

Jacky G Goetz

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

5,650
citations

117571

34
h-index

85498

71
g-index

101
all docs

101
docs citations

101
times ranked

9015
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical Remodeling of the Microenvironment by Stromal Caveolin-1 Favors Tumor Invasion and Metastasis. <i>Cell</i> , 2011, 146, 148-163.	13.5	603
2	Lattices, rafts, and scaffolds: domain regulation of receptor signaling at the plasma membrane. <i>Journal of Cell Biology</i> , 2009, 185, 381-385.	2.3	305
3	Caveolin-1 in tumor progression: the good, the bad and the ugly. <i>Cancer and Metastasis Reviews</i> , 2008, 27, 715-735.	2.7	263
4	Fluids and their mechanics in tumour transit: shaping metastasis. <i>Nature Reviews Cancer</i> , 2020, 20, 107-124.	12.8	232
5	Plasma membrane domain organization regulates EGFR signaling in tumor cells. <i>Journal of Cell Biology</i> , 2007, 179, 341-356.	2.3	231
6	Live Tracking of Inter-organ Communication by Endogenous Exosomes In Vivo. <i>Developmental Cell</i> , 2019, 48, 573-589.e4.	3.1	231
7	Phosphorylated Caveolin-1 Regulates Rho/ROCK-Dependent Focal Adhesion Dynamics and Tumor Cell Migration and Invasion. <i>Cancer Research</i> , 2008, 68, 8210-8220.	0.4	228
8	Hemodynamic Forces Tune the Arrest, Adhesion, and Extravasation of Circulating Tumor Cells. <i>Developmental Cell</i> , 2018, 45, 33-52.e12.	3.1	219
9	RAL-1 controls multivesicular body biogenesis and exosome secretion. <i>Journal of Cell Biology</i> , 2015, 211, 27-37.	2.3	193
10	Galectin Binding to Mgat5-Modified N-Glycans Regulates Fibronectin Matrix Remodeling in Tumor Cells. <i>Molecular and Cellular Biology</i> , 2006, 26, 3181-3193.	1.1	185
11	Endothelial Cilia Mediate Low Flow Sensing during Zebrafish Vascular Development. <i>Cell Reports</i> , 2014, 6, 799-808.	2.9	180
12	Concerted regulation of focal adhesion dynamics by galectin-3 and tyrosine-phosphorylated caveolin-1. <i>Journal of Cell Biology</i> , 2008, 180, 1261-1275.	2.3	171
13	The power of imaging to understand extracellular vesicle biology in vivo. <i>Nature Methods</i> , 2021, 18, 1013-1026.	9.0	163
14	Studying the Fate of Tumor Extracellular Vesicles at High Spatiotemporal Resolution Using the Zebrafish Embryo. <i>Developmental Cell</i> , 2019, 48, 554-572.e7.	3.1	160
15	Mutations in signal recognition particle SRP54 cause syndromic neutropenia with Shwachman-Diamond-like features. <i>Journal of Clinical Investigation</i> , 2017, 127, 4090-4103.	3.9	126
16	Fluid flows and forces in development: functions, features and biophysical principles. <i>Development (Cambridge)</i> , 2012, 139, 1229-1245.	1.2	121
17	Membrane Tension Orchestrates Rear Retraction in Matrix-Directed Cell Migration. <i>Developmental Cell</i> , 2019, 51, 460-475.e10.	3.1	112
18	Fast and precise targeting of single tumor cells <i>in vivo</i> by multimodal correlative microscopy. <i>Journal of Cell Science</i> , 2016, 129, 444-56.	1.2	97

