Miguel Vicente-Manzanares

List of Publications by Year
in descending order

78 papers	8,285 citations	71102 41 h-index	76900 74 g-index
171 all docs	171 docs citations	171 times ranked	11129 citing authors

#	Article	IF	Citations
1	Cancer cell development, migratory response, and the role of the tumor microenvironment in invasion and metastasis. , 2022, , 245-270.		0
2	The interface between biochemical signaling and cell mechanics shapes T lymphocyte migration and activation. European Journal of Cell Biology, 2022, 101, 151236.	3.6	8
3	The Crossroads between RAS and RHO Signaling Pathways in Cellular Transformation, Motility and Contraction. Genes, 2021, 12, 819.	2.4	35
4	Nonmuscle Myosin II Regulation Directs Its Multiple Roles in Cell Migration and Division. Annual Review of Cell and Developmental Biology, 2021, 37, 285-310.	9.4	27
5	An Integrated View of Virus-Triggered Cellular Plasticity Using Boolean Networks. Cells, 2021, 10, 2863.	4.1	1
6	Targeting L-type amino acid transporter 1 in innate and adaptive T cells efficiently controls skin inflammation. Journal of Allergy and Clinical Immunology, 2020, 145, 199-214.e11.	2.9	47
7	Linking the Landscape of MYH9-Related Diseases to the Molecular Mechanisms that Control Non-Muscle Myosin II-A Function in Cells. Cells, 2020, 9, 1458.	4.1	32
8	Tyrosine Phosphorylation of the Myosin Regulatory Light Chain Controls Non-muscle Myosin II Assembly and Function in Migrating Cells. Current Biology, 2020, 30, 2446-2458.e6.	3.9	18
9	Phosphatidylinositol Monophosphates Regulate Optimal Vav1 Signaling Output. Cells, 2019, 8, 1649.	4.1	8
10	<scp>L</scp>â€selectin expression is regulated by CXCL8â€induced reactive oxygen species produced during human neutrophil rolling. European Journal of Immunology, 2019, 49, 386-397.	2.9	12
11	Adhesive Interactions Delineate the Topography of the Immune Synapse. Frontiers in Cell and Developmental Biology, 2018, 6, 149.	3.7	17
12	Priming of dendritic cells by DNA-containing extracellular vesicles from activated T cells through antigen-driven contacts. Nature Communications, 2018, 9, 2658.	12.8	242
13	Targeting the integrin interactome in human disease. Current Opinion in Cell Biology, 2018, 55, 17-23.	5.4	34
14	Nonmuscle Myosin II. , 2018, , 3541-3553.		3
15	Dasatinib Reversibly Disrupts Endothelial Vascular Integrity by Increasing Non-Muscle Myosin II Contractility in a ROCK-Dependent Manner. Clinical Cancer Research, 2017, 23, 6697-6707.	7.0	41
16	Wavelet Imaging on Multiple Scales (WIMS) reveals focal adhesion distributions, dynamics and coupling between actomyosin bundle stability. PLoS ONE, 2017, 12, e0186058.	2.5	4
17	Full L1-regularized Traction Force Microscopy over whole cells. BMC Bioinformatics, 2017, 18, 365.	2.6	10
18	Microfilament-coordinated adhesion dynamics drives single cell migration and shapes whole tissues. F1000Research, 2017, 6, 160.	1.6	8

