

Lars Kuepfer

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.

58

papers

2,532

citations

26

h-index

50

g-index

64

ext. papers

3,075

ext. citations

5.9

avg, IF

4.9

L-index

#	Paper	IF	Citations
58	Systematic evaluation of objective functions for predicting intracellular fluxes in Escherichia coli. <i>Molecular Systems Biology</i> , 2007 , 3, 119	12.2	526
57	Large-scale 13C-flux analysis reveals mechanistic principles of metabolic network robustness to null mutations in yeast. <i>Genome Biology</i> , 2005 , 6, R49	18.3	249
56	Metabolic functions of duplicate genes in Saccharomyces cerevisiae. <i>Genome Research</i> , 2005 , 15, 1421-30	10.7	184
55	Ensemble modeling for analysis of cell signaling dynamics. <i>Nature Biotechnology</i> , 2007 , 25, 1001-6	44.5	171
54	Applied Concepts in PBPK Modeling: How to Build a PBPK/PD Model. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2016 , 5, 516-531	4.5	139
53	A computational systems biology software platform for multiscale modeling and simulation: integrating whole-body physiology, disease biology, and molecular reaction networks. <i>Frontiers in Physiology</i> , 2011 , 2, 4	4.6	136
52	Integrating cellular metabolism into a multiscale whole-body model. <i>PLoS Computational Biology</i> , 2012 , 8, e1002750	5	88
51	A systematic evaluation of the use of physiologically based pharmacokinetic modeling for cross-species extrapolation. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 191-206	3.9	63
50	Using expression data for quantification of active processes in physiologically based pharmacokinetic modeling. <i>Drug Metabolism and Disposition</i> , 2012 , 40, 892-901	4	63
49	Enabling multiscale modeling in systems medicine. <i>Genome Medicine</i> , 2014 , 6, 21	14.4	61
48	Model-guided identification of a therapeutic strategy to reduce hyperammonemia in liver diseases. <i>Journal of Hepatology</i> , 2016 , 64, 860-71	13.4	58
47	Prediction of human drug-induced liver injury (DILI) in relation to oral doses and blood concentrations. <i>Archives of Toxicology</i> , 2019 , 93, 1609-1637	5.8	53
46	Bile Microinfarcts in Cholestasis Are Initiated by Rupture of the Apical Hepatocyte Membrane and Cause Shunting of Bile to Sinusoidal Blood. <i>Hepatology</i> , 2019 , 69, 666-683	11.2	46
45	A generic whole body physiologically based pharmacokinetic model for therapeutic proteins in PK-Sim. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2018 , 45, 235-257	2.7	39
44	Whither systems medicine?. <i>Experimental and Molecular Medicine</i> , 2018 , 50, e453	12.8	37
43	Efficient classification of complete parameter regions based on semidefinite programming. <i>BMC Bioinformatics</i> , 2007 , 8, 12	3.6	36
42	Spatio-temporal simulation of first pass drug perfusion in the liver. <i>PLoS Computational Biology</i> , 2014 , 10, e1003499	5	35

41	Using Bayesian-PBPK modeling for assessment of inter-individual variability and subgroup stratification. <i>In Silico Pharmacology</i> , 2013 , 1, 6	4.3	33
40	A mechanistic, model-based approach to safety assessment in clinical development. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2012 , 1, e13	4.5	32
39	Representative Sinusoids for Hepatic Four-Scale Pharmacokinetics Simulations. <i>PLoS ONE</i> , 2015 , 10, e0133653	3.6	31
38	A Physiologically Based Pharmacokinetic Model of Isoniazid and Its Application in Individualizing Tuberculosis Chemotherapy. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 6134-45	5.9	31
37	Bayesian Population Physiologically-Based Pharmacokinetic (PBPK) Approach for a Physiologically Realistic Characterization of Interindividual Variability in Clinically Relevant Populations. <i>PLoS ONE</i> , 2015 , 10, e0139423	3.7	30
36	Evaluation of the efficacy and safety of rivaroxaban using a computer model for blood coagulation. <i>PLoS ONE</i> , 2011 , 6, e17626	3.7	29
35	Spatio-temporal visualization of the distribution of acetaminophen as well as its metabolites and adducts in mouse livers by MALDI MSI. <i>Archives of Toxicology</i> , 2018 , 92, 2963-2977	5.8	28
34	Metabolic flux distributions: genetic information, computational predictions, and experimental validation. <i>Applied Microbiology and Biotechnology</i> , 2010 , 86, 1243-55	5.7	27
33	Zonated quantification of steatosis in an entire mouse liver. <i>Computers in Biology and Medicine</i> , 2016 , 73, 108-18	7	26
32	In vivo imaging of systemic transport and elimination of xenobiotics and endogenous molecules in mice. <i>Archives of Toxicology</i> , 2017 , 91, 1335-1352	5.8	24
31	Physiologically-based modelling in mice suggests an aggravated loss of clearance capacity after toxic liver damage. <i>Scientific Reports</i> , 2017 , 7, 6224	4.9	23
30	Bringing in vitro analysis closer to in vivo: Studying doxorubicin toxicity and associated mechanisms in 3D human microtissues with PBPK-based dose modelling. <i>Toxicology Letters</i> , 2018 , 294, 184-192	4.4	20
29	Integration of genome-scale metabolic networks into whole-body PBPK models shows phenotype-specific cases of drug-induced metabolic perturbation. <i>Npj Systems Biology and Applications</i> , 2018 , 4, 10	5	17
28	A model-based assay design to reproduce in vivo patterns of acute drug-induced toxicity. <i>Archives of Toxicology</i> , 2018 , 92, 553-555	5.8	17
27	Model-based contextualization of in vitro toxicity data quantitatively predicts in vivo drug response in patients. <i>Archives of Toxicology</i> , 2017 , 91, 865-883	5.8	14
26	Multiscale mechanistic modeling in pharmaceutical research and development. <i>Advances in Experimental Medicine and Biology</i> , 2012 , 736, 543-61	3.6	14
25	Using quantitative systems pharmacology to evaluate the drug efficacy of COX-2 and 5-LOX inhibitors in therapeutic situations. <i>Npj Systems Biology and Applications</i> , 2018 , 4, 28	5	11
24	Clinical translation in the virtual liver network. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2014 , 3, e127	4.5	10

