

# Benjamin Geiger

## List of Publications by Year in descending order

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103  
papers

18,107  
citations

46984

47  
h-index

37183

96  
g-index

106  
all docs

106  
docs citations

106  
times ranked

18523  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new function for the serine protease HtrA2 in controlling radiation-induced senescence in cancer cells. <i>Molecular Oncology</i> , 2022, 16, 1365-1383.	2.1	1
2	Integrin $\alpha$ IIb $\beta$ 3 Activation and Clustering in Minimal Synthetic Cells. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	1.7	3
3	A Prediction Model to Prioritize Individuals for a SARS-CoV-2 Test Built from National Symptom Surveys. <i>Med</i> , 2021, 2, 196-208.e4.	2.2	23
4	Differential cellular responses to adhesive interactions with galectin-8- and fibronectin-coated substrates. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	16
5	An SNX10-dependent mechanism downregulates fusion between mature osteoclasts. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	11
6	Sorting Nexin 10 as a Key Regulator of Membrane Trafficking in Bone-Resorbing Osteoclasts: Lessons Learned From Osteopetrosis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 671210.	1.8	7
7	Biomechanical regulation of focal adhesion and invadopodia formation. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	57
8	ERBB2 drives YAP activation and EMT-like processes during cardiac regeneration. <i>Nature Cell Biology</i> , 2020, 22, 1346-1356.	4.6	130
9	Building an international consortium for tracking coronavirus health status. <i>Nature Medicine</i> , 2020, 26, 1161-1165.	15.2	23
10	High-Throughput Screen Identifies Host and Microbiota Regulators of Intestinal Barrier Function. <i>Gastroenterology</i> , 2020, 159, 1807-1823.	0.6	102
11	Massive osteopetrosis caused by non-functional osteoclasts in R51Q SNX10 mutant mice. <i>Bone</i> , 2020, 136, 115360.	1.4	10
12	A framework for identifying regional outbreak and spread of COVID-19 from one-minute population-wide surveys. <i>Nature Medicine</i> , 2020, 26, 634-638.	15.2	122
13	Multi-parametric characterization of drug effects on cells. <i>F1000Research</i> , 2020, 9, 1199.	0.8	2
14	Differential dynamics of early stages of platelet adhesion and spreading on collagen IV- and fibrinogen-coated surfaces. <i>F1000Research</i> , 2020, 9, 449.	0.8	6
15	Talin-activated vinculin interacts with branched actin networks to initiate bundles. <i>ELife</i> , 2020, 9, .	2.8	39
16	Differential dynamics of early stages of platelet adhesion and spreading on collagen IV- and fibrinogen-coated surfaces. <i>F1000Research</i> , 2020, 9, 449.	0.8	2
17	Multi-parametric characterization of drug effects on cells. <i>F1000Research</i> , 2020, 9, 1199.	0.8	2
18	Cooperativity between stromal cytokines drives the invasive migration of human breast cancer cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180231.	1.8	3