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19	Fluorescent Polymer Nanoparticles for Cell Barcoding In Vitro and In Vivo. <i>Small</i> , 2017, 13, 1701582.	5.2	95
20	Mechanical Adaptability of Tumor Cells in Metastasis. <i>Developmental Cell</i> , 2021, 56, 164-179.	3.1	94
21	Metastasis of circulating tumor cells: Favorable soil or suitable biomechanics, or both?. <i>Cell Adhesion and Migration</i> , 2015, 9, 345-356.	1.1	93
22	Integrity of lipid nanocarriers in bloodstream and tumor quantified by near-infrared ratiometric FRET imaging in living mice. <i>Journal of Controlled Release</i> , 2016, 236, 57-67.	4.8	87
23	Intravital Correlative Microscopy: Imaging Life at the Nanoscale. <i>Trends in Cell Biology</i> , 2016, 26, 848-863.	3.6	86
24	Zika virus enhances monocyte adhesion and transmigration favoring viral dissemination to neural cells. <i>Nature Communications</i> , 2019, 10, 4430.	5.8	83
25	The Absence of Caveolin-1 Increases Proliferation and Anchorage- Independent Growth by a Rac-Dependent, Erk-Independent Mechanism. <i>Molecular and Cellular Biology</i> , 2009, 29, 5046-5059.	1.1	72
26	Metastatic Tumor Cells Exploit Their Adhesion Repertoire to Counteract Shear Forces during Intravascular Arrest. <i>Cell Reports</i> , 2019, 28, 2491-2500.e5.	2.9	72
27	Ral GTPases promote breast cancer metastasis by controlling biogenesis and organ targeting of exosomes. <i>ELife</i> , 2021, 10, .	2.8	70
28	Reversible interactions between smooth domains of the endoplasmic reticulum and mitochondria are regulated by physiological cytosolic Ca ²⁺ levels. <i>Journal of Cell Science</i> , 2007, 120, 3553-3564.	1.2	64
29	The microenvironment controls invadosome plasticity. <i>Journal of Cell Science</i> , 2016, 129, 1759-68.	1.2	53
30	Seeing is believing: multi-scale spatio-temporal imaging towards <i>in vivo</i> cell biology. <i>Journal of Cell Science</i> , 2016, 130, 23-38.	1.2	52
31	Interaction of the smooth endoplasmic reticulum and mitochondria. <i>Biochemical Society Transactions</i> , 2006, 34, 370-373.	1.6	50
32	Correlating Intravital Multi-Photon Microscopy to 3D Electron Microscopy of Invading Tumor Cells Using Anatomical Reference Points. <i>PLoS ONE</i> , 2014, 9, e114448.	1.1	46
33	The Small GTPase Ral orchestrates MVB biogenesis and exosome secretion. <i>Small GTPases</i> , 2018, 9, 445-451.	0.7	43
34	Combining laser capture microdissection and proteomics reveals an active translation machinery controlling invadosome formation. <i>Nature Communications</i> , 2018, 9, 2031.	5.8	43
35	Find your way with X-Ray. <i>Methods in Cell Biology</i> , 2017, 140, 277-301.	0.5	42
36	Extracellular Vesicles: Catching the Light in Zebrafish. <i>Trends in Cell Biology</i> , 2019, 29, 770-776.	3.6	38

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37	Multiscale Imaging of Metastasis in Zebrafish. Trends in Cancer, 2019, 5, 766-778.	3.8	36
38	Fibrillar cellular fibronectin supports efficient platelet aggregation and procoagulant activity. Thrombosis and Haemostasis, 2015, 114, 1175-1188.	1.8	34
39	Going live with tumor exosomes and microvesicles. Cell Adhesion and Migration, 2017, 11, 173-186.	1.1	31
40	Inhibition of PlexA1-mediated brain tumor growth and tumor-associated angiogenesis using a transmembrane domain targeting peptide. Oncotarget, 2016, 7, 57851-57865.	0.8	30
41	Hemodynamic forces can be accurately measured in vivo with optical tweezers. Molecular Biology of the Cell, 2017, 28, 3252-3260.	0.9	29
42	The Complexities of Metastasis. Cancers, 2019, 11, 1575.	1.7	28
43	Nanocomposite Polymer Scaffolds Responding under External Stimuli for Drug Delivery and Tissue Engineering Applications. Advanced Therapeutics, 2020, 3, 1900143.	1.6	28
44	Bidirectional control of the inner dynamics of focal adhesions promotes cell migration. Cell Adhesion and Migration, 2009, 3, 185-190.	1.1	26
45	Near infra-red light responsive carbon nanotubes@mesoporous silica for photothermia and drug delivery to cancer cells. Materials Today Chemistry, 2020, 17, 100308.	1.7	23
46	Intravital imaging technology guides FAK-mediated priming in pancreatic cancer precision medicine according to Merlin status. Science Advances, 2021, 7, eab0363.	4.7	23
47	The gene product of the gp78/AMFR ubiquitin E3 ligase cDNA is selectively recognized by the 3F3A antibody within a subdomain of the endoplasmic reticulum. Biochemical and Biophysical Research Communications, 2004, 320, 1316-1322.	1.0	22
48	Generating and characterizing the mechanical properties of cell-derived matrices using atomic force microscopy. Methods, 2016, 94, 85-100.	1.9	21
49	Optimal Physicochemical Properties of Antibody-Nanoparticle Conjugates for Improved Tumor Targeting. Advanced Materials, 2022, 34, e2110305.	11.1	21
50	Tumor extracellular vesicles drive metastasis (it's a long way from home). FASEB BioAdvances, 2021, 3, 930-943.	1.3	19
51	An Arf6- and caveolae-dependent pathway links hemidesmosome remodeling and mechanoreponse. Molecular Biology of the Cell, 2018, 29, 435-451.	0.9	18
52	Wrapped stellate silica nanocomposites as biocompatible luminescent nanoplatforms assessed in vivo. Journal of Colloid and Interface Science, 2019, 542, 469-482.	5.0	18
53	Circulating tumor cells: Towards mechanical phenotyping of metastasis. IScience, 2022, 25, 103969.	1.9	18
54	Metastases go with the flow. Science, 2018, 362, 999-1000.	6.0	17

