

Johanna Ivaska

List of Publications by Year in descending order

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126
papers

13,045
citations

20759

60
h-index

25716

108
g-index

153
all docs

153
docs citations

153
times ranked

18660
citing authors

#	ARTICLE	IF	CITATIONS
1	Every step of the way: integrins in cancer progression and metastasis. <i>Nature Reviews Cancer</i> , 2018, 18, 533-548.	12.8	960
2	Integrins as biomechanical sensors of the microenvironment. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 457-473.	16.1	768
3	CIP2A Inhibits PP2A in Human Malignancies. <i>Cell</i> , 2007, 130, 51-62.	13.5	662
4	Novel functions of vimentin in cell adhesion, migration, and signaling. <i>Experimental Cell Research</i> , 2007, 313, 2050-2062.	1.2	638
5	Filopodia in cell adhesion, 3D migration and cancer cell invasion. <i>Current Opinion in Cell Biology</i> , 2015, 36, 23-31.	2.6	419
6	Integrin-mediated Cell Adhesion to Type I Collagen Fibrils. <i>Journal of Biological Chemistry</i> , 2004, 279, 31956-31963.	1.6	311
7	Small GTPase Rab21 regulates cell adhesion and controls endosomal traffic of β 1-integrins. <i>Journal of Cell Biology</i> , 2006, 173, 767-780.	2.3	294
8	Vimentin coordinates fibroblast proliferation and keratinocyte differentiation in wound healing via TGF- β 1/Slug signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4320-7.	3.3	287
9	Integrin trafficking in cells and tissues. <i>Nature Cell Biology</i> , 2019, 21, 122-132.	4.6	269
10	Integrin traffic – the update. <i>Journal of Cell Science</i> , 2015, 128, 839-52.	1.2	251
11	PKC δ -mediated phosphorylation of vimentin controls integrin recycling and motility. <i>EMBO Journal</i> , 2005, 24, 3834-3845.	3.5	231
12	Cooperation Between Integrins and Growth Factor Receptors in Signaling and Endocytosis. <i>Annual Review of Cell and Developmental Biology</i> , 2011, 27, 291-320.	4.0	229
13	Internalization of Echovirus 1 in Caveolae. <i>Journal of Virology</i> , 2002, 76, 1856-1865.	1.5	219
14	Filopodia and adhesion in cancer cell motility. <i>Cell Adhesion and Migration</i> , 2011, 5, 421-430.	1.1	213
15	Endothelial destabilization by angiopoietin-2 via integrin β 1 activation. <i>Nature Communications</i> , 2015, 6, 5962.	5.8	210
16	Integrin β 1 Mediates Isoform-Specific Activation of p38 and Upregulation of Collagen Gene Transcription by a Mechanism Involving the β 1 Cyttoplasmic Tail. <i>Journal of Cell Biology</i> , 1999, 147, 401-416.	2.3	206
17	CIP2A Is Associated with Human Breast Cancer Aggressivity. <i>Clinical Cancer Research</i> , 2009, 15, 5092-5100.	3.2	205
18	Distinct Recycling of Active and Inactive β 1 Integrins. <i>Traffic</i> , 2012, 13, 610-625.	1.3	202

