Robert Grosse

List of Publications by Year
in descending order

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104 papers	9,598 citations	41344 49 h-index	40979 93 g-index
111 all docs	111 docs citations	111 times ranked	14552 citing authors

#	Article	IF	Citations
1	Fibroblast-led collective invasion of carcinoma cells with differing roles for RhoGTPases in leading and following cells. Nature Cell Biology, 2007, 9, 1392-1400.	10.3	1,281
2	The Global Phosphorylation Landscape of SARS-CoV-2 Infection. Cell, 2020, 182, 685-712.e19.	28.9	825
3	Cell motility through plasma membrane blebbing. Journal of Cell Biology, 2008, 181, 879-884.	5.2	510
4	Comparative host-coronavirus protein interaction networks reveal pan-viral disease mechanisms. Science, 2020, 370, .	12.6	508
5	Nuclear Actin Network Assembly by Formins Regulates the SRF Coactivator MAL. Science, 2013, 340, 864-867.	12.6	316
6	Staying in Shape with Formins. Developmental Cell, 2006, 10, 693-706.	7.0	302
7	Nucleating actin for invasion. Nature Reviews Cancer, 2011, 11, 177-187.	28.4	224
8	Nuclear F-actin Formation and Reorganization upon Cell Spreading. Journal of Biological Chemistry, 2015, 290, 11209-11216.	3.4	204
9	Dia1 and IQGAP1 interact in cell migration and phagocytic cup formation. Journal of Cell Biology, 2007, 178, 193-200.	5.2	180
10	Integrin Trafficking Regulated by Rab21 Is Necessary for Cytokinesis. Developmental Cell, 2008, 15, 371-385.	7.0	177
11	Receptor-dependent RhoA Activation in G12/G13-deficient Cells. Journal of Biological Chemistry, 2003, 278, 28743-28749.	3.4	176
12	A transient pool of nuclear F-actin at mitotic exit controls chromatin organization. Nature Cell Biology, 2017, 19, 1389-1399.	10.3	170
13	Actin visualization at a glance. Journal of Cell Science, 2017, 130, 525-530.	2.0	164
14	Inhibition of Gonadotropin-Releasing Hormone Receptor Signaling by Expression of a Splice Variant of the Human Receptor. Molecular Endocrinology, 1997, 11, 1305-1318.	3.7	152
15	Programmed assembly of synthetic protocells into thermoresponsive prototissues. Nature Materials, 2018, 17, 1145-1153.	27.5	151
16	Positive feedback between Dia1, LARG, and RhoA regulates cell morphology and invasion. Genes and Development, 2007, 21, 1478-1483.	5.9	148
17	Involvement of Gs and Gi Proteins in Dual Coupling of the Luteinizing Hormone Receptor to Adenylyl Cyclase and Phospholipase C. Journal of Biological Chemistry, 1996, 271, 16764-16772.	3.4	141
18	Gonadotropin-releasing Hormone Receptor Initiates Multiple Signaling Pathways by Exclusively Coupling to Gq/11Proteins. Journal of Biological Chemistry, 2000, 275, 9193-9200.	3.4	140

