

# Jacky G Goetz

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

4,008  
citations

30  
h-index

63  
g-index

101  
ext. papers

4,910  
ext. citations

8.7  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
87	Biomechanical remodeling of the microenvironment by stromal caveolin-1 favors tumor invasion and metastasis. <i>Cell</i> , <b>2011</b> , 146, 148-63	56.2	499
86	Lattices, rafts, and scaffolds: domain regulation of receptor signaling at the plasma membrane. <i>Journal of Cell Biology</i> , <b>2009</b> , 185, 381-5	7.3	269
85	Caveolin-1 in tumor progression: the good, the bad and the ugly. <i>Cancer and Metastasis Reviews</i> , <b>2008</b> , 27, 715-35	9.6	238
84	Plasma membrane domain organization regulates EGFR signaling in tumor cells. <i>Journal of Cell Biology</i> , <b>2007</b> , 179, 341-56	7.3	202
83	Phosphorylated caveolin-1 regulates Rho/ROCK-dependent focal adhesion dynamics and tumor cell migration and invasion. <i>Cancer Research</i> , <b>2008</b> , 68, 8210-20	10.1	200
82	Galectin binding to Mgat5-modified N-glycans regulates fibronectin matrix remodeling in tumor cells. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 3181-93	4.8	158
81	Endothelial cilia mediate low flow sensing during zebrafish vascular development. <i>Cell Reports</i> , <b>2014</b> , 6, 799-808	10.6	149
80	Concerted regulation of focal adhesion dynamics by galectin-3 and tyrosine-phosphorylated caveolin-1. <i>Journal of Cell Biology</i> , <b>2008</b> , 180, 1261-75	7.3	148
79	Live Tracking of Inter-organ Communication by Endogenous Exosomes In Vivo. <i>Developmental Cell</i> , <b>2019</b> , 48, 573-589.e4	10.2	136
78	Hemodynamic Forces Tune the Arrest, Adhesion, and Extravasation of Circulating Tumor Cells. <i>Developmental Cell</i> , <b>2018</b> , 45, 33-52.e12	10.2	135
77	RAL-1 controls multivesicular body biogenesis and exosome secretion. <i>Journal of Cell Biology</i> , <b>2015</b> , 211, 27-37	7.3	130
76	Fluids and their mechanics in tumour transit: shaping metastasis. <i>Nature Reviews Cancer</i> , <b>2020</b> , 20, 107-124	13.3	117
75	Fluid flows and forces in development: functions, features and biophysical principles. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 1229-45	6.6	97
74	Studying the Fate of Tumor Extracellular Vesicles at High Spatiotemporal Resolution Using the Zebrafish Embryo. <i>Developmental Cell</i> , <b>2019</b> , 48, 554-572.e7	10.2	95
73	Mutations in signal recognition particle SRP54 cause syndromic neutropenia with Shwachman-Diamond-like features. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 4090-4103	15.9	89
72	Fast and precise targeting of single tumor cells in vivo by multimodal correlative microscopy. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 444-56	5.3	77
71	Metastasis of circulating tumor cells: favorable soil or suitable biomechanics, or both?. <i>Cell Adhesion and Migration</i> , <b>2015</b> , 9, 345-56	3.2	71

