## Laurent Simon

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Partitioning of β-glucosidase from Trichoderma reesei in poly(ethylene glycol) and potassium phosphate aqueous two-phase systems: Influence of pH and temperature. Biochemical Engineering Journal, 2006, 30, 104-108.	1.8	48
2	Modelling of dissolving microneedles for transdermal drug delivery: Theoretical and experimental aspects. European Journal of Pharmaceutical Sciences, 2015, 68, 137-143.	1.9	38
3	Probabilistic neural networks using Bayesian decision strategies and a modified Gompertz model for growth phase classification in the batch culture of Bacillus subtilis. Biochemical Engineering Journal, 2001, 7, 41-48.	1.8	31
4	Timely drug delivery from controlled-release devices: Dynamic analysis and novel design concepts. Mathematical Biosciences, 2009, 217, 151-158.	0.9	30
5	Data-Based Modeling and Analysis of Bioprocesses: Some Real Experiences. Biotechnology Progress, 2003, 19, 1591-1605.	1.3	29
6	Control of starvation-induced apoptosis in Chinese hamster ovary cell cultures. Biotechnology and Bioengineering, 2002, 78, 645-657.	1.7	28
7	Neural network-based prediction and optimization of estradiol release from ethylene–vinyl acetate membranes. Computers and Chemical Engineering, 2004, 28, 2407-2419.	2.0	26
8	Effects of Iontophoresis and Chemical Enhancers on the Transport of Lidocaine and Nicotine Across the Oral Mucosa. Pharmaceutical Research, 2012, 29, 961-971.	1.7	24
9	A parametric study of iontophoretic transdermal drug-delivery systems. Journal of Membrane Science, 2006, 278, 124-132.	4.1	20
10	Transdermal Delivery of Sumatriptan Succinate Using lontophoresis and Dissolving Microneedles. Journal of Pharmaceutical Sciences, 2019, 108, 3649-3656.	1.6	20
11	PREDICTION OF EQUILIBRIUM PHASE COMPOSITIONS AND $\hat{1}^2$ -GLUCOSIDASE PARTITION COEFFICIENT IN AQUEOUS TWO-PHASE SYSTEMS. Chemical Engineering Communications, 2007, 194, 117-128.	1.5	16
12	Dynamics and control of percutaneous drug absorption in the presence of epidermal turnover. Journal of Pharmaceutical Sciences, 2009, 98, 187-204.	1.6	16
13	Modeling and design of transdermal drug delivery patches containing an external heating device. Computers and Chemical Engineering, 2011, 35, 1152-1163.	2.0	16
14	Two-dimensional transport analysis of transdermal drug absorption with a non-perfect sink boundary condition at the skin-capillary interface. Mathematical Biosciences, 2013, 244, 58-67.	0.9	16
15	Nitration Kinetics of Cellulose Fibers Derived from Wood Pulp in Mixed Acids. Industrial & Engineering Chemistry Research, 2018, 57, 1883-1893.	1.8	16
16	TWO-DIMENSIONAL SOLUTION AND ANALYSIS OF A CYLINDRICAL MATRIX DEVICE WITH A CIRCULAR RELEASE AREA. Chemical Engineering Communications, 2013, 200, 115-138.	1.5	14
17	Modeling continuous aqueous two-phase systems for control purposes. Journal of Chromatography A, 2004, 1043, 135-147.	1.8	13
18	Chemical reaction modeling of industrial scale nitrocellulose production for military applications. AICHE Journal, 2020, 66, e16234.	1.8	13

