

# Alexander B Verkhovsky

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

2,936  
citations

394421

19  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2543  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the Actin-Myosin II System in Fish Epidermal Keratocytes: Mechanism of Cell Body Translocation. <i>Journal of Cell Biology</i> , 1997, 139, 397-415.	5.2	640
2	Self-polarization and directional motility of cytoplasm. <i>Current Biology</i> , 1999, 9, 11-S1.	3.9	470
3	Comparative Dynamics of Retrograde Actin Flow and Focal Adhesions: Formation of Nascent Adhesions Triggers Transition from Fast to Slow Flow. <i>PLoS ONE</i> , 2008, 3, e3234.	2.5	223
4	Force transmission in migrating cells. <i>Journal of Cell Biology</i> , 2010, 188, 287-297.	5.2	207
5	Assembly and mechanosensory function of focal adhesions: experiments and models. <i>European Journal of Cell Biology</i> , 2006, 85, 165-173.	3.6	202
6	Actin-Myosin Viscoelastic Flow in the Keratocyte Lamellipod. <i>Biophysical Journal</i> , 2009, 97, 1853-1863.	0.5	164
7	Gradient of Rigidity in the Lamellipodia of Migrating Cells Revealed by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2005, 89, 667-675.	0.5	158
8	Improved Procedures for Electron Microscopic Visualization of the Cytoskeleton of Cultured Cells. <i>Journal of Structural Biology</i> , 1995, 115, 290-303.	2.8	137
9	Tracking Retrograde Flow in Keratocytes: News from the Front. <i>Molecular Biology of the Cell</i> , 2005, 16, 1223-1231.	2.1	132
10	Orientational Order of the Lamellipodial Actin Network as Demonstrated in Living Motile Cells. <i>Molecular Biology of the Cell</i> , 2003, 14, 4667-4675.	2.1	91
11	Comparative Maps of Motion and Assembly of Filamentous Actin and Myosin II in Migrating Cells. <i>Molecular Biology of the Cell</i> , 2007, 18, 3723-3732.	2.1	89
12	Role of Focal Adhesions and Mechanical Stresses in the Formation and Progression of the Lamellum Interface. <i>Biophysical Journal</i> , 2009, 97, 1254-1264.	0.5	69
13	Weak Force Stalls Protrusion at the Leading Edge of the Lamellipodium. <i>Biophysical Journal</i> , 2006, 90, 1810-1820.	0.5	57
14	Analysis of actin filament network organization in lamellipodia by comparing experimental and simulated images. <i>Journal of Cell Science</i> , 2007, 120, 1491-1500.	2.0	46
15	Direct visualization of bipolar myosin filaments in stress fibers of cultured fibroblasts. <i>Cytoskeleton</i> , 1989, 12, 150-156.	4.4	42
16	Dynamic measurement of the height and volume of migrating cells by a novel fluorescence microscopy technique. <i>Lab on A Chip</i> , 2011, 11, 3855.	6.0	42
17	Cell Shape Dynamics Reveal Balance of Elasticity and Contractility in Peripheral Arcs. <i>Biophysical Journal</i> , 2015, 108, 2437-2447.	0.5	40
18	Contact Angle at the Leading Edge Controls Cell Protrusion Rate. <i>Current Biology</i> , 2014, 24, 1126-1132.	3.9	33

#	ARTICLE	IF	CITATIONS
19	Minimal model for spontaneous cell polarization and edge activity in oscillating, rotating and migrating cells. <i>Nature Physics</i> , 2016, 12, 367-373.	16.7	30
20	The mechanisms of spatial and temporal patterning of cell-edge dynamics. <i>Current Opinion in Cell Biology</i> , 2015, 36, 113-121.	5.4	19
21	Microsurgery-aided in-situ force probing reveals extensibility and viscoelastic properties of individual stress fibers. <i>Scientific Reports</i> , 2016, 6, 23722.	3.3	15
22	Traction Forces Control Cell-Edge Dynamics and Mediate Distance Sensitivity during Cell Polarization. <i>Current Biology</i> , 2020, 30, 1762-1769.e5.	3.9	11
23	Ultra-soft cantilevers and 3-D micro-patterned substrates for contractile bundle tension measurement in living cells. <i>Lab on A Chip</i> , 2014, 14, 2539-2547.	6.0	9
24	Cell Polarization: Mechanical Switch for a Chemical Reaction. <i>Current Biology</i> , 2012, 22, R58-R61.	3.9	5
25	Ultra-High Resolution Cryo-SEM and Specimen Preparation for Cytoskeleton.. <i>Acta Histochemica Et Cytochemica</i> , 1994, 27, 507-509.	1.6	2
26	Cellâ€™Matrix Adhesion: Slip and Immobilization under Force. <i>Current Biology</i> , 2010, 20, R669-R671.	3.9	2
27	Three-Dimensional Forces for Two-Dimensional Motion. <i>Biophysical Journal</i> , 2015, 108, 781-782.	0.5	1