70	Fluorescent Polymer Nanoparticles for Cell Barcoding In Vitro and In Vivo. <i>Small</i> , <b>2017</b> , 13, 1701582	11	69
69	The absence of caveolin-1 increases proliferation and anchorage- independent growth by a Rac-dependent, Erk-independent mechanism. <i>Molecular and Cellular Biology</i> , <b>2009</b> , 29, 5046-59	4.8	67
68	Intravital Correlative Microscopy: Imaging Life at the Nanoscale. <i>Trends in Cell Biology</i> , <b>2016</b> , 26, 848-863	18.3	67
67	Integrity of lipid nanocarriers in bloodstream and tumor quantified by near-infrared ratiometric FRET imaging in living mice. <i>Journal of Controlled Release</i> , <b>2016</b> , 236, 57-67	11.7	65
66	Reversible interactions between smooth domains of the endoplasmic reticulum and mitochondria are regulated by physiological cytosolic Ca <sup>2+</sup> levels. <i>Journal of Cell Science</i> , <b>2007</b> , 120, 3553-64	5.3	57
65	Membrane Tension Orchestrates Rear Retraction in Matrix-Directed Cell Migration. <i>Developmental Cell</i> , <b>2019</b> , 51, 460-475.e10	10.2	50
64	The microenvironment controls invadosome plasticity. <i>Journal of Cell Science</i> , <b>2016</b> , 129, 1759-68	5.3	46
63	Seeing is believing - multi-scale spatio-temporal imaging towards in vivo cell biology. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 23-38	5.3	46
62	Interaction of the smooth endoplasmic reticulum and mitochondria. <i>Biochemical Society Transactions</i> , <b>2006</b> , 34, 370-3	5.1	45
61	Metastatic Tumor Cells Exploit Their Adhesion Repertoire to Counteract Shear Forces during Intravascular Arrest. <i>Cell Reports</i> , <b>2019</b> , 28, 2491-2500.e5	10.6	42
60	Zika virus enhances monocyte adhesion and transmigration favoring viral dissemination to neural cells. <i>Nature Communications</i> , <b>2019</b> , 10, 4430	17.4	41
59	Correlating intravital multi-photon microscopy to 3D electron microscopy of invading tumor cells using anatomical reference points. <i>PLoS ONE</i> , <b>2014</b> , 9, e114448	3.7	39
58	The power of imaging to understand extracellular vesicle biology in vivo. <i>Nature Methods</i> , <b>2021</b> , 18, 1013-1026	18.6	38
57	The Small GTPase Ral orchestrates MVB biogenesis and exosome secretion. <i>Small GTPases</i> , <b>2018</b> , 9, 445-451	4.7	27
56	Fibrillar cellular fibronectin supports efficient platelet aggregation and procoagulant activity. <i>Thrombosis and Haemostasis</i> , <b>2015</b> , 114, 1175-88	7	27
55	Going live with tumor exosomes and microvesicles. <i>Cell Adhesion and Migration</i> , <b>2017</b> , 11, 173-186	3.2	24
54	Find your way with X-Ray: Using microCT to correlate in vivo imaging with 3D electron microscopy. <i>Methods in Cell Biology</i> , <b>2017</b> , 140, 277-301	1.8	24
53	Extracellular Vesicles: Catching the Light in Zebrafish. <i>Trends in Cell Biology</i> , <b>2019</b> , 29, 770-776	18.3	24

52	Combining laser capture microdissection and proteomics reveals an active translation machinery controlling invadosome formation. <i>Nature Communications</i> , <b>2018</b> , 9, 2031	17.4	23
51	Ral GTPases promote breast cancer metastasis by controlling biogenesis and organ targeting of exosomes. <i>ELife</i> , <b>2021</b> , 10,	8.9	23
50	Bidirectional control of the inner dynamics of focal adhesions promotes cell migration. <i>Cell Adhesion and Migration</i> , <b>2009</b> , 3, 185-90	3.2	22
49	Mechanical Adaptability of Tumor Cells in Metastasis. <i>Developmental Cell</i> , <b>2021</b> , 56, 164-179	10.2	22
48	Multiscale Imaging of Metastasis in Zebrafish. <i>Trends in Cancer</i> , <b>2019</b> , 5, 766-778	12.5	20
47	Inhibition of PlexA1-mediated brain tumor growth and tumor-associated angiogenesis using a transmembrane domain targeting peptide. <i>Oncotarget</i> , <b>2016</b> , 7, 57851-57865	3.3	20
46	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. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 320, 1316-22	3.4	19
45	Nanocomposite Polymer Scaffolds Responding under External Stimuli for Drug Delivery and Tissue Engineering Applications. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 1900143	4.9	19
44	The Complexities of Metastasis. <i>Cancers</i> , <b>2019</b> , 11,	6.6	18
43	An Arf6- and caveolae-dependent pathway links hemidesmosome remodeling and mechanoreponse. <i>Molecular Biology of the Cell</i> , <b>2018</b> , 29, 435-451	3.5	17
42	Wrapped stellate silica nanocomposites as biocompatible luminescent nanoplatfoms assessed in vivo. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 542, 469-482	9.3	14
41	Generating and characterizing the mechanical properties of cell-derived matrices using atomic force microscopy. <i>Methods</i> , <b>2016</b> , 94, 85-100	4.6	13
40	Hemodynamic forces can be accurately measured in vivo with optical tweezers. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 3252-3260	3.5	13
39	Using correlative light and electron microscopy to study zebrafish vascular morphogenesis. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1189, 31-46	1.4	13
38	Near infra-red light responsive carbon nanotubes@mesoporous silica for photothermia and drug delivery to cancer cells. <i>Materials Today Chemistry</i> , <b>2020</b> , 17, 100308	6.2	13
37	Laminin $\alpha$ orchestrates VEGFA functions in the ecosystem of colorectal carcinoma. <i>Biology of the Cell</i> , <b>2018</b> , 110, 178	3.5	12
36	Metastases go with the flow. <i>Science</i> , <b>2018</b> , 362, 999-1000	33.3	12
35	Using the Zebrafish Embryo to Dissect the Early Steps of the Metastasis Cascade. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1749, 195-211	1.4	10