LAURENT SIMON

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19	Flux tracking in drug delivery. Applied Mathematical Modelling, 2011, 35, 4684-4696.	2.2	12
20	Analysis of heat-aided membrane-controlled drug release from a process control perspective. International Journal of Heat and Mass Transfer, 2007, 50, 2425-2433.	2.5	11
21	Molecular Transport in Viscoelastic Materials: Mechanistic Properties and Chemical Affinities. SIAM Journal on Applied Mathematics, 2014, 74, 1598-1614.	0.8	11
22	Application of orthogonal collocation and regression techniques for recovering parameters of a two-pathway transdermal drug-delivery model. Computers and Chemical Engineering, 2007, 31, 107-120.	2.0	10
23	An integrated biophysical model for predicting the clinical pharmacokinetics of transdermally delivered compounds. European Journal of Pharmaceutical Sciences, 2021, 167, 105924.	1.9	10
24	A Computational Procedure for Assessing the Dynamic Performance of Diffusion-Controlled Transdermal Delivery Devices. Pharmaceutics, 2011, 3, 485-496.	2.0	9
25	Transport mechanisms in oral transmucosal drug delivery: Implications for pain management. Mathematical Biosciences, 2011, 229, 93-100.	0.9	7
26	Observing Biomass Concentration in a Fixed-Bed Bioreactor. Chemical Engineering Communications, 2005, 192, 272-285.	1.5	6
27	Optimal intravenous bolus-infusion drug-dosage regimen based on two-compartment pharmacokinetic models. Computers and Chemical Engineering, 2009, 33, 1212-1219.	2.0	6
28	A FIRST-ORDER TIME CONSTANT ESTIMATION FOR NONLINEAR DIFFUSION PROBLEMS. Chemical Engineering Communications, 2014, 201, 719-736.	1.5	6
29	APPLICATION OF A DISSOLUTION-DIFFUSION MODEL TO THE RELEASE OF 5-FLUOROURACIL FROM POLYMER MICROSPHERES. Chemical Engineering Communications, 2012, 199, 587-599.	1.5	5
30	Prediction of in-vivo iontophoretic drug release data from in-vitro experiments–insights from modeling. Mathematical Biosciences, 2015, 270, 106-114.	0.9	5
31	A three-dimensional semi-analytical solution for predicting drug release through the orifice of a spherical device. International Journal of Pharmaceutics, 2016, 509, 477-482.	2.6	5
32	On the effusion time of drugs from the open pore of a spherical vesicle. Physica A: Statistical Mechanics and Its Applications, 2016, 451, 366-372.	1.2	5
33	Dynamics of Dissolution and Diffusion-Controlled Drug Release Systems. Current Drug Delivery, 2011, 8, 144-151.	0.8	5
34	Graphical process design tools for iontophoretic transdermal drug-delivery devices. Computer Methods and Programs in Biomedicine, 2012, 107, 447-455.	2.6	4
35	Time constant for the dermal absorption of semivolatile organic compounds from the gas phase of indoor air. International Journal of Heat and Mass Transfer, 2019, 144, 118687.	2.5	4
36	Effects of epidermal turnover on the dynamics of percutaneous drug absorption. Mathematical Biosciences, 2011, 229, 16-21.	0.9	3

LAURENT SIMON

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37	Controlled drug release from a spheroidal matrix. Physica A: Statistical Mechanics and Its Applications, 2019, 518, 30-37.	1.2	3
38	Design of Skin Penetration Enhancers Using Replacement Methods for the Selection of the Molecular Descriptors. Pharmaceutics, 2012, 4, 343-353.	2.0	2
39	The dynamics of shrinking and expanding drug-loaded microspheres: A semi-empirical approach. European Journal of Pharmaceutical Sciences, 2014, 58, 55-62.	1.9	2
40	Two-Dimensional Description of Absorption in Humans after Dermal Exposure to Volatile Organic Compounds. Chemical Engineering Communications, 2017, 204, 698-704.	1.5	2
41	CdTe growth model by close spaced sublimation. , 2016, , .		1
42	An effective time-constant algorithm for drug transport to capillaries and surrounding tissues. Computers in Biology and Medicine, 2017, 89, 24-30.	3.9	1
43	Transient analysis of drug delivery from a toroidal membrane: Applications for medicated vaginal rings. European Journal of Pharmaceutical Sciences, 2020, 141, 105114.	1.9	1
44	An Analytical Solution for the Concentration Profile of a Sublation Process. Separation Science and Technology, 1996, 31, 1019-1024.	1.3	0
45	Three-dimensional analyses of a perforated cylindrical drug delivery device. International Journal of Pharmaceutics, 2015, 481, 64-70.	2.6	0
46	Dynamic analysis and performance evaluation of the BIAcore surface plasmon resonance biosensor. Proceedings of SPIE, 2015, , .	0.8	0
47	The development of a peak-time criterion for designing controlled-release devices. European Journal of Pharmaceutical Sciences, 2016, 91, 64-73.	1.9	0
48	Dynamics of an electrochemical biosensor for the detection of toxic substances in water. , 2016, , .		0
49	A laplace transform-based technique for solving multiscale and multidomain problems: Application to a countercurrent hemodialyzer model. Computers in Biology and Medicine, 2017, 87, 230-235.	3.9	0
50	Analytical and Numerical Methods in Determining the Combined Effects of Iontophoresis and Chemical Penetration Enhancers. , 2017, , 391-398.		0
51	The Choice of a Performance Indicator of Release in Transdermal Drug Delivery Systems. Lecture Notes in Applied and Computational Mechanics, 2018, , 49-64.	2.0	0