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19	Integrin inactivators: balancing cellular functions in vitro and in vivo. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 430-442.	16.1	193
20	Integrin traffic. <i>Journal of Cell Science</i> , 2006, 119, 3723-3731.	1.2	190
21	Negative regulation of EGFR signalling through integrin- β 1-mediated activation of protein tyrosine phosphatase TCPTP. <i>Nature Cell Biology</i> , 2005, 7, 78-85.	4.6	185
22	SHARPIN is an endogenous inhibitor of β 1-integrin activation. <i>Nature Cell Biology</i> , 2011, 13, 1315-1324.	4.6	184
23	Integrin endosomal signalling suppresses anoikis. <i>Nature Cell Biology</i> , 2015, 17, 1412-1421.	4.6	184
24	Integrin Trafficking Regulated by Rab21 Is Necessary for Cytokinesis. <i>Developmental Cell</i> , 2008, 15, 371-385.	3.1	177
25	Integrin β 1 Promotes Activation of Protein Phosphatase 2A and Dephosphorylation of Akt and Glycogen Synthase Kinase 3 β . <i>Molecular and Cellular Biology</i> , 2002, 22, 1352-1359.	1.1	164
26	Clustering Induces a Lateral Redistribution of β 1 Integrin from Membrane Rafts to Caveolae and Subsequent Protein Kinase C-dependent Internalization. <i>Molecular Biology of the Cell</i> , 2004, 15, 625-636.	0.9	163
27	Distinct Recognition of Collagen Subtypes by α 1 β 1 and α 2 β 1 Integrins. <i>Journal of Biological Chemistry</i> , 2000, 275, 8255-8261.	1.6	151
28	L-type calcium channels regulate filopodia stability and cancer cell invasion downstream of integrin signalling. <i>Nature Communications</i> , 2016, 7, 13297.	5.8	141
29	The complexity of integrins in cancer and new scopes for therapeutic targeting. <i>British Journal of Cancer</i> , 2016, 115, 1017-1023.	2.9	137
30	Vimentin. <i>Small GTPases</i> , 2011, 2, 51-53.	0.7	136
31	PKCepsilon controls the traffic of beta1 integrins in motile cells. <i>EMBO Journal</i> , 2002, 21, 3608-3619.	3.5	133
32	Mutant p53-associated myosin-X upregulation promotes breast cancer invasion and metastasis. <i>Journal of Clinical Investigation</i> , 2014, 124, 1069-1082.	3.9	133
33	SCAI acts as a suppressor of cancer cell invasion through the transcriptional control of β 1-integrin. <i>Nature Cell Biology</i> , 2009, 11, 557-568.	4.6	120
34	SHANK proteins limit integrin activation by directly interacting with Rap1 and R-Ras. <i>Nature Cell Biology</i> , 2017, 19, 292-305.	4.6	117
35	FiloQuant reveals increased filopodia density during breast cancer progression. <i>Journal of Cell Biology</i> , 2017, 216, 3387-3403.	2.3	114
36	Vimentin-ERK Signaling Uncouples Slug Gene Regulatory Function. <i>Cancer Research</i> , 2015, 75, 2349-2362.	0.4	112

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37	Normal stroma suppresses cancer cell proliferation via mechanosensitive regulation of JMJD1a-mediated transcription. <i>Nature Communications</i> , 2016, 7, 12237.	5.8	105
38	Filopodome Mapping Identifies p130Cas as a Mechanosensitive Regulator of Filopodia Stability. <i>Current Biology</i> , 2019, 29, 202-216.e7.	1.8	101
39	Cell-derived matrices for studying cell proliferation and directional migration in a complex 3D microenvironment. <i>Nature Protocols</i> , 2017, 12, 2376-2390.	5.5	98
40	The R-Ras/RIN2/Rab5 complex controls endothelial cell adhesion and morphogenesis via active integrin endocytosis and Rac signaling. <i>Cell Research</i> , 2012, 22, 1479-1501.	5.7	97
41	The R-Ras interaction partner ORP3 regulates cell adhesion. <i>Journal of Cell Science</i> , 2008, 121, 695-705.	1.2	88
42	AMPK negatively regulates tensin-dependent integrin activity. <i>Journal of Cell Biology</i> , 2017, 216, 1107-1121.	2.3	87
43	Directed cell migration towards softer environments. <i>Nature Materials</i> , 2022, 21, 1081-1090.	13.3	86
44	Identification of Protein Interactions Involved in Cellular Signaling. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1752-1763.	2.5	84
45	Beta 1-integrin α -c-Met cooperation reveals an inside-in survival signalling on autophagy-related endomembranes. <i>Nature Communications</i> , 2016, 7, 11942.	5.8	84
46	Competitive binding of Rab21 and p120RasGAP to integrins regulates receptor traffic and migration. <i>Journal of Cell Biology</i> , 2011, 194, 291-306.	2.3	82
47	A Peptide Inhibiting the Collagen Binding Function of Integrin α 2I Domain. <i>Journal of Biological Chemistry</i> , 1999, 274, 3513-3521.	1.6	81
48	Endosomes: Emerging Platforms for Integrin-Mediated FAK Signalling. <i>Trends in Cell Biology</i> , 2016, 26, 391-398.	3.6	80
49	Integrin activity in neuronal connectivity. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	78
50	PtdIns(3,4,5)P ₃ is a regulator of myosin-X localization and filopodia formation. <i>Journal of Cell Science</i> , 2010, 123, 3525-3534.	1.2	75
51	OSBP-related protein 3 (ORP3) coupling with VAMP-associated protein A regulates R-Ras activity. <i>Experimental Cell Research</i> , 2015, 331, 278-291.	1.2	74
52	Targeting α 21-integrin inhibits vascular leakage in endotoxemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6467-E6476.	3.3	72
53	PKC ϵ Regulation of an α 5 Integrin β 1 ZO-1 Complex Controls Lamellae Formation in Migrating Cancer Cells. <i>Science Signaling</i> , 2009, 2, ra32.	1.6	71
54	The protein tyrosine phosphatase TCPTP controls VEGFR2 signalling. <i>Journal of Cell Science</i> , 2008, 121, 3570-3580.	1.2	67

