Philippe Chavrier

List of Publications by Year
in descending order

121 papers	16,488 citations	20817 60 h-index	20358 116 g-index
131 all docs	131 docs citations	131 times ranked	17358 citing authors

#	Article	IF	Citations
1	Tissue remodeling by invadosomes. Faculty Reviews, 2021, 10, 39.	3.9	24
2	Metastasis-suppressor NME1 controls the invasive switch of breast cancer by regulating MT1-MMP surface clearance. Oncogene, 2021, 40, 4019-4032.	5.9	19
3	mTOR Repression in Response to Amino Acid Starvation Promotes ECM Degradation Through MT1â€MMP Endocytosis Arrest. Advanced Science, 2021, 8, e2101614.	11.2	9
4	Compromised nuclear envelope integrity drives TREX1-dependent DNA damage and tumor cell invasion. Cell, 2021, 184, 5230-5246.e22.	28.9	109
5	A new pipeline for pathophysiological analysis of the mammary gland based on organoid transplantation and organ clearing. Journal of Cell Science, 2020, 133, .	2.0	2
6	Intersection of TKS5 and FGD1/CDC42 signaling cascades directs the formation of invadopodia. Journal of Cell Biology, 2020, 219, .	5.2	23
7	Protrudin-mediated ERâ€“endosome contact sites promote MT1-MMP exocytosis and cell invasion. Journal of Cell Biology, 2020, 219, .	5.2	43
8	MT1-MMP directs force-producing proteolytic contacts that drive tumor cell invasion. Nature Communications, 2019, 10, 4886.	12.8	77
9	aPKCi triggers basal extrusion of luminal mammary epithelial cells by tuning contractility and vinculin localization at cell junctions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24108-24114.	7.1	16
10	Nucleusâ€“Invadopodia Duo During Cancer Invasion. Trends in Cell Biology, 2019, 29, 93-96.	7.9	20
11	LINC complex-Lis1 interplay controls MT1-MMP matrix digest-on-demand response for confined tumor cell migration. Nature Communications, 2018, 9, 2443.	12.8	91
12	Coronin 1C promotes triple-negative breast cancer invasiveness through regulation of MT1-MMP traffic and invadopodia function. Oncogene, 2018, 37, 6425-6441.	5.9	36
13	A NUMBâ€“EFA6Bâ€“ARF6 recycling route controls apically restricted cell protrusions and mesenchymal motility. Journal of Cell Biology, 2018, 217, 3161-3182.	5.2	18
14	MT1-MMP targeting to endolysosomes is mediated by flotillin upregulation. Journal of Cell Science, 2018, 131, .	2.0	29
15	Cell-to-cell heterogeneity of EWSR1-FLI1 activity determines proliferation/migration choices in Ewing sarcoma cells. Oncogene, 2017, 36, 3505-3514.	5.9	153
16	The advantage of channeling nucleotides for very processive functions. F1000Research, 2017, 6, 724.	1.6	27
17	The advantage of channeling nucleotides for very processive functions. F1000Research, 2017, 6, 724.	1.6	36
18	LIMK Regulates Tumor-Cell Invasion and Matrix Degradation Through Tyrosine Phosphorylation of MT1-MMP. Scientific Reports, 2016, 6, 24925.	3.3	54