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19	Cross-Talk between Receptor Tyrosine Kinases AXL and ERBB3 Regulates Invadopodia Formation in Melanoma Cells. <i>Cancer Research</i> , 2019, 79, 2634-2648.	0.4	38
20	Differential Modulation of Platelet Adhesion and Spreading by Adhesive Ligand Density. <i>Nano Letters</i> , 2019, 19, 1418-1427.	4.5	23
21	Hyperglycemia drives intestinal barrier dysfunction and risk for enteric infection. <i>Science</i> , 2018, 359, 1376-1383.	6.0	582
22	Dual role of E-cadherin in the regulation of invasive collective migration of mammary carcinoma cells. <i>Scientific Reports</i> , 2018, 8, 4986.	1.6	53
23	Expansion and Antitumor Cytotoxicity of T-Cells Are Augmented by Substrate-Bound CCL21 and Intercellular Adhesion Molecule 1. <i>Frontiers in Immunology</i> , 2018, 9, 1303.	2.2	18
24	Altered p53 functionality in cancer-associated fibroblasts contributes to their cancer-supporting features. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6410-6415.	3.3	81
25	Dynamics of the sealing zone in cultured osteoclasts. <i>Cytoskeleton</i> , 2017, 74, 72-81.	1.0	17
26	A Comprehensive Evaluation of the Activity and Selectivity Profile of Ligands for RGD-binding Integrins. <i>Scientific Reports</i> , 2017, 7, 39805.	1.6	425
27	Surface microtopography modulates sealing zone development in osteoclasts cultured on bone. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160958.	1.5	15
28	Focal adhesion stabilization by enhanced integrin-cRGD binding affinity. <i>BioNanoMaterials</i> , 2017, 18, .	1.4	10
29	The role of Vimentin in Regulating Cell Invasive Migration in Dense Cultures of Breast Carcinoma Cells. <i>Nano Letters</i> , 2017, 17, 6941-6948.	4.5	55
30	Cover Image, Volume 74, Issue 2. <i>Cytoskeleton</i> , 2017, 74, C4-C4.	1.0	0
31	The Diverse Family of Arp2/3 Complexes. <i>Trends in Cell Biology</i> , 2017, 27, 93-100.	3.6	94
32	The inner workings of stress fibers—from contractile machinery to focal adhesions and back. <i>Journal of Cell Science</i> , 2016, 129, 1293-1304.	1.2	155
33	Multiscale View of Cytoskeletal Mechanoregulation of Cell and Tissue Polarity. <i>Handbook of Experimental Pharmacology</i> , 2016, 235, 263-284.	0.9	8
34	Selective binding and lateral clustering of $\alpha 5 \beta 1$ and $\alpha v \beta 3$ integrins: Unraveling the spatial requirements for cell spreading and focal adhesion assembly. <i>Cell Adhesion and Migration</i> , 2016, 10, 505-515.	1.1	37
35	The involvement of mutant Rac1 in the formation of invadopodia in cultured melanoma cells. <i>Experimental Cell Research</i> , 2016, 343, 82-88.	1.2	29
36	Synthetische Adhäsion von Integrin-Liposomen als minimales Zellmodell. <i>Angewandte Chemie</i> , 2015, 127, 12649-12655.	1.6	3

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37	Reduced matrix rigidity promotes neonatal cardiomyocyte dedifferentiation, proliferation and clonal expansion. <i>ELife</i> , 2015, 4, .	2.8	118
38	Mechanical interplay between invadopodia and the nucleus in cultured cancer cells. <i>Scientific Reports</i> , 2015, 5, 9466.	1.6	69
39	Osteoclast fusion is initiated by a small subset of RANKL-stimulated monocyte progenitors, which can fuse to RANKL-unstimulated progenitors. <i>Bone</i> , 2015, 79, 21-28.	1.4	52
40	Minimal Synthetic Cells to Study Integrin-Mediated Adhesion. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12472-12478.	7.2	29
41	The interplay between the proteolytic, invasive, and adhesive domains of invadopodia and their roles in cancer invasion. <i>Cell Adhesion and Migration</i> , 2014, 8, 215-225.	1.1	59
42	The integrin adhesome: from genes and proteins to human disease. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 273-288.	16.1	526
43	Regulation of focal adhesion formation by a vinculin-Arp2/3 hybrid complex. <i>Nature Communications</i> , 2014, 5, 3758.	5.8	106
44	Cell reorientation under cyclic stretching. <i>Nature Communications</i> , 2014, 5, 3938.	5.8	167
45	Engineering of synthetic cellular microenvironments: Implications for immunity. <i>Journal of Autoimmunity</i> , 2014, 54, 100-111.	3.0	33
46	Fibroblast polarization is a matrix-rigidity-dependent process controlled by focal adhesion mechanosensing. <i>Nature Cell Biology</i> , 2011, 13, 1457-1465.	4.6	473
47	Molecular Architecture and Function of Matrix Adhesions. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a005033-a005033.	2.3	441
48	Frontiers of microscopy-based research into cell-matrix adhesions. <i>Current Opinion in Cell Biology</i> , 2010, 22, 659-668.	2.6	47
49	The heel and toe of the cell's foot: A multifaceted approach for understanding the structure and dynamics of focal adhesions. <i>Cytoskeleton</i> , 2009, 66, 1017-1029.	4.4	107
50	Environmental sensing through focal adhesions. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 21-33.	16.1	2,205
51	Force-induced fibronectin fibrillogenesis in vitro. <i>Soft Matter</i> , 2008, 4, 1998.	1.2	52
52	Image acquisition and understanding in high-throughput high-resolution cell-based screening applications. , 2008, , .		0
53	A paxillin tyrosine phosphorylation switch regulates the assembly and form of cell-matrix adhesions. <i>Journal of Cell Science</i> , 2007, 120, 137-148.	1.2	402
54	High-throughput screening of cellular features using high-resolution light-microscopy; Application for profiling drug effects on cell adhesion. <i>Journal of Structural Biology</i> , 2007, 158, 233-243.	1.3	34

