

# Alison E Patteson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4312892/publications.pdf>

Version: 2024-02-01

26  
papers

1,063  
citations

623574

14  
h-index

642610

23  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1385  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vimentin protects cells against nuclear rupture and DNA damage during migration. <i>Journal of Cell Biology</i> , 2019, 218, 4079-4092.	2.3	155
2	Coherent heteroepitaxy of Bi <sub>2</sub> Se <sub>3</sub> on GaAs (111)B. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	132
3	Emergence of tissue-like mechanics from fibrous networks confined by close-packed cells. <i>Nature</i> , 2019, 573, 96-101.	13.7	118
4	Active colloids in complex fluids. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 21, 86-96.	3.4	101
5	Particle diffusion in active fluids is non-monotonic in size. <i>Soft Matter</i> , 2016, 12, 2365-2372.	1.2	75
6	Loss of Vimentin Enhances Cell Motility through Small Confining Spaces. <i>Small</i> , 2019, 15, e1903180.	5.2	59
7	Mechanical and Non-Mechanical Functions of Filamentous and Non-Filamentous Vimentin. <i>BioEssays</i> , 2020, 42, e2000078.	1.2	55
8	The propagation of active-passive interfaces in bacterial swarms. <i>Nature Communications</i> , 2018, 9, 5373.	5.8	51
9	Extracellular Vimentin as a Target Against SARS-CoV-2 Host Cell Invasion. <i>Small</i> , 2022, 18, e2105640.	5.2	41
10	A tissue-engineered human trabecular meshwork hydrogel for advanced glaucoma disease modeling. <i>Experimental Eye Research</i> , 2021, 205, 108472.	1.2	34
11	Vimentin tunes cell migration on collagen by controlling $\beta$ 1 integrin activation and clustering. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	30
12	The vimentin cytoskeleton: when polymer physics meets cell biology. <i>Physical Biology</i> , 2021, 18, 011001.	0.8	26
13	Vimentin Intermediate Filaments Mediate Cell Morphology on Viscoelastic Substrates. <i>ACS Applied Bio Materials</i> , 2022, 5, 552-561.	2.3	21
14	Unique Role of Vimentin Networks in Compression Stiffening of Cells and Protection of Nuclei from Compressive Stress. <i>Nano Letters</i> , 2022, 22, 4725-4732.	4.5	21
15	Dynamic Nuclear Structure Emerges from Chromatin Cross-Links and Motors. <i>Physical Review Letters</i> , 2021, 126, 158101.	2.9	20
16	Quenching active swarms: effects of light exposure on collective motility in swarming <i>Serratia marcescens</i> . <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180960.	1.5	19
17	Measuring material relaxation and creep recovery in a microfluidic device. <i>Lab on A Chip</i> , 2013, 13, 1850.	3.1	16
18	Cell-induced confinement effects in soft tissue mechanics. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	15

#	ARTICLE	IF	CITATIONS
19	Spreading rates of bacterial colonies depend on substrate stiffness and permeability. , 2022, 1, .		12
20	The role of vimentinâ€“nuclear interactions in persistent cell motility through confined spaces. New Journal of Physics, 2021, 23, 093042.	1.2	10
21	Rab11 endosomes and Pericentrin coordinate centrosome movement during pre-abscission in vivo. Life Science Alliance, 2022, 5, e202201362.	1.3	7
22	Materials science and mechanosensitivity of living matter. Applied Physics Reviews, 2022, 9, 011320.	5.5	4
23	A data-driven statistical description for the hydrodynamics of active matter. New Journal of Physics, 2021, 23, 103004.	1.2	3
24	Bacterial activity hinders particle sedimentation. Soft Matter, 2021, 17, 4151-4160.	1.2	2
25	BioEssays 11/2020. BioEssays, 2020, 42, 2070113.	1.2	0
26	Cell nuclei as cytoplasmic rheometers. Biophysical Journal, 2021, 120, 1535-1536.	0.2	0