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55	Fetal liver endothelium regulates the seeding of tissue-resident macrophages. <i>Nature</i> , 2016, 538, 392-396.	13.7	67
56	Integrin $\alpha 21$ Domain Recognizes Type I and Type IV Collagens by Different Mechanisms. <i>Journal of Biological Chemistry</i> , 2000, 275, 3348-3354.	1.6	65
57	PKC μ is a permissive link in integrin-dependent IFN- γ signalling that facilitates JAK phosphorylation of STAT1. <i>Nature Cell Biology</i> , 2003, 5, 363-369.	4.6	65
58	Syndecan-1 supports integrin $\alpha 21$ -mediated adhesion to collagen. <i>Experimental Cell Research</i> , 2008, 314, 3369-3381.	1.2	65
59	Interplay between cell adhesion and growth factor receptors: from the plasma membrane to the endosomes. <i>Cell and Tissue Research</i> , 2010, 339, 111-120.	1.5	65
60	Distinct roles of AKT isoforms in regulating $\alpha 21$ -integrin activity, migration, and invasion in prostate cancer. <i>Molecular Biology of the Cell</i> , 2012, 23, 3357-3369.	0.9	65
61	Differential expression of collagen- and laminin-binding integrins mediates ureteric bud and inner medullary collecting duct cell tubulogenesis. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 287, F602-F611.	1.3	63
62	Negative regulators of integrin activity. <i>Journal of Cell Science</i> , 2012, 125, 3271-80.	1.2	61
63	Tensin-4-Dependent MET Stabilization Is Essential for Survival and Proliferation in Carcinoma Cells. <i>Developmental Cell</i> , 2014, 29, 421-436.	3.1	60
64	A Strong Contractile Actin Fence and Large Adhesions Direct Human Pluripotent Colony Morphology and Adhesion. <i>Stem Cell Reports</i> , 2017, 9, 67-76.	2.3	59
65	A phase II trial of bevacizumab with dacarbazine and daily low-dose interferon- γ as first line treatment in metastatic melanoma. <i>Melanoma Research</i> , 2010, 20, 318-325.	0.6	55
66	SHARPIN Regulates Uropod Detachment in Migrating Lymphocytes. <i>Cell Reports</i> , 2013, 5, 619-628.	2.9	55
67	Selective integrin endocytosis is driven by interactions between the integrin α -chain and AP2. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 172-179.	3.6	55
68	Integrin adhesion complexes. <i>Current Biology</i> , 2021, 31, R536-R542.	1.8	52
69	SORLA regulates endosomal trafficking and oncogenic fitness of HER2. <i>Nature Communications</i> , 2019, 10, 2340.	5.8	49
70	Transcytosis route mediates rapid delivery of intact antibodies to draining lymph nodes. <i>Journal of Clinical Investigation</i> , 2019, 129, 3086-3102.	3.9	48
71	Fluctuation-Based Super-Resolution Traction Force Microscopy. <i>Nano Letters</i> , 2020, 20, 2230-2245.	4.5	47
72	Using xCELLigence RTCA Instrument to Measure Cell Adhesion. <i>Bio-protocol</i> , 2017, 7, .	0.2	46