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55	Hyaluronan in the pericellular coat: an additional layer of complexity in early cell adhesion events. <i>Soft Matter</i> , 2007, 3, 327.	1.2	21
56	A Role for p130Cas in Mechanotransduction. <i>Cell</i> , 2006, 127, 879-881.	13.5	37
57	Development and Application of Automatic High-Resolution Light Microscopy for Cell-Based Screens. <i>Methods in Enzymology</i> , 2006, 414, 228-247.	0.4	31
58	The Location of Multiple Myeloma Adhesion Variants in Diverse Niches within the Bone Marrow Affects Plasma Cells Enumeration.. <i>Blood</i> , 2006, 108, 5063-5063.	0.6	0
59	Multi-Dimensional Flow Cytometric Analysis of Acute Myelomonocytic Leukemia: Evaluation of Disease Complexity and Effects on Host Hematopoiesis.. <i>Blood</i> , 2004, 104, 4458-4458.	0.6	0
60	Identification and Characterization of Adhesive and Non-Adhesive Sub-Populations of Multiple Myeloma.. <i>Blood</i> , 2004, 104, 4853-4853.	0.6	0
61	Exploring the Neighborhood. <i>Cell</i> , 2002, 110, 139-142.	13.5	388
62	Regulation of S33/S37 phosphorylated $\beta$ -catenin in normal and transformed cells. <i>Journal of Cell Science</i> , 2002, 115, 2771-2780.	1.2	103
63	Force and focal adhesion assembly: a close relationship studied using elastic micropatterned substrates. <i>Nature Cell Biology</i> , 2001, 3, 466-472.	4.6	1,924
64	Transmembrane crosstalk between the extracellular matrix and the cytoskeleton. <i>Nature Reviews Molecular Cell Biology</i> , 2001, 2, 793-805.	16.1	2,046
65	Cadherin Sequences That Inhibit $\beta$ -Catenin Signaling: A Study in Yeast and Mammalian Cells. <i>Molecular Biology of the Cell</i> , 2001, 12, 1177-1188.	0.9	52
66	Focal Contacts as Mechanosensors. <i>Journal of Cell Biology</i> , 2001, 153, 1175-1186.	2.3	1,331
67	Galectin-8 Functions as a Matricellular Modulator of Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2001, 276, 31285-31295.	1.6	153
68	pp60c-src and related tyrosine kinases: a role in the assembly and reorganization of matrix adhesions. <i>Journal of Cell Science</i> , 2001, 114, 2279-2289.	1.2	108
69	Components of cell-matrix adhesions. <i>Journal of Cell Science</i> , 2001, 114, 3577-3579.	1.2	163
70	Molecular complexity and dynamics of cell-matrix adhesions. <i>Journal of Cell Science</i> , 2001, 114, 3583-3590.	1.2	942
71	Disruption of microtubules in living cells by tyrphostin AG-1714. <i>Cytoskeleton</i> , 2000, 45, 223-234.	4.4	7
72	Differential interaction of plakoglobin and $\beta$ -catenin with the ubiquitin-proteasome system. <i>Oncogene</i> , 2000, 19, 1992-2001.	2.6	61

