Alison E Patteson

List of Publications by Year
in descending order

26 papers	1,063 citations	623734 14 h-index	642732 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. Journal of Cell Biology, 2019, 218, 4079-4092.	5.2	155
2	Coherent heteroepitaxy of Bi2Se3 on GaAs (111)B. Applied Physics Letters, 2010, 97, .	3.3	132
3	Emergence of tissue-like mechanics from fibrous networks confined by close-packed cells. Nature, 2019, 573, 96-101.	27.8	118
4	Active colloids in complex fluids. Current Opinion in Colloid and Interface Science, 2016, 21, 86-96.	7.4	101
5	Particle diffusion in active fluids is non-monotonic in size. Soft Matter, 2016, 12, 2365-2372.	2.7	75
6	Loss of Vimentin Enhances Cell Motility through Small Confining Spaces. Small, 2019, 15, e1903180.	10.0	59
7	Mechanical and Nonâ€Mechanical Functions of Filamentous and Nonâ€Filamentous Vimentin. BioEssays, 2020, 42, e2000078.	2.5	55
8	The propagation of active-passive interfaces in bacterial swarms. Nature Communications, 2018, 9, 5373.	12.8	51
9	Extracellular Vimentin as a Target Against SARSâ€CoVâ€2 Host Cell Invasion. Small, 2022, 18, e2105640.	10.0	41
10	A tissue-engineered human trabecular meshwork hydrogel for advanced glaucoma disease modeling. Experimental Eye Research, 2021, 205, 108472.	2.6	34
11	Vimentin tunes cell migration on collagen by controlling Î²1 integrin activation and clustering. Journal of Cell Science, 2021, 134, .	2.0	30
12	The vimentin cytoskeleton: when polymer physics meets cell biology. Physical Biology, 2021, 18, 011001.	1.8	26
13	Vimentin Intermediate Filaments Mediate Cell Morphology on Viscoelastic Substrates. ACS Applied Bio Materials, 2022, 5, 552-561.	4.6	21
14	Unique Role of Vimentin Networks in Compression Stiffening of Cells and Protection of Nuclei from Compressive Stress. Nano Letters, 2022, 22, 4725-4732.	9.1	21
15	Dynamic Nuclear Structure Emerges from Chromatin Cross-Links and Motors. Physical Review Letters, 2021, 126, 158101.	7.8	20
16	Quenching active swarms: effects of light exposure on collective motility in swarming Serratia marcescens. Journal of the Royal Society Interface, 2019, 16, 20180960.	3.4	19
17	Measuring material relaxation and creep recovery in a microfluidic device. Lab on A Chip, 2013, 13, 1850.	6.0	16
18	Cell-induced confinement effects in soft tissue mechanics. Journal of Applied Physics, 2021, 129, .	2.5	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.	2.9	10
21	Rab11 endosomes and Pericentrin coordinate centrosome movement during pre-abscission in vivo. Life Science Alliance, 2022, 5, e202201362.	2.8	7
22	Materials science and mechanosensitivity of living matter. Applied Physics Reviews, 2022, 9, 011320.	11.3	4
23	A data-driven statistical description for the hydrodynamics of active matter. New Journal of Physics, 2021, 23, 103004.	2.9	3
24	Bacterial activity hinders particle sedimentation. Soft Matter, 2021, 17, 4151-4160.	2.7	2
25	BioEssays 11/2020. BioEssays, 2020, 42, 2070113.	2.5	0
26	Cell nuclei as cytoplasmic rheometers. Biophysical Journal, 2021, 120, 1535-1536.	0.5	0