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19	Social networking in tumor cell communities is associated with increased aggressiveness. Intravital, 2016, 5, e1112476.	2.0	2
20	AMOTL1 Promotes Breast Cancer Progression and Is Antagonized by Merlin. Neoplasia, 2016, 18, 10-24.	5.3	31
21	Mitochondrial quality control and dynamics: NM23-H4 supports cardiolipin-linked mitophagy signaling and GTP-fueling to OPA1. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, e26.	1.0	0
22	Cellular and Molecular Mechanisms of MT1-MMP-Dependent Cancer Cell Invasion. Annual Review of Cell and Developmental Biology, 2016, 32, 555-576.	9.4	188
23	RAB2A controls MT1â€MMP endocytic and Eâ€cadherin polarized Golgi trafficking to promote invasive breast cancer programs. EMBO Reports, 2016, 17, 1061-1080.	4.5	72
24	LIN7A is a major determinant of cell-polarity defects in breast carcinomas. Breast Cancer Research, 2016, 18, 23.	5.0	13
25	p63/MT1-MMP axis is required for in situ to invasive transition in basal-like breast cancer. Oncogene, 2016, 35, 344-357.	5.9	76
26	Mitochondrial NM23-H4/NDPk-D is Multifunctional: Fueling Mitochondrial GTPase OPA1 and Triggering Mitophagy. Biophysical Journal, 2015, 108, 369a.	0.5	0
27	Impaired PRC2 activity promotes transcriptional instability and favors breast tumorigenesis. Genes and Development, 2015, 29, 2547-2562.	5.9	77
28	ARF6 Promotes the Formation of Rac1 and WAVE-Dependent Ventral F-Actin Rosettes in Breast Cancer Cells in Response to Epidermal Growth Factor. PLoS ONE, 2015, 10, e0121747.	2.5	36
29	Regulated delivery of molecular cargo to invasive tumour-derived microvesicles. Nature Communications, 2015, 6, 6919.	12.8	151
30	Phagocytosis of immunoglobulin-coated emulsion droplets. Biomaterials, 2015, 51, 270-277.	11.4	37
31	ARF6â€“JIP3/4 regulate endosomal tubules for MT1-MMP exocytosis in cancer invasion. Journal of Cell Biology, 2015, 211, 339-358.	5.2	126
32	ARF6â€“JIP3/4 regulate endosomal tubules for MT1-MMP exocytosis in cancer invasion. Journal of Experimental Medicine, 2015, 212, 21212OIA101.	8.5	0
33	Control of MT1-MMP transport by atypical PKC during breast-cancer progression. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1872-9.	7.1	76
34	Nucleoside diphosphate kinases fuel dynamin superfamily proteins with GTP for membrane remodeling. Science, 2014, 344, 1510-1515.	12.6	130
35	Abstract LB-30: Membrane-anchored MT1-MMP downstream of p63 is essential for the transition of in situ to invasive breast carcinoma. , 2014, , .		0
36	Î±TAT1 catalyses microtubule acetylation at clathrin-coated pits. Nature, 2013, 502, 567-570.	27.8	95

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37	Endosomal WASH and exocyst complexes control exocytosis of MT1-MMP at invadopodia. Journal of Cell Biology, 2013, 203, 1063-1079.	5.2	162
38	ATAT1/MEC-17 acetyltransferase and HDAC6 deacetylase control a balance of acetylation of alpha-tubulin and cortactin and regulate MT1-MMP trafficking and breast tumor cell invasion. European Journal of Cell Biology, 2012, 91, 950-960.	3.6	83
39	Exo70 Subunit of the Exocyst Complex Is Involved in Adhesion-Dependent Trafficking of Caveolin-1. PLoS ONE, 2012, 7, e52627.	2.5	21
40	Spontaneous Contractility-Mediated Cortical Flow Generates Cell Migration in Three-Dimensional Environments. Biophysical Journal, 2011, 101, 1041-1045.	0.5	119
41	Decoupling of Activation and Effector Binding Underlies ARF6 Priming of Fast Endocytic Recycling. Current Biology, 2011, 21, 574-579.	3.9	55
42	HDAC6 is required for invadopodia activity and invasion by breast tumor cells. European Journal of Cell Biology, 2011, 90, 128-135.	3.6	74
43	Cell polarity during motile processes: keeping on track with the exocyst complex. Biochemical Journal, 2011, 433, 403-409.	3.7	39
44	Contractility of the cell rear drives invasion of breast tumor cells in 3D Matrigel. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1943-1948.	7.1	254
45	Toward a Structural Understanding of Arf Family:Effector Specificity. Structure, 2010, 18, 1552-1558.	3.3	27
46	Abscission accomplished by PtdIns(3)P. Nature Cell Biology, 2010, 12, 308-310.	10.3	7
47	Consortin, a trans-Golgi network cargo receptor for the plasma membrane targeting and recycling of connexins. Human Molecular Genetics, 2010, 19, 262-275.	2.9	35
48	Implication of Metastasis Suppressor NM23-H1 in Maintaining Adherens Junctions and Limiting the Invasive Potential of Human Cancer Cells. Cancer Research, 2010, 70, 7710-7722.	0.9	132
49	Cdc42 localization and cell polarity depend on membrane traffic. Journal of Cell Biology, 2010, 191, 1261-1269.	5.2	156
50	Diaphanous-Related Formins Are Required for Invadopodia Formation and Invasion of Breast Tumor Cells. Cancer Research, 2009, 69, 2792-2800.	0.9	175
51	ARF6 Interacts with JIP4 to Control a Motor Switch Mechanism Regulating Endosome Traffic in Cytokinesis. Current Biology, 2009, 19, 184-195.	3.9	184
52	ARF6-Regulated Shedding of Tumor Cell-Derived Plasma Membrane Microvesicles. Current Biology, 2009, 19, 1875-1885.	3.9	657
53	The structural basis of Arf effector specificity: the crystal structure of ARF6 in a complex with JIP4. EMBO Journal, 2009, 28, 2835-2845.	7.8	68
54	Matrix invasion by tumour cells: a focus on MT1-MMP trafficking to invadopodia. Journal of Cell Science, 2009, 122, 3015-3024.	2.0	422