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19	CD69 controls the uptake of L-tryptophan through LAT1-CD98 and AhR-dependent secretion of IL-22 in psoriasis. Nature Immunology, 2016, 17, 985-996.	14.5	98
20	An actomyosin-like cytoskeleton in the cyanobiont (Nosctoc sp.) of Peltigera canina. Phytochemistry Letters, 2016, 16, 249-256.	1.2	3
21	Concerning immune synapses: a spatiotemporal timeline. F1000Research, 2016, 5, 418.	1.6	35
22	Activation of the orphan receptor GPR55 by lysophosphatidylinositol promotes metastasis in triple-negative breast cancer. Oncotarget, 2016, 7, 47565-47575.	1.8	40
23	Nonmuscle Myosin II. , 2016, , 1-13.		0
24	Molecular control of non-muscle myosin II assembly. Oncotarget, 2016, 7, 5092-5093.	1.8	6
25	Free Form Deformationâ€“Based Image Registration Improves Accuracy of Traction Force Microscopy. PLoS ONE, 2015, 10, e0144184.	2.5	23
26	A cyanobacterial Î²-actin-like protein, responsible for lichenized Nostoc sp. motility towards a fungal lectin. Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	5
27	Organizing Polarized Delivery of Exosomes at Synapses. Traffic, 2015, 16, 327-337.	2.7	64
28	Fibroblast Migration in 3D is Controlled by Haptotaxis in a Non-muscle Myosin II-Dependent Manner. Annals of Biomedical Engineering, 2015, 43, 3025-3039.	2.5	41
29	A regulatory motif in nonmuscle myosin II-B regulates its role in migratory frontâ€“back polarity. Journal of Cell Biology, 2015, 209, 23-32.	5.2	46
30	Unleashing Mesenchymal Chemotaxis. Developmental Cell, 2014, 31, 669-670.	7.0	1
31	Myosin II in mechanotransduction: master and commander of cell migration, morphogenesis, and cancer. Cellular and Molecular Life Sciences, 2014, 71, 479-492.	5.4	101
32	Cell Migration: Cooperation between Myosin II Isoforms in Durotaxis. Current Biology, 2013, 23, R28-R29.	3.9	6
33	STICCS Reveals Matrix-Dependent Adhesion Slipping and Gripping inÂMigrating Cells. Biophysical Journal, 2012, 103, 1672-1682.	0.5	44
34	The Integrin-Ligand Interaction Regulates Adhesion and Migration through a Molecular Clutch. PLoS ONE, 2012, 7, e40202.	2.5	47
35	Cell Migration: An Overview. Methods in Molecular Biology, 2011, 769, 1-24.	0.9	109
36	Adhesion dynamics at a glance. Journal of Cell Science, 2011, 124, 3923-3927.	2.0	95

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37	High Glucose-Mediated Oxidative Stress Impairs Cell Migration. PLoS ONE, 2011, 6, e22865.	2.5	118
38	Myosin IIB Activity and Phosphorylation Status Determines Dendritic Spine and Post-Synaptic Density Morphology. PLoS ONE, 2011, 6, e24149.	2.5	71
39	Fungal lectin of Peltigera canina induces chemotropism of compatible Nostoc cells by constriction-relaxation pulses of cyanobiont cytoskeleton. Plant Signaling and Behavior, 2011, 6, 1525-1536.	2.4	33
40	Myosin IIA/IIB restrict adhesive and protrusive signaling to generate frontâ€“back polarity in migrating cells. Journal of Cell Biology, 2011, 193, 381-396.	5.2	132
41	Myosin light chain mono- and di-phosphorylation differentially regulate adhesion and polarity in migrating cells. Biochemical and Biophysical Research Communications, 2010, 402, 537-542.	2.1	53
42	Integrins in cell migration - the actin connection. Journal of Cell Science, 2009, 122, 1473-1473.	2.0	26
43	Non-muscle myosin II takes centre stage in cell adhesion and migration. Nature Reviews Molecular Cell Biology, 2009, 10, 778-790.	37.0	1,634
44	Integrins in cell migration â€“ the actin connection. Journal of Cell Science, 2009, 122, 199-206.	2.0	374
45	Dendritic Spines: Similarities with Protrusions and Adhesions in Migrating Cells. The Open Neuroscience Journal, 2009, 3, 87-96.	0.8	7
46	Actin and Î±-actinin orchestrate the assembly and maturation of nascent adhesions in a myosin II motor-independent manner. Nature Cell Biology, 2008, 10, 1039-1050.	10.3	691
47	Segregation and activation of myosin IIB creates a rear in migrating cells. Journal of Cell Biology, 2008, 183, 543-554.	5.2	193
48	Regulation of lamellipodial persistence, adhesion turnover, and motility in macrophages by focal adhesion kinase. Journal of Cell Biology, 2007, 179, 1275-1287.	5.2	153
49	Regulation of protrusion, adhesion dynamics, and polarity by myosins IIA and IIB in migrating cells. Journal of Cell Biology, 2007, 176, 1073-1073.	5.2	1
50	Regulation of protrusion, adhesion dynamics, and polarity by myosins IIA and IIB in migrating cells. Journal of Cell Biology, 2007, 176, 573-580.	5.2	358
51	Lymphocyte Chemotaxis Is Regulated by Histone Deacetylase 6, Independently of Its Deacetylase Activity. Molecular Biology of the Cell, 2006, 17, 3435-3445.	2.1	79
52	Paxillin phosphorylation at Ser273 localizes a GIT1â€“PIXâ€“PAK complex and regulates adhesion and protrusion dynamics. Journal of Cell Biology, 2006, 173, 587-589.	5.2	258
53	Role of Fyn in the Rearrangement of Tubulin Cytoskeleton Induced through TCR. Journal of Immunology, 2006, 176, 4201-4207.	0.8	55
54	Control of lymphocyte shape and the chemotactic response by the GTP exchange factor Vav. Blood, 2005, 105, 3026-3034.	1.4	65

