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	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
2	Chemoenzymatic Synthesis of Fluorinated Cellodextrins Identifies a New Allomorph for Celluloseâ€Like Materials**. Chemistry - A European Journal, 2021, 27, 1374-1382.	3.3	18
3	Emerging Properties and Functions of Actin and Actin Filaments Inside the Nucleus. Cold Spring Harbor Perspectives in Biology, 2021, 13, a040121.	5.5	30
4	Measuring nuclear calcium and actin assembly in living cells. Journal of Biochemistry, 2021, 169, 287-294.	1.7	2
5	Cyclase-associated protein 2 (CAP2) controls MRTF-A localization and SRF activity in mouse embryonic fibroblasts. Scientific Reports, 2021, 11, 4789.	3.3	2
6	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
7	Exposure to hypergravity during zebrafish development alters cartilage material properties and strain distribution. Bone and Joint Research, 2021, 10, 137-148.	3.6	13
8	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
9	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
10	Structure, Nanomechanical Properties, and Wettability of Organized Erucamide Layers on a Polypropylene Surface. Langmuir, 2021, 37, 6521-6532.	3.5	10
11	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
12	Yersinia pseudotuberculosis cytotoxic necrotizing factor interacts with glycosaminoglycans. FASEB Journal, 2021, 35, e21647.	0.5	3
13	Postsynthesis Self- And Coassembly of Enzymatically Produced Fluorinated Cellodextrins and Cellulose Nanocrystals. Langmuir, 2021, 37, 9215-9221.	3.5	4
14	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
15	Comparative host-coronavirus protein interaction networks reveal pan-viral disease mechanisms. Science, 2020, 370, .	12.6	508
16	Actin chromobody imaging reveals sub-organellar actin dynamics. Nature Methods, 2020, 17, 917-921.	19.0	33
17	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
18	Multiscale characterisation of single synthetic fibres: Surface morphology and nanomechanical properties. Journal of Colloid and Interface Science, 2020, 571, 398-411.	9.4	16

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19	The Global Phosphorylation Landscape of SARS-CoV-2 Infection. Cell, 2020, 182, 685-712.e19.	28.9	825
20	Zygotic Nuclear F-Actin Safeguards Embryonic Development. Cell Reports, 2020, 31, 107824.	6.4	34
21	MASTL promotes cell contractility and motility through kinase-independent signaling. Journal of Cell Biology, 2020, 219, .	5.2	14
22	Postmitotic expansion of cell nuclei requires nuclear actin filament bundling by Î±â€actinin 4. EMBO Reports, 2020, 21, e50758.	4.5	11
23	A tight grip on differentiation: Nuclear constriction by microtubules regulates hematopoietic stem cells. EMBO Journal, 2020, 39, e107086.	7.8	3
24	Active Fluctuations of the Nuclear Envelope Shape the Transcriptional Dynamics in Oocytes. Developmental Cell, 2019, 51, 145-157.e10.	7.0	46
25	Nuclear actin filaments in DNA repair dynamics. Nature Cell Biology, 2019, 21, 1068-1077.	10.3	101
26	Centrosomal Actin Assembly Is Required for Proper Mitotic Spindle Formation and Chromosome Congression. IScience, 2019, 15, 274-281.	4.1	42
27	GPCR-induced calcium transients trigger nuclear actin assembly for chromatin dynamics. Nature Communications, 2019, 10, 5271.	12.8	58
28	Dynamizing nuclear actin filaments. Current Opinion in Cell Biology, 2019, 56, 1-6.	5.4	59
29	Thermosensitive supramolecular and colloidal hydrogels via self-assembly modulated by hydrophobized cellulose nanocrystals. Cellulose, 2019, 26, 529-542.	4.9	30
30	Synthesis, thin-film self-assembly, and pyrolysis of ruthenium-containing polyferrocenylsilane block copolymers. Polymer Chemistry, 2018, 9, 2951-2963.	3.9	5
31	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
32	Programmed assembly of synthetic protocells into thermoresponsive prototissues. Nature Materials, 2018, 17, 1145-1153.	27.5	151
33	Mechanically Robust Gels Formed from Hydrophobized Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2018, 10, 19318-19322.	8.0	30
34	A Rac1-FMNL2 signaling module affects cell-cell contact formation independent of Cdc42 and membrane protrusions. PLoS ONE, 2018, 13, e0194716.	2.5	15
35	Actin visualization at a glance. Journal of Cell Science, 2017, 130, 525-530.	2.0	164
36	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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37	Higher-order assembly of crystalline cylindrical micelles into membrane-extendable colloidosomes. Nature Communications, 2017, 8, 426.	12.8	62
38	Immunosuppression in Honeybee Queens by the Neonicotinoids Thiacloprid and Clothianidin. Scientific Reports, 2017, 7, 4673.	3.3	56
39	MRTF transcription and Ezrin-dependent plasma membrane blebbing are required for entotic invasion. Journal of Cell Biology, 2017, 216, 3087-3095.	5.2	34
40	A transient pool of nuclear F-actin at mitotic exit controls chromatin organization. Nature Cell Biology, 2017, 19, 1389-1399.	10.3	170
41	Actin visualization at a glance. Development (Cambridge), 2017, 144, e1.1-e1.1.	2.5	105
42	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
43	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
44	SCAI promotes DNA double-strand break repair in distinct chromosomal contexts. Nature Cell Biology, 2016, 18, 1357-1366.	10.3	32
45	Dynamic Behavior in Enzymeâ€“Polymer Surfactant Hydrogel Films. Advanced Materials, 2016, 28, 1597-1602.	21.0	14
46	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
47	Formins at the Junction. Trends in Biochemical Sciences, 2016, 41, 148-159.	7.5	58
48	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
49	LOV is all we need. Nature Reviews Molecular Cell Biology, 2015, 16, 206-206.	37.0	3
50	Formin-like 2 Promotes Î²1-Integrin Trafficking and Invasive Motility Downstream of PKCÎ±. Developmental Cell, 2015, 34, 475-483.	7.0	42
51	Extracellular signaling cues for nuclear actin polymerization. European Journal of Cell Biology, 2015, 94, 359-362.	3.6	21
52	Junctional actin assembly is mediated by Formin-like 2 downstream of Rac1. Journal of Cell Biology, 2015, 209, 367-376.	5.2	57
53	Nuclear F-actin Formation and Reorganization upon Cell Spreading. Journal of Biological Chemistry, 2015, 290, 11209-11216.	3.4	204
54	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