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55	ARF6, PI3-kinase and host cell actin cytoskeleton in Toxoplasma gondii cell invasion. Biochemical and Biophysical Research Communications, 2009, 378, 656-661.	2.1	25
56	Regulation of Protein Trafficking by GTP-Binding Proteins. , 2009, , 342-362.		1
57	Endocytic traffic in animal cell cytokinesis. Current Opinion in Cell Biology, 2008, 20, 454-461.	5.4	116
58	MT1-MMP-Dependent Invasion Is Regulated by TI-VAMP/VAMP7. Current Biology, 2008, 18, 926-931.	3.9	186
59	The interaction of IQGAP1 with the exocyst complex is required for tumor cell invasion downstream of Cdc42 and RhoA. Journal of Cell Biology, 2008, 181, 985-998.	5.2	260
60	Endosome positioning during cytokinesis. Biochemical Society Transactions, 2008, 36, 442-443.	3.4	14
61	Collective migration of an epithelial monolayer in response to a model wound. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15988-15993.	7.1	759
62	AP-1 and ARF1 Control Endosomal Dynamics at Sites of FcRâ€“mediated Phagocytosis. Molecular Biology of the Cell, 2007, 18, 4921-4931.	2.1	51
63	Spermatocyte cytokinesis requires rapid membrane addition mediated by ARF6 on central spindle recycling endosomes. Development (Cambridge), 2007, 134, 4437-4447.	2.5	90
64	ARF1-mediated actin polymerization produces movement of artificial vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16928-16933.	7.1	42
65	Structural basis for ARF1-mediated recruitment of ARHGAP21 to Golgi membranes. EMBO Journal, 2007, 26, 1953-1962.	7.8	86
66	V-ATPase: a potential pH sensor. Nature Cell Biology, 2006, 8, 107-109.	10.3	51
67	ARF proteins: roles in membrane traffic and beyond. Nature Reviews Molecular Cell Biology, 2006, 7, 347-358.	37.0	1,244
68	Proteasome-mediated Degradation of Rac1-GTP during Epithelial Cell Scattering. Molecular Biology of the Cell, 2006, 17, 2236-2242.	2.1	52
69	RalB Mobilizes the Exocyst To Drive Cell Migration. Molecular and Cellular Biology, 2006, 26, 727-734.	2.3	129
70	Selective Rac1 inhibition in dendritic cells diminishes apoptotic cell uptake and cross-presentation in vivo. Blood, 2005, 105, 742-749.	1.4	43
71	Golgi-localized GAP for Cdc42 functions downstream of ARF1 to control Arp2/3 complex and F-actin dynamics. Nature Cell Biology, 2005, 7, 353-364.	10.3	153
72	A Role for Mammalian Diaphanous-Related Formins in Complement Receptor (CR3)-Mediated Phagocytosis in Macrophages. Current Biology, 2005, 15, 2007-2012.	3.9	117