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55	Synaptic Clusters of MHC Class II Molecules Induced on DCs by Adhesion Moleculeâ€“mediated Initial T-Cell Scanning. Molecular Biology of the Cell, 2005, 16, 3314-3322.	2.1	65
56	Cell migration at a glance. Journal of Cell Science, 2005, 118, 4917-4919.	2.0	362
57	Measurement of the Levels of Polymerized Actin (F-Actin) in Chemokine-Stimulated Lymphocytes and GFP-Coupled cDNA Transfected Lymphoid Cells by Flow Cytometry. , 2004, 239, 53-68.		11
58	Interactive protrusive structures during leukocyte adhesion and transendothelial migration. Frontiers in Bioscience - Landmark, 2004, 9, 1849.	3.0	38
59	Signaling through the Leukocyte Integrin LFA-1 in T Cells Induces a Transient Activation of Rac-1 That Is Regulated by Vav and PI3K/Akt-1. Journal of Biological Chemistry, 2004, 279, 16194-16205.	3.4	58
60	F-actin-dependent Translocation of the Rap1 GDP/GTP Exchange Factor RasGRP2. Journal of Biological Chemistry, 2004, 279, 20435-20446.	3.4	50
61	Caveolae Are a Novel Pathway for Membrane-Type 1 Matrix Metalloproteinase Traffic in Human Endothelial Cells. Molecular Biology of the Cell, 2004, 15, 678-687.	2.1	163
62	Role of the cytoskeleton during leukocyte responses. Nature Reviews Immunology, 2004, 4, 110-122.	22.7	318
63	The RhoA Effector mDia Is Induced During T Cell Activation and Regulates Actin Polymerization and Cell Migration in T Lymphocytes. Journal of Immunology, 2003, 171, 1023-1034.	0.8	69
64	Cutting Edge: Association of the Motor Protein Nonmuscle Myosin Heavy Chain-IIA with the C Terminus of the Chemokine Receptor CXCR4 in T Lymphocytes. Journal of Immunology, 2002, 169, 5410-5414.	0.8	53
65	A Novel Serine-rich Motif in the Intercellular Adhesion Molecule 3 Is Critical for Its Ezrin/Radixin/Moesin-directed Subcellular Targeting. Journal of Biological Chemistry, 2002, 277, 10400-10409.	3.4	64
66	Dynamic interaction of VCAM-1 and ICAM-1 with moesin and ezrin in a novel endothelial docking structure for adherent leukocytes. Journal of Cell Biology, 2002, 157, 1233-1245.	5.2	540
67	A Role for the Rho-p160 Rho Coiled-Coil Kinase Axis in the Chemokine Stromal Cell-Derived Factor-1Î±-Induced Lymphocyte Actomyosin and Microtubular Organization and Chemotaxis. Journal of Immunology, 2002, 168, 400-410.	0.8	95
68	The leukocyte cytoskeleton in cell migration and immune interactions. International Review of Cytology, 2002, 216, 233-289.	6.2	58
69	A juxta-membrane amino acid sequence of P-selectin glycoprotein ligand-1 is involved in moesin binding and ezrin/radixin/moesin-directed targeting at the trailing edge of migrating lymphocytes. European Journal of Immunology, 2002, 32, 1560.	2.9	66
70	Cell adhesion and polarity during immune interactions. Immunological Reviews, 2002, 186, 68-82.	6.0	90
71	Regulation of microtubule-organizing center orientation and actomyosin cytoskeleton rearrangement during immune interactions. Immunological Reviews, 2002, 189, 84-97.	6.0	64
72	Rho and Rho-associated Kinase Modulate the Tyrosine Kinase PYK2 in T-cells through Regulation of the Activity of the Integrin LFA-1. Journal of Biological Chemistry, 2001, 276, 40518-40527.	3.4	56

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73	Rho regulates T cell receptor ITAM-induced lymphocyte spreading in an integrin-independent manner. European Journal of Immunology, 2000, 30, 3403-3410.	2.9	41
74	Cell Polarization: A Comparative Cell Biology and Immunological View. Autoimmunity, 2000, 7, 51-65.	0.6	21
75	Rho GTPases control migration and polarization of adhesion molecules and cytoskeletal ERM components in T lymphocytes. European Journal of Immunology, 1999, 29, 3609-3620.	2.9	211
76	The chemokine SDF-1Î± triggers a chemotactic response and induces cell polarization in human B lymphocytes. European Journal of Immunology, 1998, 28, 2197-2207.	2.9	102
77	The Two Poles of the Lymphocyte: Specialized Cell Compartments for Migration and Recruitment. Cell Adhesion and Communication, 1998, 6, 125-133.	1.7	72
78	Targeting cytoskeletal phosphorylation in cancer. Exploration of Targeted Anti-tumor Therapy, 0, , .	0.8	1