

# Ashlee N Ford Versypt

## List of Publications by Year in descending order

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33  
papers

874  
citations

933447  
10  
h-index

580821  
25  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1490  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical modeling of drug delivery from autocatalytically degradable PLGA microspheres – A review. <i>Journal of Controlled Release</i> , 2013, 165, 29-37.	9.9	264
2	Neonicotinoid exposure disrupts bumblebee nest behavior, social networks, and thermoregulation. <i>Science</i> , 2018, 362, 683-686.	12.6	178
3	A review of mathematical modeling and simulation of controlled-release fertilizers. <i>Journal of Controlled Release</i> , 2018, 271, 45-54.	9.9	123
4	Towards achieving a flattop crystal size distribution by continuous seeding and controlled growth. <i>Chemical Engineering Science</i> , 2012, 77, 2-9.	3.8	41
5	Analysis of finite difference discretization schemes for diffusion in spheres with variable diffusivity. <i>Computers and Chemical Engineering</i> , 2014, 71, 241-252.	3.8	33
6	Nonlinear Model-Based Control of Thin-Film Drying for Continuous Pharmaceutical Manufacturing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 7447-7460.	3.7	20
7	Social Buffering of Pesticides in Bumblebees: Agent-Based Modeling of the Effects of Colony Size and Neonicotinoid Exposure on Behavior Within Nests. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	20
8	Mathematical Modeling of Metastatic Cancer Migration through a Remodeling Extracellular Matrix. <i>Processes</i> , 2018, 6, 58.	2.8	16
9	Derivation of an Analytical Solution to a Reaction-Diffusion Model for Autocatalytic Degradation and Erosion in Polymer Microspheres. <i>PLoS ONE</i> , 2015, 10, e0135506.	2.5	15
10	A hybrid discrete–continuous model of metastatic cancer cell migration through a remodeling extracellular matrix. <i>AIChE Journal</i> , 2019, 65, e16671.	3.6	14
11	Optimal control of cellular uptake in tissue engineering. , 2008, , .		11
12	Bifurcation study of blood flow control in the kidney. <i>Mathematical Biosciences</i> , 2015, 263, 169-179.	1.9	10
13	Multi-Scale Modeling of PLGA Microparticle Drug Delivery Systems. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1475-1479.	0.5	9
14	A pharmacokinetic/pharmacodynamic model of ACE inhibition of the renin-angiotensin system for normal and impaired renal function. <i>Computers and Chemical Engineering</i> , 2017, 104, 311-322.	3.8	9
15	Multiscale modeling in disease. <i>Current Opinion in Systems Biology</i> , 2021, 27, 100340.	2.6	9
16	Flow around Surface-Attached Carbon Nanotubes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 1797-1804.	3.7	8
17	Optimal control of one-dimensional cellular uptake in tissue engineering. <i>Optimal Control Applications and Methods</i> , 2013, 34, 680-695.	2.1	8
18	Mathematical Modeling of Tuberculosis Granuloma Activation. <i>Processes</i> , 2017, 5, 79.	2.8	8

#	ARTICLE	IF	CITATIONS
19	BeeNestABM: An open-source agent-based model of spatiotemporal distribution of bumblebees in nests. Journal of Open Source Software, 2018, 3, 718.	4.6	7
20	Mathematical Modeling of the Gutâ€‘Bone Axis and Implications of Butyrate Treatment on Osteoimmunology. Industrial & Engineering Chemistry Research, 2021, 60, 17814-17825.	3.7	7
21	Control systems technology in the advanced manufacturing of biologic drugs. , 2015, , .		6
22	Mathematical Model for Glucose Dependence of the Local Reninâ€‘Angiotensin System in Podocytes. Bulletin of Mathematical Biology, 2018, 80, 880-905.	1.9	6
23	A Glucose-Dependent Pharmacokinetic/ Pharmacodynamic Model of ACE Inhibition in Kidney Cells. Processes, 2019, 7, 131.	2.8	4
24	SBMLtoODEpy: A software program for converting SBML models into ODE models in Python. Journal of Open Source Software, 2019, 4, 1643.	4.6	4
25	Mathematical modeling of the effects of Wntâ€‘10b on bone metabolism. AIChE Journal, 2022, 68, .	3.6	3
26	Symposium on Emerging Topics in Control and Modeling: Biomedical Systems [Conference Reports]. IEEE Control Systems, 2010, 30, 132-134.	0.8	1
27	Modeling Blood Flow Control in the Kidney. The IMA Volumes in Mathematics and Its Applications, 2015, , 55-73.	0.5	1
28	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
29	ACEInhibPKPD: An open-source MATLAB app for a pharmacokinetic/pharmacodynamic model of ACE inhibition. Journal of Open Source Software, 2017, 2, 340.	4.6	0
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