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73	Phosphatidylinositol-4,5-bisphosphate hydrolysis directs actin remodeling during phagocytosis. Journal of Cell Biology, 2005, 169, 139-149.	5.2	227
74	Force mapping in epithelial cell migration. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2390-2395.	7.1	686
75	ARF6 GTPase controls bacterial invasion by actin remodelling. Journal of Cell Science, 2005, 118, 2201-2210.	2.0	59
76	Protein interaction mapping: A Drosophila case study. Genome Research, 2005, 15, 376-384.	5.5	509
77	TI-VAMP/VAMP7 is required for optimal phagocytosis of opsonised particles in macrophages. EMBO Journal, 2004, 23, 4166-4176.	7.8	185
78	Signaling and membrane dynamics during phagocytosis: many roads lead to the phagos(R)ome. Current Opinion in Cell Biology, 2004, 16, 422-428.	5.4	127
79	Microfabricated arrays of elastomeric posts to study cellular mechanics. , 2004, 5345, 26.		11
80	ARF6 controls post-endocytic recycling through its downstream exocyst complex effector. Journal of Cell Biology, 2003, 163, 1111-1121.	5.2	185
81	ADP ribosylation factor 6 is activated and controls membrane delivery during phagocytosis in macrophages. Journal of Cell Biology, 2003, 161, 1143-1150.	5.2	173
82	May the force be with you: Myosin-X in phagocytosis. Nature Cell Biology, 2002, 4, E169-E171.	10.3	7
83	A conserved C-terminal domain of EFA6-family ARF6-guanine nucleotide exchange factors induces lengthening of microvilli-like membrane protrusions. Journal of Cell Science, 2002, 115, 2867-2879.	2.0	84
84	A conserved C-terminal domain of EFA6-family ARF6-guanine nucleotide exchange factors induces lengthening of microvilli-like membrane protrusions. Journal of Cell Science, 2002, 115, 2867-79.	2.0	68
85	Molecular basis of phagocytosis. Seminars in Immunology, 2001, 13, 337-338.	5.6	4
86	Actin dynamics during phagocytosis. Seminars in Immunology, 2001, 13, 347-355.	5.6	153
87	A WASp-VASP complex regulates actin polymerization at the plasma membrane. EMBO Journal, 2001, 20, 5603-5614.	7.8	100
88	[29] Expression, purification, and biochemical properties of EFA6, a Sec7 domain-containing guanine exchange factor for ADP-ribosylation factor 6 (ARF6). Methods in Enzymology, 2001, 329, 272-279.	1.0	17
89	Inducible membrane recruitment of small GTP-binding proteins by rapamycin-based system in living cells. Methods in Enzymology, 2000, 325, 285-295.	1.0	10
90	Function of Rho family proteins in actin dynamics during phagocytosis and engulfment. Nature Cell Biology, 2000, 2, E191-E196.	10.3	284

