

Angelika Manhart

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

391
citations

933447

10
h-index

888059

17
g-index

21
all docs

21
docs citations

21
times ranked

530
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic modelling of colonies of myxobacteria. <i>Kinetic and Related Models</i> , 2021, 14, 1.	0.9	5
2	Mathematical modeling accurately predicts the dynamics and scaling of nuclear growth in discrete cytoplasmic volumes. <i>Journal of Theoretical Biology</i> , 2021, 533, 110936.	1.7	1
3	Large-Scale Dynamics of Self-propelled Particles Moving Through Obstacles: Model Derivation and Pattern Formation. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 129.	1.9	6
4	Reverse-engineering forces responsible for dynamic clustering and spreading of multiple nuclei in developing muscle cells. <i>Molecular Biology of the Cell</i> , 2020, 31, 1802-1814.	2.1	3
5	Centering and symmetry breaking in confined contracting actomyosin networks. <i>ELife</i> , 2020, 9, .	6.0	29
6	Nuclear Scaling Is Coordinated among Individual Nuclei in Multinucleated Muscle Fibers. <i>Developmental Cell</i> , 2019, 49, 48-62.e3.	7.0	52
7	Analyzing collective motion with machine learning and topology. <i>Chaos</i> , 2019, 29, 123125.	2.5	31
8	Counter-propagating wave patterns in a swarm model with memory. <i>Journal of Mathematical Biology</i> , 2019, 78, 655-682.	1.9	2
9	Quantitative regulation of the dynamic steady state of actin networks. <i>ELife</i> , 2019, 8, .	6.0	16
10	Intracellular Fluid Mechanics: Coupling Cytoplasmic Flow with Active Cytoskeletal Gel. <i>Annual Review of Fluid Mechanics</i> , 2018, 50, 347-370.	25.0	76
11	Mechanical positioning of multiple nuclei in muscle cells. <i>PLoS Computational Biology</i> , 2018, 14, e1006208.	3.2	35
12	An age-structured continuum model for myxobacteria. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018, 28, 1737-1770.	3.3	16
13	Mathematical modeling of Myosin induced bistability of Lamellipodial fragments. <i>Journal of Mathematical Biology</i> , 2017, 74, 1-22.	1.9	5
14	Existence of and decay to equilibrium of the filament end density along the leading edge of the lamellipodium. <i>Journal of Mathematical Biology</i> , 2017, 74, 169-193.	1.9	2
15	Numerical Treatment of the Filament-Based Lamellipodium Model (FBLM). <i>Contributions in Mathematical and Computational Sciences</i> , 2017, , 141-159.	0.3	5
16	A continuum model for nematic alignment of self-propelled particles. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 1295-1327.	0.9	10
17	Agent-based modeling: case study in cleavage furrow models. <i>Molecular Biology of the Cell</i> , 2016, 27, 3379-3384.	2.1	16
18	An extended Filament Based Lamellipodium Model produces various moving cell shapes in the presence of chemotactic signals. <i>Journal of Theoretical Biology</i> , 2015, 382, 244-258.	1.7	24

#	ARTICLE	IF	CITATIONS
19	Large-scale mitochondrial DNA analysis in Southeast Asia reveals evolutionary effects of cultural isolation in the multi-ethnic population of Myanmar. BMC Evolutionary Biology, 2014, 14, 17.	3.2	56