Ashlee N Ford Versypt

List of Publications by Year
in descending order

33	874	932766 10	580395 25
papers	citations	h-index	g-index

37	37	37	1490
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mathematical modeling of the effects of Wntâ€10b on bone metabolism. AIChE Journal, 2022, 68, .	1.8	3
2	Multiscale modeling in disease. Current Opinion in Systems Biology, 2021, 27, 100340.	1.3	9
3	Mathematical Modeling of the Gutâ€“Bone Axis and Implications of Butyrate Treatment on Osteoimmunology. Industrial & Engineering Chemistry Research, 2021, 60, 17814-17825.	1.8	7
4	A hybrid discreteâ€“continuous model of metastatic cancer cell migration through a remodeling extracellular matrix. AIChE Journal, 2019, 65, e16671.	1.8	14
5	A Glucose-Dependent Pharmacokinetic/ Pharmacodynamic Model of ACE Inhibition in Kidney Cells. Processes, 2019, 7, 131.	1.3	4
6	Social Buffering of Pesticides in Bumblebees: Agent-Based Modeling of the Effects of Colony Size and Neonicotinoid Exposure on Behavior Within Nests. Frontiers in Ecology and Evolution, 2019, 7, .	1.1	20
7	SBMLtoODEpy: A software program for converting SBML models into ODE models in Python. Journal of Open Source Software, 2019, 4, 1643.	2.0	4
8	Mathematical Model for Glucose Dependence of the Local Reninâ€“Angiotensin System in Podocytes. Bulletin of Mathematical Biology, 2018, 80, 880-905.	0.9	6
9	A review of mathematical modeling and simulation of controlled-release fertilizers. Journal of Controlled Release, 2018, 271, 45-54.	4.8	123
10	Neonicotinoid exposure disrupts bumblebee nest behavior, social networks, and thermoregulation. Science, 2018, 362, 683-686.	6.0	178
11	Mathematical Modeling of Metastatic Cancer Migration through a Remodeling Extracellular Matrix. Processes, 2018, 6, 58.	1.3	16
12	BeeNestABM: An open-source agent-based model of spatiotemporal distribution of bumblebees in nests. Journal of Open Source Software, 2018, 3, 718.	2.0	7
13	Building a MATLAB Graphical User Interface to Solve Ordinary Differential Equations as a Final Project for an Interdisciplinary Elective Course on Numerical Computing. Journal of Computational Science Education, 2018, 9, 19-28.	0.3	1
14	A pharmacokinetic/pharmacodynamic model of ACE inhibition of the renin-angiotensin system for normal and impaired renal function. Computers and Chemical Engineering, 2017, 104, 311-322.	2.0	9
15	Mathematical Modeling of Tuberculosis Granuloma Activation. Processes, 2017, 5, 79.	1.3	8
16	ACEInhibPKPD: An open-source MATLAB app for a pharmacokinetic/pharmacodynamic model of ACE inhibition. Journal of Open Source Software, 2017, 2, 340.	2.0	0
17	Derivation of an Analytical Solution to a Reaction-Diffusion Model for Autocatalytic Degradation and Erosion in Polymer Microspheres. PLoS ONE, 2015, 10, e0135506.	1.1	15
18	Control systems technology in the advanced manufacturing of biologic drugs. , 2015, , .		6

#	Article	IF	Citations
19	Bifurcation study of blood flow control in the kidney. Mathematical Biosciences, 2015, 263, 169-179.	0.9	10
20	Modeling Blood Flow Control in the Kidney. The IMA Volumes in Mathematics and Its Applications, 2015, , 55-73.	0.5	1
21	Analysis of finite difference discretization schemes for diffusion in spheres with variable diffusivity. Computers and Chemical Engineering, 2014, 71, 241-252.	2.0	33
22	Nonlinear Model-Based Control of Thin-Film Drying for Continuous Pharmaceutical Manufacturing. Industrial & Engineering Chemistry Research, 2014, 53, 7447-7460.	1.8	20
23	Mathematical modeling of drug delivery from autocatalytically degradable PLGA microspheres â€" A review. Journal of Controlled Release, 2013, 165, 29-37.	4.8	264
24	Optimal control of oneâ€dimensional cellular uptake in tissue engineering. Optimal Control Applications and Methods, 2013, 34, 680-695.	1.3	8
25	Towards achieving a flattop crystal size distribution by continuous seeding and controlled growth. Chemical Engineering Science, 2012, 77, 2-9.	1.9	41
26	Multi-Scale Modeling of PLGA Microparticle Drug Delivery Systems. Computer Aided Chemical Engineering, 2011, 29, 1475-1479.	0.3	9
27	Symposium on Emerging Topics in Control and Modeling: Biomedical Systems [Conference Reports]. IEEE Control Systems, 2010, 30, 132-134.	1.0	1
28	Optimal control of cellular uptake in tissue engineering. , 2008, , .		11
29	Flow around Surface-Attached Carbon Nanotubes. Industrial & Engineering Chemistry Research, 2006, 45, 1797-1804.	1.8	8
30	An Interdisciplinary Elective Course to Build Computational Skills for Mathematical Modeling in Science and Engineering. , 0, , .		0
31	Self-Reflection Assignments for Evaluating Non-Technical Skills and Setting Goals for Professional Development. , 0, , .		0
32	Clean Water through Chemical Engineering: Introducing K-12 Students to ChE Using Filtration. , 0, , .		0
33	A Pharmacokinetic Simulation-Based Module to Introduce Mass Balances and Chemical Engineering Design Concepts to Engineering Freshmen. , 0, , .		0