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91	The role of ARF and Rab GTPases in membrane transport. Current Opinion in Cell Biology, 1999, 11, 466-475.	5.4	455
92	Inducible recruitment of Cdc42 or WASP to a cell-surface receptor triggers actin polymerization and filopodium formation. Current Biology, 1999, 9, 351-361.	3.9	149
93	Author correction: Triple association of CDC25-, Dbl- and Sec7-related domains in mammalian guanine nucleotide exchange factors. Trends in Biochemical Sciences, 1999, 24, 178.	7.5	0
94	EFA6, a sec7 domain-containing exchange factor for ARF6, coordinates membrane recycling and actin cytoskeleton organization. EMBO Journal, 1999, 18, 1480-1491.	7.8	259
95	Triple association of CDC25-, Dbl- and Sec7-related domains in mammalian guanine-nucleotide-exchange factors. Trends in Biochemical Sciences, 1998, 23, 472-473.	7.5	6
96	Differential properties of D4/LyGDI versus RhoGDI: phosphorylation and rho GTPase selectivity. FEBS Letters, 1998, 422, 269-273.	2.8	58
97	Tyrosine phosphorylation of the Wiskott-Aldrich Syndrome protein by Lyn and Btk is regulated by CDC42. FEBS Letters, 1998, 434, 431-436.	2.8	98
98	Fc receptor-mediated phagocytosis requires CDC42 and Rac1. EMBO Journal, 1998, 17, 6219-6229.	7.8	223
99	ARNO3, a Sec7-domain guanine nucleotide exchange factor for ADP ribosylation factor 1, is involved in the control of Golgi structure and function. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9926-9931.	7.1	88
100	Reconstituted Killer Cell Inhibitory Receptors for Major Histocompatibility Complex Class I Molecules Control Mast Cell Activation Induced via Immunoreceptor Tyrosine-based Activation Motifs. Journal of Biological Chemistry, 1997, 272, 8989-8996.	3.4	111
101	Mouse metanephric kidney as a model system for identifying developmentally regulated genes. Journal of Cellular Physiology, 1997, 173, 147-151.	4.1	7
102	Early endosome membrane dynamics characterized by flow cytometry. , 1997, 29, 41-49.		23
103	Ras, Rap, and Rac Small GTP-binding Proteins Are Targets for Clostridium sordellii Lethal Toxin Glucosylation. Journal of Biological Chemistry, 1996, 271, 10217-10224.	3.4	202
104	Characterization of a Lysozyme-Major Histocompatibility Complex Class II Molecule-loading Compartment as a Specialized Recycling Endosome in Murine B Lymphocytes. Journal of Biological Chemistry, 1996, 271, 27360-27365.	3.4	17
105	The O-Chain of Brucella abortus Lipopolysaccharide Induces SDS-Resistant MHC Class II Molecules in Mouse B Cells. Biochemical and Biophysical Research Communications, 1994, 203, 1230-1236.	2.1	9
106	An immunologist's look at the Rho and Rab GTP-binding proteins. Trends in Immunology, 1993, 14, 440-444.	7.5	20
107	Characterization of a Monoclonal Antibody Specific for the Ras-Related GTP-Binding Protein Rho A. Biochemical and Biophysical Research Communications, 1993, 196, 1522-1528.	2.1	36
108	Rab17, a novel small GTPase, is specific for epithelial cells and is induced during cell polarization.. Journal of Cell Biology, 1993, 121, 553-564.	5.2	132

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109	[37] Localization of Rab family members in animal cells. Methods in Enzymology, 1992, 219, 398-407.	1.0	40
110	Sequence of a canine cDNA clone encoding a Ran/TC4 GTP-binding protein. Gene, 1992, 120, 325-326.	2.2	13
111	The complexity of the Rab and Rho GTP-binding protein subfamilies revealed by a PCR cloning approach. Gene, 1992, 112, 261-264.	2.2	119
112	rab5 controls early endosome fusion in vitro. Cell, 1991, 64, 915-925.	28.9	1,020
113	Hypervariable C-termmal domain of rab proteins acts as a targeting signal. Nature, 1991, 353, 769-772.	27.8	386
114	Localization of rab Proteins. , 1991, , 253-262.		0
115	Localization of low molecular weight GTP binding proteins to exocytic and endocytic compartments. Cell, 1990, 62, 317-329.	28.9	1,122
116	The segment-specific gene Krox-20 encodes a transcription factor with binding sites in the promoter region of the Hox-1.4 gene. EMBO Journal, 1990, 9, 1209-18.	7.8	61
117	Segment-specific expression of a zinc-finger gene in the developing nervous system of the mouse. Nature, 1989, 337, 461-464.	27.8	513
118	The Epstein-Barr virus (EBV) early promoter DR contains a cis-acting element responsive to the EBV transactivator EB1 and an enhancer with constitutive and inducible activities. Journal of Virology, 1989, 63, 607-614.	3.4	74
119	Both Epstein-Barr virus (EBV)-encoded trans-acting factors, EB1 and EB2, are required to activate transcription from an EBV early promoter. EMBO Journal, 1986, 5, 3243-9.	7.8	313
120	Construction and use of cDNA clones for the mapping and identification of Epstein-Barr virus early P3HR-1 mRNAs. Journal of Virology, 1985, 54, 608-614.	3.4	15
121	Regulation and Function of the Small GTP-Binding Protein ARF6 in Membrane Dynamics. , 0, , 165-174.		0