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73	Integrin-Specific Control of Focal Adhesion Kinase and RhoA Regulates Membrane Protrusion and Invasion. PLoS ONE, 2013, 8, e74659.	1.1	45
74	Formin-like 2 Promotes β 1-Integrin Trafficking and Invasive Motility Downstream of PKC ζ . Developmental Cell, 2015, 34, 475-483.	3.1	42
75	Syndecan-1 and -4 differentially regulate oncogenic K-ras dependent cell invasion into collagen through β 1 integrin and MT1-MMP. Matrix Biology, 2011, 30, 207-217.	1.5	41
76	Epithelial vimentin plays a functional role in mammary gland development. Development (Cambridge), 2017, 144, 4103-4113.	1.2	41
77	Integrin signaling and mechanotransduction in regulation of somatic stem cells. Experimental Cell Research, 2019, 378, 217-225.	1.2	40
78	<scp>SHARPIN</scp> regulates collagen architecture and ductal outgrowth in the developing mouse mammary gland. EMBO Journal, 2017, 36, 165-182.	3.5	39
79	A functional genetic screen reveals new regulators of β 1-integrin activity. Journal of Cell Science, 2012, 125, 649-661.	1.2	38
80	Superresolution architecture of cornerstone focal adhesions in human pluripotent stem cells. Nature Communications, 2019, 10, 4756.	5.8	38
81	Regulation of Cell Migration and β 1 Integrin Trafficking by the Endosomal Adaptor <scp>GGA3</scp>. Traffic, 2016, 17, 670-688.	1.3	35
82	Cargo-specific recruitment in clathrin- and dynamin-independent endocytosis. Nature Cell Biology, 2021, 23, 1073-1084.	4.6	34
83	â€œRKKHâ€•Peptides from the Snake Venom Metalloproteinase of Bothrops jararaca Bind Near the Metal Ion-dependent Adhesion Site of the Human Integrin β 1 I-domain. Journal of Biological Chemistry, 1999, 274, 31493-31505.	1.6	33
84	Mammary-Derived Growth Inhibitor Alters Traffic of EGFR and Induces a Novel Form of Cetuximab Resistance. Clinical Cancer Research, 2009, 15, 6570-6581.	3.2	33
85	Myosin-X and talin modulate integrin activity at filopodia tips. Cell Reports, 2021, 36, 109716.	2.9	33
86	Inhibition of receptor tyrosine kinase signalling by small molecule agonist of T-cell protein tyrosine phosphatase. BMC Cancer, 2010, 10, 7.	1.1	32
87	Lymphatic endothelium stimulates melanoma metastasis and invasion via MMP14-dependent Notch3 and β 1-integrin activation. ELife, 2018, 7, .	2.8	31
88	Distinct c-Met activation mechanisms induce cell rounding or invasion through pathways involving integrins, RhoA and HIP1. Journal of Cell Science, 2014, 127, 1938-1952.	1.2	30
89	Cross-talk between integrins β 1 and β 2 in renal epithelial cells. Experimental Cell Research, 2008, 314, 3593-3604.	1.2	29
90	Mechano-responsiveness of fibrillar adhesions on stiffness-gradient gels. Journal of Cell Science, 2020, 133, .	1.2	27

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91	Unanchoring integrins in focal adhesions. <i>Nature Cell Biology</i> , 2012, 14, 981-983.	4.6	26
92	RNAi screen identifies KIF15 as a novel regulator of integrin endocytic trafficking. <i>Journal of Cell Science</i> , 2014, 127, 2433-47.	1.2	25
93	Tensins: Bridging AMP-Activated Protein Kinase with Integrin Activation. <i>Trends in Cell Biology</i> , 2017, 27, 703-711.	3.6	25
94	Mutually Exclusive Roles of SHARPIN in Integrin Inactivation and NF- κ B Signaling. <i>PLoS ONE</i> , 2015, 10, e0143423.	1.1	24
95	GGA2 and RAB13 promote activity-dependent β 1-integrin recycling. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	24
96	Calpains promote β 1-integrin turnover in nonrecycling integrin pathway. <i>Molecular Biology of the Cell</i> , 2012, 23, 448-463.	0.9	23
97	Integrins and Mutant p53 on the Road to Metastasis. <i>Cell</i> , 2009, 139, 1220-1222.	13.5	22
98	Integrin Binding Dynamics Modulate Ligand-Specific Mechanosensing in Mammary Gland Fibroblasts. <i>iScience</i> , 2020, 23, 100907.	1.9	22
99	Serum angiogenin levels predict treatment response in patients with stage IV melanoma. <i>Clinical and Experimental Metastasis</i> , 2007, 24, 567-574.	1.7	20
100	Loss of ADAM9 expression impairs β 1 integrin endocytosis, focal adhesion formation and cancer cell migration. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	20
101	A feed-forward loop between SorLA and HER3 determines heregulin response and neratinib resistance. <i>Oncogene</i> , 2021, 40, 1300-1317.	2.6	19
102	Zebrafish Embryo Xenograft and Metastasis Assay. <i>Bio-protocol</i> , 2018, 8, e3027.	0.2	19
103	Vascular Morphogenesis: An Integrin and Fibronectin Highway. <i>Current Biology</i> , 2017, 27, R158-R161.	1.8	16
104	Filopodia Quantification Using FiloQuant. <i>Methods in Molecular Biology</i> , 2019, 2040, 359-373.	0.4	16
105	Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1988-1997.	1.1	14
106	MASTL promotes cell contractility and motility through kinase-independent signaling. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	14
107	SHANK3 conformation regulates direct actin binding and crosstalk with Rap1 signaling. <i>Current Biology</i> , 2021, 31, 4956-4970.e9.	1.8	14
108	High-Throughput Methods in Identification of Protein Tyrosine Phosphatase Inhibitors and Activators. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2011, 11, 141-150.	0.9	12