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55	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
56	Dynamics of GÎ±q-proteinâ€“p63RhoGEF interaction and its regulation by RGS2. Biochemical Journal, 2014, 458, 131-140.	3.7	9
57	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
58	Forminâ€™ actin in the nucleus. Nucleus, 2014, 5, 15-20.	2.2	25
59	G-protein-coupled receptor signaling and polarized actin dynamics drive cell-in-cell invasion. ELife, 2014, 3, .	6.0	55
60	To be or not to be assembled: progressing into nuclear actin filaments. Nature Reviews Molecular Cell Biology, 2013, 14, 693-697.	37.0	94
61	Nuclear Actin Network Assembly by Formins Regulates the SRF Coactivator MAL. Science, 2013, 340, 864-867.	12.6	316
62	Pharmacological Inhibition of Actin Assembly to Target Tumor Cell Motility. Reviews of Physiology, Biochemistry and Pharmacology, 2013, 166, 23-42.	1.6	15
63	Inverse PPARÎ²/Î´ agonists suppress oncogenic signaling to the ANGPTL4 gene and inhibit cancer cell invasion. Oncogene, 2013, 32, 5241-5252.	5.9	74
64	Functional Interaction of SCAI with the SWI/SNF Complex for Transcription and Tumor Cell Invasion. PLoS ONE, 2013, 8, e69947.	2.5	16
65	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
66	Nucleating actin for invasion. Nature Reviews Cancer, 2011, 11, 177-187.	28.4	224
67	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
68	Formin-like 2 drives amoeboid invasive cell motility downstream of RhoC. Oncogene, 2010, 29, 2441-2448.	5.9	123
69	SnapShot: Formins. Cell, 2010, 142, 172-172.e1.	28.9	25
70	Detection of activated Rho in fixed Xenopus tissue. Developmental Dynamics, 2009, 238, 1407-1411.	1.8	9
71	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
72	TGF-Î²-mediated activation of RhoA signalling is required for efficient V12HaRas and V600EBRAF transformation. Oncogene, 2009, 28, 983-993.	5.9	42

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73	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
74	HIV-1 Nef Interferes with Host Cell Motility by Deregulation of Cofilin. Cell Host and Microbe, 2009, 6, 174-186.	11.0	118
75	Regulation of myocardin-related transcriptional coactivators through cofactor interactions in differentiation and cancer. Cell Cycle, 2009, 8, 2523-2527.	2.6	22
76	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
77	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
78	A GBD Uncovered: the FHOD1 N Terminus Is Formin'. Structure, 2008, 16, 1287-1288.	3.3	3
79	Integrin Trafficking Regulated by Rab21 Is Necessary for Cytokinesis. Developmental Cell, 2008, 15, 371-385.	7.0	177
80	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
81	Cell motility through plasma membrane blebbing. Journal of Cell Biology, 2008, 181, 879-884.	5.2	510
82	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
83	Dia1 and IQGAP1 interact in cell migration and phagocytic cup formation. Journal of Cell Biology, 2007, 178, 193-200.	5.2	180
84	Positive feedback between Dia1, LARG, and RhoA regulates cell morphology and invasion. Genes and Development, 2007, 21, 1478-1483.	5.9	148
85	SH4-domain-induced plasma membrane dynamization promotes bleb-associated cell motility. Journal of Cell Science, 2007, 120, 3820-3829.	2.0	51
86	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
87	Get to grips: steering local actin dynamics with IQGAPs. EMBO Reports, 2007, 8, 1019-1023.	4.5	136
88	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
89	Staying in Shape with Formins. Developmental Cell, 2006, 10, 693-706.	7.0	302
90	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

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91	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
92	A role for VASP in RhoA-Diaphanous signalling to actin dynamics and SRF activity. EMBO Journal, 2003, 22, 3050-3061.	7.8	96
93	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
94	Receptor-dependent RhoA Activation in G12/G13-deficient Cells. Journal of Biological Chemistry, 2003, 278, 28743-28749.	3.4	176
95	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
96	Contribution of receptor/G protein signaling to cell growth and transformation. Naunyn-Schmiedeberg's Archives of Pharmacology, 2000, 361, 345-362.	3.0	62
97	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
98	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
99	Epidermal Growth Factor Receptor Tyrosine Kinase Mediates Ras Activation by Gonadotropin-releasing Hormone. Journal of Biological Chemistry, 2000, 275, 12251-12260.	3.4	67
100	A novel subgroup of class I G-protein-coupled receptors. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1999, 1446, 57-70.	2.4	44
101	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
102	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
103	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
104	Centrosomal Actin Assembly is Required for Proper Mitotic Spindle Formation and Chromosome Congression. SSRN Electronic Journal, 0, , .	0.4	0