	58
31	Toxicity and toxicokinetics of metformin in rats. <i>Toxicology and Applied Pharmacology</i> , 2010 , 243, 340-7	4.6	57
30	The elementary mass action rate constants of P-gp transport for a confluent monolayer of MDCKII-hMDR1 cells. <i>Biophysical Journal</i> , 2005 , 88, 715-38	2.9	57
29	Exact kinetic analysis of passive transport across a polarized confluent MDCK cell monolayer modeled as a single barrier. <i>Journal of Pharmaceutical Sciences</i> , 2004 , 93, 2108-23	3.9	54
28	Midazolam exhibits characteristics of a highly permeable P-glycoprotein substrate. <i>Pharmaceutical Research</i> , 2003 , 20, 757-64	4.5	53
27	Disease-Associated Changes in Drug Transporters May Impact the Pharmacokinetics and/or Toxicity of Drugs: A White Paper From the International Transporter Consortium. <i>Clinical Pharmacology and Therapeutics</i> , 2018 , 104, 900-915	6.1	53
26	Kinetic identification of membrane transporters that assist P-glycoprotein-mediated transport of digoxin and loperamide through a confluent monolayer of MDCKII-hMDR1 cells. <i>Drug Metabolism and Disposition</i> , 2008 , 36, 452-60	4	51
25	The steady-state Michaelis-Menten analysis of P-glycoprotein mediated transport through a confluent cell monolayer cannot predict the correct Michaelis constant Km. <i>Pharmaceutical Research</i> , 2005 , 22, 1667-77	4.5	48
24	Oral sulfasalazine as a clinical BCRP probe substrate: pharmacokinetic effects of genetic variation (C421A) and pantoprazole coadministration. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 1046-62	3.9	44
23	Understanding the transport properties of metabolites: case studies and considerations for drug development. <i>Drug Metabolism and Disposition</i> , 2014 , 42, 650-64	4	42
22	Prospective CYP2D6 genotyping as an exclusion criterion for enrollment of a phase III clinical trial. <i>Pharmacogenetics and Genomics</i> , 2000 , 10, 583-90		39
21	Evaluation of drug interactions of GSK1292263 (a GPR119 agonist) with statins: from in vitro data to clinical study design. <i>Xenobiotica</i> , 2013 , 43, 498-508	2	38
20	The ABCG2 C421A polymorphism does not affect oral nitrofurantoin pharmacokinetics in healthy Chinese male subjects. <i>British Journal of Clinical Pharmacology</i> , 2008 , 66, 233-9	3.8	37
19	Use of cassette dosing in sandwich-cultured rat and human hepatocytes to identify drugs that inhibit bile acid transport. <i>Toxicology in Vitro</i> , 2010 , 24, 297-309	3.6	34
18	First human dose-escalation study with remogliflozin etabonate, a selective inhibitor of the sodium-glucose transporter 2 (SGLT2), in healthy subjects and in subjects with type 2 diabetes mellitus. <i>BMC Pharmacology & Toxicology</i> , 2013 , 14, 26	2.6	32
17	Drug interaction profile of the HIV integrase inhibitor cabotegravir: assessment from in vitro studies and a clinical investigation with midazolam. <i>Xenobiotica</i> , 2016 , 46, 445-56	2	31

16	The systemic exposure of an N-methyl-D-aspartate receptor antagonist is limited in mice by the P-glycoprotein and breast cancer resistance protein efflux transporters. <i>Drug Metabolism and Disposition</i> , 2004 , 32, 722-6	4	28
15	Developmental expression of calmodulin-dependent cyclic nucleotide phosphodiesterase in rat brain. <i>Developmental Brain Research</i> , 1990 , 53, 253-63		27
14	Safety, pharmacokinetics and pharmacodynamics of remogliflozin etabonate, a novel SGLT2 inhibitor, and metformin when co-administered in subjects with type 2 diabetes mellitus. <i>BMC Pharmacology & Toxicology</i> , 2013 , 14, 25	2.6	26
13	If the KI is defined by the free energy of binding to P-glycoprotein, which kinetic parameters define the IC50 for the Madin-Darby canine kidney II cell line overexpressing human multidrug resistance 1 confluent cell monolayer?. <i>Drug Metabolism and Disposition</i> , 2010 , 38, 260-9	4	26
12	Assessment of the drug interaction risk for remogliflozin etabonate, a sodium-dependent glucose cotransporter-2 inhibitor: evidence from in vitro, human mass balance, and ketoconazole interaction studies. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 2090-101	4	24
11	P-Glycoprotein (P-gp) expressed in a confluent monolayer of hMDR1-MDCKII cells has more than one efflux pathway with cooperative binding sites. <i>Biochemistry</i> , 2006 , 45, 15505-19	3.2	24
10	In vitro absorption and secretory quotients: practical criteria derived from a study of 331 compounds to assess for the impact of P-glycoprotein-mediated efflux on drug candidates. <i>Journal of Pharmaceutical Sciences</i> , 2004 , 93, 2567-72	3.9	17
9	[53] Identification of calmodulin-binding proteins. <i>Methods in Enzymology</i> , 1990 , 184, 451-467	1.7	13
8	Developmental expression of neuronal calmodulin-binding proteins in rat brain. <i>Developmental Brain Research</i> , 1990 , 53, 62-70		9
7	Expression of calmodulin-dependent enzymes in developing rat striatum is not affected by perturbation of dopaminergic systems. <i>Synapse</i> , 1991 , 9, 136-43	2.4	6
6	Expression of calmodulin-dependent phosphodiesterase, calmodulin-dependent protein phosphatase, and other calmodulin-binding proteins in human SMS-KCNR neuroblastoma cells. <i>Journal of Neurochemistry</i> , 1989 , 52, 1438-48	6	6
5	Assessment of Remogliflozin Etabonate, a Sodium-Dependent Glucose Co-Transporter-2 Inhibitor, as a Perpetrator of Clinical Drug Interactions: A Study on Drug Transporters and Metabolic Enzymes. <i>Journal of Diabetes & Metabolism</i> , 2012 , 03,	0	6
4	Response from the International Transporter Consortium. <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 75-76	4.1	4
3	Mechanistic Basis of Cabotegravir-Glucuronide Disposition in Humans. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019 , 370, 269-277	4.7	3
2	ADME Pharmacogenomics in Drug Development 2013 , 13-37		3
1	Hepatobiliary Disposition of Atovaquone: A Case of Mechanistically Unusual Biliary Clearance. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018 , 366, 37-45	4.7	1