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19	Get to grips: steering local actin dynamics with IQGAPs. EMBO Reports, 2007, 8, 1019-1023.	4.5	136
20	Within-host evolution of SARS-CoV-2 in an immunosuppressed COVID-19 patient as a source of immune escape variants. Nature Communications, 2021, 12, 6405.	12.8	128
21	Formin-like 2 drives amoeboid invasive cell motility downstream of RhoC. Oncogene, 2010, 29, 2441-2448.	5.9	123
22	SCAI acts as a suppressor of cancer cell invasion through the transcriptional control of Î²1-integrin. Nature Cell Biology, 2009, 11, 557-568.	10.3	120
23	HIV-1 Nef Interferes with Host Cell Motility by Deregulation of Cofilin. Cell Host and Microbe, 2009, 6, 174-186.	11.0	118
24	The sphingosine 1-phosphate receptor S1P4regulates cell shape and motility via coupling to Giand G12/13. Journal of Cellular Biochemistry, 2003, 89, 507-519.	2.6	117
25	Matrix Metalloproteinases 2 and 9 Mediate Epidermal Growth Factor Receptor Transactivation by Gonadotropin-releasing Hormone. Journal of Biological Chemistry, 2003, 278, 47307-47318.	3.4	116
26	Actin visualization at a glance. Development (Cambridge), 2017, 144, e1.1-e1.1.	2.5	105
27	Nuclear actin filaments in DNA repair dynamics. Nature Cell Biology, 2019, 21, 1068-1077.	10.3	101
28	The galanin receptor type 2 initiates multiple signaling pathways in small cell lung cancer cells by coupling to Gq, Gi and G12 proteins. Oncogene, 2000, 19, 4199-4209.	5.9	100
29	A role for VASP in RhoA-Diaphanous signalling to actin dynamics and SRF activity. EMBO Journal, 2003, 22, 3050-3061.	7.8	96
30	GÎ±12/13 Is Essential for Directed Cell Migration and Localized Rho-Dia1 Function. Journal of Biological Chemistry, 2005, 280, 42242-42251.	3.4	95
31	To be or not to be assembled: progressing into nuclear actin filaments. Nature Reviews Molecular Cell Biology, 2013, 14, 693-697.	37.0	94
32	Structural Implication for Receptor Oligomerization from Functional Reconstitution Studies of Mutant V2 Vasopressin Receptors. Journal of Biological Chemistry, 2000, 275, 2381-2389.	3.4	89
33	Inverse PPARÎ²/Î´ agonists suppress oncogenic signaling to the ANGPTL4 gene and inhibit cancer cell invasion. Oncogene, 2013, 32, 5241-5252.	5.9	74
34	Mutant p53 promotes tumor progression and metastasis by the endoplasmic reticulum UDPase ENTPD5. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8433-E8442.	7.1	73
35	Epidermal Growth Factor Receptor Tyrosine Kinase Mediates Ras Activation by Gonadotropin-releasing Hormone. Journal of Biological Chemistry, 2000, 275, 12251-12260.	3.4	67
36	Inhibition of Gonadotropin-Releasing Hormone Receptor Signaling by Expression of a Splice Variant of the Human Receptor. Molecular Endocrinology, 1997, 11, 1305-1318.	3.7	67

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37	Cu₂ZnSnS₄ Thin Films Generated from a Single Solution Based Precursor: The Effect of Na and Sb Doping. Chemistry of Materials, 2016, 28, 4991-4997.	6.7	65
38	Contribution of receptor/G protein signaling to cell growth and transformation. Naunyn-Schmiedeberg's Archives of Pharmacology, 2000, 361, 345-362.	3.0	62
39	Hierarchical Assembly of Cylindrical Block Comicelles Mediated by Spatially Confined Hydrogen-Bonding Interactions. Journal of the American Chemical Society, 2016, 138, 12902-12912.	13.7	62
40	Higher-order assembly of crystalline cylindrical micelles into membrane-extendable colloidosomes. Nature Communications, 2017, 8, 426.	12.8	62
41	The Diaphanous-related Formin FHOD1 Associates with ROCK1 and Promotes Src-dependent Plasma Membrane Blebbing. Journal of Biological Chemistry, 2008, 283, 27891-27903.	3.4	61
42	Dynamizing nuclear actin filaments. Current Opinion in Cell Biology, 2019, 56, 1-6.	5.4	59
43	Formins at the Junction. Trends in Biochemical Sciences, 2016, 41, 148-159.	7.5	58
44	â€œCrossâ€•Supermicelles via the Hierarchical Assembly of Amphiphilic Cylindrical Triblock Comicelles. Journal of the American Chemical Society, 2016, 138, 4087-4095.	13.7	58
45	GPCR-induced calcium transients trigger nuclear actin assembly for chromatin dynamics. Nature Communications, 2019, 10, 5271.	12.8	58
46	Junctional actin assembly is mediated by Formin-like 2 downstream of Rac1. Journal of Cell Biology, 2015, 209, 367-376.	5.2	57
47	Immunosuppression in Honeybee Queens by the Neonicotinoids Thiacloprid and Clothianidin. Scientific Reports, 2017, 7, 4673.	3.3	56
48	G-protein-coupled receptor signaling and polarized actin dynamics drive cell-in-cell invasion. ELife, 2014, 3, .	6.0	55
49	Essential role of Pyk2 and Src kinase activation in neuropeptide-induced proliferation of small cell lung cancer cells. Oncogene, 2008, 27, 1737-1748.	5.9	53
50	SH4-domain-induced plasma membrane dynamization promotes bleb-associated cell motility. Journal of Cell Science, 2007, 120, 3820-3829.	2.0	51
51	LARG and mDia1 Link Gî±_{12/13}to Cell Polarity and Microtubule Dynamics. Molecular Biology of the Cell, 2008, 19, 30-40.	2.1	47
52	Filamin A interacts with the coactivator MKL1 to promote the activity of the transcription factor SRF and cell migration. Science Signaling, 2015, 8, ra112.	3.6	46
53	Active Fluctuations of the Nuclear Envelope Shape the Transcriptional Dynamics in Oocytes. Developmental Cell, 2019, 51, 145-157.e10.	7.0	46
54	A novel subgroup of class I G-protein-coupled receptors. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1999, 1446, 57-70.	2.4	44