34	imaging of skeletal muscle in mice highlights muscle defects in a model of myotubular myopathy. <i>Intravital</i> , <b>2016</b> , 5, e1168553		7
33	Tracking Mechanisms of Viral Dissemination In Vivo. <i>Trends in Cell Biology</i> , <b>2021</b> , 31, 17-23	18.3	7
32	Tumor extracellular vesicles drive metastasis (it's a long way from home). <i>FASEB BioAdvances</i> , <b>2021</b> , 3, 930-943	2.8	7
31	Optimal Physicochemical Properties of Antibody-Nanoparticle Conjugates for Improved Tumor Targeting.. <i>Advanced Materials</i> , <b>2022</b> , e2110305	24	6
30	pH-specific sequestration of phosphoglucose isomerase/autocrine motility factor by fibronectin and heparan sulphate. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 4175-85	5.3	5
29	Impairing flow-mediated endothelial remodeling reduces extravasation of tumor cells. <i>Scientific Reports</i> , <b>2021</b> , 11, 13144	4.9	5
28	CD44 Orchestrates Metastatic Teamwork. <i>Developmental Cell</i> , <b>2018</b> , 47, 691-693	10.2	5
27	Intravital imaging technology guides FAK-mediated priming in pancreatic cancer precision medicine according to Merlin status. <i>Science Advances</i> , <b>2021</b> , 7, eabh0363	14.3	5
26	A quantitative approach to study endothelial cilia bending stiffness during blood flow mechanodetection in vivo. <i>Methods in Cell Biology</i> , <b>2015</b> , 127, 161-73	1.8	4
25	Live tracking of inter-organ communication by endogenous exosomes in vivo		4
24	Drug-Sponge Lipid Nanocarrier for in Situ Cargo Loading and Release Using Dynamic Covalent Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6573-6580	16.4	4
23	Exploiting Anatomical Landmarks for Efficient In Vivo CLEM. <i>Trends in Biochemical Sciences</i> , <b>2018</b> , 43, 744-747	10.3	3
22	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> , <b>2022</b> , 640, 128407	5.1	3
21	Hemodynamic forces tune the arrest, adhesion and extravasation of circulating tumor cells		3
20	Visualizing Cancer. <i>Cancer Cell</i> , <b>2020</b> , 38, 753-756	24.3	3
19	Fluid flows and forces in development: functions, features and biophysical principles. <i>Development (Cambridge)</i> , <b>2012</b> , 139, 3063-3063	6.6	2
18	Live tracking of extracellular vesicles in larval zebrafish. <i>Methods in Enzymology</i> , <b>2020</b> , 645, 243-275	1.7	2
17	Fluorescent nanocarriers targeting VCAM-1 for early detection of senescent endothelial cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2021</b> , 34, 102379	6	2

16	Foreword: physics of cell migration. <i>Cell Adhesion and Migration</i> , <b>2015</b> , 9, 325-6	3.2	1
15	Synergistic Mechano-Chemical Sensing by Vascular Cilia. <i>Trends in Cell Biology</i> , <b>2018</b> , 28, 507-508	18.3	1
14	Studying the fate of tumor extracellular vesicles at high spatio-temporal resolution using the zebrafish embryo		1
13	Laminin $\alpha$ orchestrates VEGFA functions in the ecosystem of colorectal carcinoma		1
12	An Arf6- and caveolae-dependent pathway links hemidesmosome remodeling and mechanoreponse		1
11	Imaging Single Tumor Cells in Mice Using Multimodal Correlative Microscopy. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 30-31	0.5	1
10	Nanoluminal Signaling Shapes Collective Metastasis. <i>Trends in Cancer</i> , <b>2021</b> , 7, 9-11	12.5	1
9	Drug-Sponge Lipid Nanocarrier for in Situ Cargo Loading and Release Using Dynamic Covalent Chemistry. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 6647-6654	3.6	1
8	Probing Intravascular Adhesion and Extravasation of Tumor Cells with Microfluidics. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2294, 111-132	1.4	1
7	The NANOTUMOR consortium - Towards the Tumor Cell Atlas. <i>Biology of the Cell</i> , <b>2021</b> , 113, 272-280	3.5	1
6	Leveraging Immunotherapy with Nanomedicine. <i>Advanced Therapeutics</i> , <b>2020</b> , 3, 2000134	4.9	1
5	Circulating tumor cells: Towards mechanical phenotyping of metastasis.. <i>iScience</i> , <b>2022</b> , 25, 103969	6.1	1
4	Liquid Biopsies: Flowing Biomarkers. <i>Advances in Experimental Medicine and Biology</i> , <b>2022</b> , 341-368	3.6	0
3	Multicellular cuddling in a stem cell niche. <i>Cell Adhesion and Migration</i> , <b>2015</b> , 9, 280-2	3.2	
2	Tracking tumor metastasis in vivo at high-resolution <b>2016</b> , 250-251		
1	Biomechanics: a driving force behind metastatic progression. <i>Comptes Rendus - Biologies</i> , <b>2021</b> , 344, 249-262		