Ryan J Petrie

List of Publications by Year
in descending order

31 papers	3,495 citations	331670 21 h-index	501196 28 g-index
43 all docs	43 docs citations	43 times ranked	5319 citing authors

#	Article	IF	Citations
1	The matrix in focus: new directions in extracellular matrix research from the 2021 ASMB hybrid meeting. Biology Open, 2022, 11, .	1.2	0
2	Push or pull: how cytoskeletal crosstalk facilitates nuclear movement through 3D environments. Physical Biology, 2022, 19, 021003.	1.8	4
3	Visualizing Cell Motility in Mouse Ear Explants. Current Protocols, 2022, 2, e434.	2.9	0
4	Regulation of extracellular matrix assembly and structure by hybrid M1/M2 macrophages. Biomaterials, 2021, 269, 120667.	11.4	106
5	Cell Biology: Resolving How DNA Is Damaged during 3D Migration. Current Biology, 2021, 31, R209-R211.	3.9	0
6	Lymphocyte egress signal sphingosine-1-phosphate promotes ERM-guided, bleb-based migration. Journal of Cell Biology, 2021, 220, .	5.2	20
7	Myosin II and Arp2/3 cross-talk governs intracellular hydraulic pressure and lamellipodia formation. Molecular Biology of the Cell, 2021, 32, 579-589.	2.1	8
8	Cytoplasmic pressure maintains epithelial integrity and inhibits cell motility. Physical Biology, 2021, 18, 066003.	1.8	5
9	The nucleus acts as a ruler tailoring cell responses to spatial constraints. Science, 2020, 370, .	12.6	299
10	YAP and TAZ regulate cell volume. Journal of Cell Biology, 2019, 218, 3472-3488.	5.2	39
11	Hydraulic control of mammalian embryo size and cell fate. Nature, 2019, 571, 112-116.	27.8	216
12	Myosin II governs intracellular pressure and traction by distinct tropomyosin-dependent mechanisms. Molecular Biology of the Cell, 2019, 30, 1170-1181.	2.1	27
13	Pannexin 3 ER Ca2+ channel gating is regulated by phosphorylation at the Serine 68 residue in osteoblast differentiation. Scientific Reports, 2019, 9, 18759.	3.3	17
14	Intracellular Pressure: A Driver of Cell Morphology and Movement. International Review of Cell and Molecular Biology, 2018, 337, 185-211.	3.2	15
15	Activating the nuclear piston mechanism of 3D migration in tumor cells. Journal of Cell Biology, 2017, 216, 93-100.	5.2	86
16	Multiple mechanisms of 3D migration: the origins of plasticity. Current Opinion in Cell Biology, 2016, 42, 7-12.	5.4	114
17	Dense fibrillar collagen is a potent inducer of invadopodia via a specific signaling network. Journal of Cell Biology, 2015, 208, 331-350.	5.2	107
18	Fibroblasts Lead the Way: A Unified View of 3D Cell Motility. Trends in Cell Biology, 2015, 25, 666-674.	7.9	79

#	Article	IF	Citations
19	Direct Measurement of Intracellular Pressure. Current Protocols in Cell Biology, 2014, 63, 12.9.1-9.	2.3	24
20	The Î²-actin mRNA zipcode regulates epithelial adherens junction assembly but not maintenance. Rna, 2014, 20, 689-701.	3.5	18
21	Generation of compartmentalized pressure by a nuclear piston governs cell motility in a 3D matrix. Science, 2014, 345, 1062-1065.	12.6	296
22	Dimensions in cell migration. Current Opinion in Cell Biology, 2013, 25, 642-649.	5.4	171
23	At the leading edge of three-dimensional cell migration. Journal of Cell Science, 2012, 125, 5917-5926.	2.0	259
24	Nonpolarized signaling reveals two distinct modes of 3D cell migration. Journal of Cell Biology, 2012, 197, 439-455.	5.2	325
25	Rab35 regulates neurite outgrowth and cell shape. FEBS Letters, 2009, 583, 1096-1101.	2.8	86
26	Spatial and temporal activation of the small GTPases RhoA and Rac1 by the netrin-1 receptor UNC5a during neurite outgrowth. Cellular Signalling, 2009, 21, 1961-1973.	3.6	45
27	Compartmentalized DCC signalling is distinct from DCC localized to lipid rafts. Biology of the Cell, 2009, 101, 77-90.	2.0	26
28	Random versus directionally persistent cell migration. Nature Reviews Molecular Cell Biology, 2009, 10, 538-549.	37.0	835
29	The CD20 Calcium Channel Is Localized to Microvilli and Constitutively Associated with Membrane Rafts. Journal of Biological Chemistry, 2004, 279, 19893-19901.	3.4	59
30	Colocalization of the B Cell Receptor and CD20 Followed by Activation-Dependent Dissociation in Distinct Lipid Rafts. Journal of Immunology, 2002, 169, 2886-2891.	0.8	77
31	Transient Translocation of the B Cell Receptor and Src Homology 2 Domain-Containing Inositol Phosphatase to Lipid Rafts: Evidence Toward a Role in Calcium Regulation. Journal of Immunology, 2000, 165, 1220-1227.	0.8	130