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55	TGF-Î²-mediated activation of RhoA signalling is required for efficient V12HaRas and V600EBRAF transformation. Oncogene, 2009, 28, 983-993.	5.9	42
56	Guanine Nucleotide-Binding Proteins of the G12 Family Shape Immune Functions by Controlling CD4+ T Cell Adhesiveness and Motility. Immunity, 2009, 30, 708-720.	14.3	42
57	Formin-like 2 Promotes Î²1-Integrin Trafficking and Invasive Motility Downstream of PKCÎ±. Developmental Cell, 2015, 34, 475-483.	7.0	42
58	Centrosomal Actin Assembly Is Required for Proper Mitotic Spindle Formation and Chromosome Congression. IScience, 2019, 15, 274-281.	4.1	42
59	Differential activation of dendritic cells by nerve growth factor and brain-derived neurotrophic factor. Clinical and Experimental Allergy, 2007, 37, 1701-1708.	2.9	35
60	Chitosan silk-based three-dimensional scaffolds containing gentamicin-encapsulated calcium alginate beads for drug administration and blood compatibility. Journal of Biomaterials Applications, 2015, 29, 1314-1325.	2.4	34
61	MRTF transcription and Ezrin-dependent plasma membrane blebbing are required for entotic invasion. Journal of Cell Biology, 2017, 216, 3087-3095.	5.2	34
62	Zygotic Nuclear F-Actin Safeguards Embryonic Development. Cell Reports, 2020, 31, 107824.	6.4	34
63	Actin chromobody imaging reveals sub-organellar actin dynamics. Nature Methods, 2020, 17, 917-921.	19.0	33
64	SCAI promotes DNA double-strand break repair in distinct chromosomal contexts. Nature Cell Biology, 2016, 18, 1357-1366.	10.3	32
65	Mechanically Robust Gels Formed from Hydrophobized Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2018, 10, 19318-19322.	8.0	30
66	Thermosensitive supramolecular and colloidal hydrogels via self-assembly modulated by hydrophobized cellulose nanocrystals. Cellulose, 2019, 26, 529-542.	4.9	30
67	Emerging Properties and Functions of Actin and Actin Filaments Inside the Nucleus. Cold Spring Harbor Perspectives in Biology, 2021, 13, a040121.	5.5	30
68	Effects of Mycophenolic Acid on Human Fibroblast Proliferation, Migration and Adhesion In Vitro and In Vivo. American Journal of Transplantation, 2008, 8, 1786-1797.	4.7	26
69	Direct observation of electron emission from the grain boundaries of chemical vapour deposition diamond films by tunneling atomic force microscopy. Applied Physics Letters, 2014, 104, .	3.3	26
70	SnapShot: Formins. Cell, 2010, 142, 172-172.e1.	28.9	25
71	Forminâ€™ actin in the nucleus. Nucleus, 2014, 5, 15-20.	2.2	25
72	Single Molecular Precursor Solution for CuIn(S,Se)₂ Thin Films Photovoltaic Cells: Structure and Device Characteristics. ACS Applied Materials & Interfaces, 2017, 9, 2301-2308.	8.0	25