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55	Laminin $\hat{1}\pm 1$ orchestrates VEGFA functions in the ecosystem of colorectal carcinoma. <i>Biology of the Cell</i> , 2018, 110, 178-195.	0.7	16
56	Circulating extracellular vesicles and tumor cells: sticky partners in metastasis. <i>Trends in Cancer</i> , 2022, 8, 799-805.	3.8	16
57	Using Correlative Light and Electron Microscopy to Study Zebrafish Vascular Morphogenesis. <i>Methods in Molecular Biology</i> , 2015, 1189, 31-46.	0.4	15
58	<i>In vivo</i> imaging of skeletal muscle in mice highlights muscle defects in a model of myotubular myopathy. <i>Intravital</i> , 2016, 5, e1168553.	2.0	13
59	Using the Zebrafish Embryo to Dissect the Early Steps of the Metastasis Cascade. <i>Methods in Molecular Biology</i> , 2018, 1749, 195-211.	0.4	12
60	Impairing flow-mediated endothelial remodeling reduces extravasation of tumor cells. <i>Scientific Reports</i> , 2021, 11, 13144.	1.6	12
61	Fluorescent nanocarriers targeting VCAM-1 for early detection of senescent endothelial cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 34, 102379.	1.7	12
62	Drug@Sponge Lipid Nanocarrier for in Situ Cargo Loading and Release Using Dynamic Covalent Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6573-6580.	7.2	11
63	Core-shell iron oxide@stellate mesoporous silica for combined near-infrared photothermia and drug delivery: Influence of pH and surface chemistry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128407.	2.3	11
64	CD44 Orchestrates Metastatic Teamwork. <i>Developmental Cell</i> , 2018, 47, 691-693.	3.1	9
65	Tracking Mechanisms of Viral Dissemination In Vivo. <i>Trends in Cell Biology</i> , 2021, 31, 17-23.	3.6	8
66	Tumor microenvironment indoctrination. <i>Cell Adhesion and Migration</i> , 2012, 6, 190-192.	1.1	7
67	pH-specific sequestration of phosphoglucose isomerase/autocrine motility factor by fibronectin and heparan sulphate. <i>Journal of Cell Science</i> , 2005, 118, 4175-4185.	1.2	6
68	Fluid flows and forces in development: functions, features and biophysical principles. <i>Development (Cambridge)</i> , 2012, 139, 3063-3063.	1.2	6
69	A quantitative approach to study endothelial cilia bending stiffness during blood flow mechanodetection in vivo. <i>Methods in Cell Biology</i> , 2015, 127, 161-173.	0.5	5
70	Live tracking of extracellular vesicles in larval zebrafish. <i>Methods in Enzymology</i> , 2020, 645, 243-275.	0.4	5
71	Visualizing Cancer. <i>Cancer Cell</i> , 2020, 38, 753-756.	7.7	4
72	Probing Intravascular Adhesion and Extravasation of Tumor Cells with Microfluidics. <i>Methods in Molecular Biology</i> , 2021, 2294, 111-132.	0.4	4

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73	Exploiting Anatomical Landmarks for Efficient In Vivo CLEM. Trends in Biochemical Sciences, 2018, 43, 744-747.	3.7	3
74	Foreword: Physics of cell migration. Cell Adhesion and Migration, 2015, 9, 325-326.	1.1	2
75	Extracellular vesicles on the wire. Cell Adhesion and Migration, 2017, 11, 121-123.	1.1	2
76	Synergistic Mechano-Chemical Sensing by Vascular Cilia. Trends in Cell Biology, 2018, 28, 507-508.	3.6	2
77	Drug-Responsive Lipid Nanocarrier for in Situ Cargo Loading and Release Using Dynamic Covalent Chemistry. Angewandte Chemie, 2021, 133, 6647-6654.	1.6	2
78	Leveraging Immunotherapy with Nanomedicine. Advanced Therapeutics, 2020, 3, 2000134.	1.6	2
79	Imaging Single Tumor Cells in Mice Using Multimodal Correlative Microscopy. Microscopy and Microanalysis, 2016, 22, 30-31.	0.2	1
80	Nanoluminal Signaling Shapes Collective Metastasis. Trends in Cancer, 2021, 7, 9-11.	3.8	1
81	The NANOTUMOR consortium – Towards the Tumor Cell Atlas. Biology of the Cell, 2021, 113, 272-280.	0.7	1
82	Biomechanics: a driving force behind metastatic progression. Comptes Rendus - Biologies, 2021, 344, 249-262.	0.1	1
83	Liquid Biopsies: Flowing Biomarkers. Advances in Experimental Medicine and Biology, 2022, , 341-368.	0.8	1
84	Multicellular cuddling in a stem cell niche. Cell Adhesion and Migration, 2015, 9, 280-282.	1.1	0