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109	68Ga-DOTA-E[c(RGDfK)] ₂ PET Imaging of SHARPIN-Regulated Integrin Activity in Mice. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1380-1387.	2.8	11
110	A ZO-1/5 ¹ -Integrin Complex Regulates Cytokinesis Downstream of PKC μ in NCI-H460 Cells Plated on Fibronectin. <i>PLoS ONE</i> , 2013, 8, e70696.	1.1	11
111	ProLIF: quantitative integrin protein-protein interactions and synergistic membrane effects on proteoliposomes. <i>Journal of Cell Science</i> , 2018, 132, .	1.2	9
112	Talin rod domain-containing protein 1 (TLNRD1) is a novel actin-bundling protein which promotes filopodia formation. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	9
113	Pressure Drives Rapid Burst-Like Coordinated Cellular Motion from 3D Cancer Aggregates. <i>Advanced Science</i> , 2022, 9, e2104808.	5.6	8
114	Blocking integrin inactivation as an anti-angiogenic therapy. <i>EMBO Journal</i> , 2015, 34, 1293-1295.	3.5	6
115	Aneuploidy facilitates oncogenic transformation via specific genetic alterations, including Twist2 upregulation. <i>Carcinogenesis</i> , 2013, 34, 2000-2009.	1.3	5
116	Integrin bondage: filamin takes control. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 355-357.	3.6	5
117	Integrin α -endosome signaling suppresses anoikis. <i>Cell Cycle</i> , 2016, 15, 605-606.	1.3	5
118	A Negative Feedback Loop Regulates Integrin Inactivation and Promotes Neutrophil Recruitment to Inflammatory Sites. <i>Journal of Immunology</i> , 2019, 203, 1579-1588.	0.4	5
119	Mitosis-Resistant Adhesions Provide Molecular Memory to Dividing Cells. <i>Developmental Cell</i> , 2018, 45, 5-7.	3.1	4
120	Sortilin-related receptor is a druggable therapeutic target in breast cancer. <i>Molecular Oncology</i> , 2022, 16, 116-129.	2.1	4
121	Kinase-Independent Functions of MASTL in Cancer: A New Perspective on MASTL Targeting. <i>Cells</i> , 2020, 9, 1624.	1.8	3
122	Food for thought: How cell adhesion coordinates nutrient sensing. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	3
123	Platelet SHARPIN regulates platelet adhesion and inflammatory responses through associations with β 3 and LUBAC. <i>Blood Advances</i> , 2022, 6, 2595-2607.	2.5	3
124	MASTL is enriched in cancerous and pluripotent stem cells and influences OCT1/OCT4 levels. <i>IScience</i> , 2022, 25, 104459.	1.9	3
125	Johanna Ivaska: Finding opposing forces in integrins. <i>Journal of Cell Biology</i> , 2015, 208, 652-653.	2.3	0
126	Identification of shardin as a molecule regulating leukocyte transmigration from siRNA screens (LB281). <i>FASEB Journal</i> , 2014, 28, LB281.	0.2	0