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73	Nef does not inhibit F-actin remodelling and HIV-1 cellâ€“cell transmission at the T lymphocyte virological synapse. European Journal of Cell Biology, 2011, 90, 913-921.	3.6	24
74	Differing and isoform-specific roles for the formin DIAPH3 in plasma membrane blebbing and filopodia formation. Cell Research, 2012, 22, 728-745.	12.0	23
75	Regulation of myocardin-related transcriptional coactivators through cofactor interactions in differentiation and cancer. Cell Cycle, 2009, 8, 2523-2527.	2.6	22
76	Extracellular signaling cues for nuclear actin polymerization. European Journal of Cell Biology, 2015, 94, 359-362.	3.6	21
77	Formin-mediated bridging of cell wall, plasma membrane, and cytoskeleton in symbiotic infections of Medicago truncatula. Current Biology, 2021, 31, 2712-2719.e5.	3.9	20
78	An addressable packing parameter approach for reversibly tuning the assembly of oligo(aniline)-based supra-amphiphiles. Chemical Science, 2018, 9, 4392-4401.	7.4	18
79	Chemoenzymatic Synthesis of Fluorinated Cellodextrins Identifies a New Allomorph for Celluloseâ€Like Materials**. Chemistry - A European Journal, 2021, 27, 1374-1382.	3.3	18
80	Multiscale characterisation of single synthetic fibres: Surface morphology and nanomechanical properties. Journal of Colloid and Interface Science, 2020, 571, 398-411.	9.4	16
81	Functional Interaction of SCAI with the SWI/SNF Complex for Transcription and Tumor Cell Invasion. PLoS ONE, 2013, 8, e69947.	2.5	16
82	Pharmacological Inhibition of Actin Assembly to Target Tumor Cell Motility. Reviews of Physiology, Biochemistry and Pharmacology, 2013, 166, 23-42.	1.6	15
83	A Rac1-FMNL2 signaling module affects cell-cell contact formation independent of Cdc42 and membrane protrusions. PLoS ONE, 2018, 13, e0194716.	2.5	15
84	Dynamic Behavior in Enzymeâ€“Polymer Surfactant Hydrogel Films. Advanced Materials, 2016, 28, 1597-1602.	21.0	14
85	MASTL promotes cell contractility and motility through kinase-independent signaling. Journal of Cell Biology, 2020, 219, .	5.2	14
86	Exposure to hypergravity during zebrafish development alters cartilage material properties and strain distribution. Bone and Joint Research, 2021, 10, 137-148.	3.6	13
87	Postmitotic expansion of cell nuclei requires nuclear actin filament bundling by Î±â€actinin 4. EMBO Reports, 2020, 21, e50758.	4.5	11
88	The Actin-Family Protein Arp4 Is a Novel Suppressor for the Formation and Functions of Nuclear F-Actin. Cells, 2020, 9, 758.	4.1	10
89	Heads or tails: Nanostructure and molecular orientations in organised erucamide surface layers. Journal of Colloid and Interface Science, 2021, 590, 506-517.	9.4	10
90	Structure, Nanomechanical Properties, and Wettability of Organized Erucamide Layers on a Polypropylene Surface. Langmuir, 2021, 37, 6521-6532.	3.5	10

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91	Detection of activated Rho in fixed Xenopus tissue. Developmental Dynamics, 2009, 238, 1407-1411.	1.8	9
92	Dynamics of GÎ±q-proteinâ€“p63RhoGEF interaction and its regulation by RGS2. Biochemical Journal, 2014, 458, 131-140.	3.7	9
93	Synthesis, thin-film self-assembly, and pyrolysis of ruthenium-containing polyferrocenylsilane block copolymers. Polymer Chemistry, 2018, 9, 2951-2963.	3.9	5
94	Characterization of a L136P mutation in Formin-like 2 (FMNL2) from a patient with chronic inflammatory bowel disease. PLoS ONE, 2021, 16, e0252428.	2.5	5
95	Postsynthesis Self- And Coassembly of Enzymatically Produced Fluorinated Cellodextrins and Cellulose Nanocrystals. Langmuir, 2021, 37, 9215-9221.	3.5	4
96	A GBD Uncovered: the FHOD1 N Terminus Is Formin'. Structure, 2008, 16, 1287-1288.	3.3	3
97	LOV is all we need. Nature Reviews Molecular Cell Biology, 2015, 16, 206-206.	37.0	3
98	Yersinia pseudotuberculosis cytotoxic necrotizing factor interacts with glycosaminoglycans. FASEB Journal, 2021, 35, e21647.	0.5	3
99	A tight grip on differentiation: Nuclear constriction by microtubules regulates hematopoietic stem cells. EMBO Journal, 2020, 39, e107086.	7.8	3
100	Measuring nuclear calcium and actin assembly in living cells. Journal of Biochemistry, 2021, 169, 287-294.	1.7	2
101	Cyclase-associated protein 2 (CAP2) controls MRTF-A localization and SRF activity in mouse embryonic fibroblasts. Scientific Reports, 2021, 11, 4789.	3.3	2
102	Extracellular MIF, but not its homologue D-DT, promotes fibroblast motility independent of its receptor CD74/CD44. Journal of Cell Science, 2021, 134, .	2.0	1
103	Optogenetic Control of Myocardinâ€Related Transcription Factor A Subcellular Localization and Transcriptional Activity Steers Membrane Blebbing and Invasive Cancer Cell Motility. Advanced Biology, 2021, 5, 2000208.	2.5	1
104	Centrosomal Actin Assembly is Required for Proper Mitotic Spindle Formation and Chromosome Congression. SSRN Electronic Journal, 0, , .	0.4	0