23	Development of a physiologically based computational kidney model to describe the renal excretion of hydrophilic agents in rats. <i>Frontiers in Physiology</i> , 2012 , 3, 494	4.6	10
22	Translational learning from clinical studies predicts drug pharmacokinetics across patient populations. <i>Npj Systems Biology and Applications</i> , 2017 , 3, 11	5	8
21	A Comparative Analysis of Drug-Induced Hepatotoxicity in Clinically Relevant Situations. <i>PLoS Computational Biology</i> , 2017 , 13, e1005280	5	8
20	Network integration and modelling of dynamic drug responses at multi-omics levels. <i>Communications Biology</i> , 2020 , 3, 573	6.7	7
19	Quantitative systems pharmacology of interferon alpha administration: A multi-scale approach. <i>PLoS ONE</i> , 2019 , 14, e0209587	3.7	6
18	A multiscale, model-based analysis of the multi-tissue interplay underlying blood glucose regulation in type I diabetes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1117-1121	0.9	6
17	Multiscale modeling reveals inhibitory and stimulatory effects of caffeine on acetaminophen-induced toxicity in humans. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2017 , 6, 136-146	4.5	5
16	Systems Medicine in Pharmaceutical Research and Development. <i>Methods in Molecular Biology</i> , 2016 , 1386, 87-104	1.4	5
15	A Physiology-Based Model of Human Bile Acid Metabolism for Predicting Bile Acid Tissue Levels After Drug Administration in Healthy Subjects and BRIC Type 2 Patients. <i>Frontiers in Physiology</i> , 2019 , 10, 1192	4.6	4
14	Modeling and Simulation of In Vivo Drug Effects. <i>Handbook of Experimental Pharmacology</i> , 2016 , 232, 313-29	3.2	4
13	A workflow to build PBTK models for novel species. <i>Archives of Toxicology</i> , 2020 , 94, 3847-3860	5.8	4
12	Modeling approaches for hepatic spatial heterogeneity in pharmacokinetic simulations. <i>Drug Discovery Today: Disease Models</i> , 2016 , 22, 35-43	1.3	3
11	Subcellular spatio-temporal intravital kinetics of aflatoxin B and ochratoxin A in liver and kidney. <i>Archives of Toxicology</i> , 2021 , 95, 2163-2177	5.8	3
10	Computational Models for Clinical Applications in Personalized Medicine-Guidelines and Recommendations for Data Integration and Model Validation.. <i>Journal of Personalized Medicine</i> , 2022 , 12,	3.6	2
9	Data-driven personalization of a physiologically based pharmacokinetic model for caffeine: A systematic assessment. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2021 , 10, 782-793	4.5	2
8	Towards knowledge-driven cross-species extrapolation. <i>Drug Discovery Today: Disease Models</i> , 2016 , 22, 21-26	1.3	2
7	Early prediction of decompensation (EPOD) Score - non-invasive determination of liver cirrhosis decompensation risk.. <i>Liver International</i> , 2022 ,	7.9	1
6	Stoichiometric modelling of microbial metabolism. <i>Methods in Molecular Biology</i> , 2014 , 1191, 3-18	1.4	1

5	PK-Sim □ for Modeling Oral Drug Delivery of Modified-Release Formulations 2022 , 375-389		1
4	Algorithmic surveillance of ICU patients with acute respiratory distress syndrome (ASIC): protocol for a multicentre stepped-wedge cluster randomised quality improvement strategy. <i>BMJ Open</i> , 2021 , 11, e045589	3	0
3	A Model-Based Workflow to Benchmark the Clinical Cholestasis Risk of Drugs. <i>Clinical Pharmacology and Therapeutics</i> , 2021 , 110, 1293-1301	6.1	0
2	Modellierung metabolischer Netzwerke im menschlichen Körper. <i>BioSpektrum</i> , 2014 , 20, 39-41	0.1	
1	PBPK Modelling of Intracellular Drug Delivery Through Active and Passive Transport Processes. <i>Fundamental Biomedical Technologies</i> , 2016 , 363-374		