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73	Dynamics and segregation of cell-matrix adhesions in cultured fibroblasts. <i>Nature Cell Biology</i> , 2000, 2, 191-196.	4.6	652
74	Reversal of the Ras-Induced Transformed Phenotype by Hr12, a Novel Ras Farnesylation Inhibitor, Is Mediated by the Mek/ERK Pathway. <i>Journal of Cell Biology</i> , 2000, 151, 1179-1192.	2.3	26
75	Physical State of the Extracellular Matrix Regulates the Structure and Molecular Composition of Cell-Matrix Adhesions. <i>Molecular Biology of the Cell</i> , 2000, 11, 1047-1060.	0.9	390
76	p27 is involved in N-cadherin-mediated contact inhibition of cell growth and S-phase entry. <i>Oncogene</i> , 1999, 18, 869-876.	2.6	151
77	Differential Nuclear Translocation and Transactivation Potential of $\beta$ -Catenin and Plakoglobin. <i>Journal of Cell Biology</i> , 1998, 141, 1433-1448.	2.3	253
78	Direct Involvement of N-Cadherin-mediated Signaling in Muscle Differentiation. <i>Molecular Biology of the Cell</i> , 1998, 9, 3119-3131.	0.9	81
79	The prognostic application of cytokeratin typing of nonsmall cell lung carcinoma. , 1997, 79, 468-473.		6
80	Zebrafish cyclin E regulation during early embryogenesis. <i>Developmental Dynamics</i> , 1996, 206, 1-11.	0.8	21
81	Cell-Adhesion to Crystal Surfaces: Adhesion-Induced Physiological Cell Death. <i>Cell Adhesion and Communication</i> , 1996, 4, 341-353.	1.7	8
82	Augmentation of Adherens Junction Formation in Mesenchymal Cells by Co-expression of N-CAM or Short-term Stimulation of Tyrosine-phosphorylation. <i>Cell Adhesion and Communication</i> , 1994, 2, 481-490.	1.7	18
83	Effect of protein kinase inhibitor H-7 on the contractility, integrity, and membrane anchorage of the microfilament system. <i>Cytoskeleton</i> , 1994, 29, 321-338.	4.4	106
84	Structure and distribution of N-cadherin in developing zebrafish embryos: Morphogenetic effects of ectopic over-expression. <i>Developmental Dynamics</i> , 1994, 201, 121-136.	0.8	58
85	Variable and constant regions in the C-terminus of vinculin and metavinculin. <i>FEBS Letters</i> , 1993, 317, 189-194.	1.3	9
86	Cadherins. <i>Annual Review of Cell Biology</i> , 1992, 8, 307-332.	26.0	451
87	Overexpression of vinculin suppresses cell motility in BALB/c 3T3 cells. <i>Cytoskeleton</i> , 1992, 22, 127-134.	4.4	145
88	The cytoplasmic domain of adherens-type junctions. <i>Cytoskeleton</i> , 1991, 20, 1-6.	4.4	140
89	Cytokeratin polypeptide expression in a cloacogenic carcinoma and in the normal anal canal epithelium. <i>Virchows Archiv A, Pathological Anatomy and Histopathology</i> , 1991, 418, 447-455.	1.4	15
90	Characterization of an inhibitor of actin polymerization in vinculin-rich fraction of turkey gizzard smooth muscle. <i>FEBS Journal</i> , 1988, 178, 543-553.	0.2	108

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91	Cingulin, a new peripheral component of tight junctions. <i>Nature</i> , 1988, 333, 272-276.	13.7	490
92	Cytokeratin polypeptides expression in different epithelial elements of human salivary glands. <i>Virchows Archiv A, Pathological Anatomy and Histopathology</i> , 1987, 410, 403-414.	1.4	93
93	Looking for a function. <i>Nature</i> , 1987, 329, 392-393.	13.7	92
94	Antigenic interrelationship between the 40-kilodalton cytokeratin polypeptide and desmoplakins. <i>Cytoskeleton</i> , 1986, 6, 628-639.	4.4	46
95	Cell contact- and shape-dependent regulation of vinculin synthesis in cultured fibroblasts. <i>Nature</i> , 1986, 319, 787-791.	13.7	84
96	The dynamic interrelationships of actin and vinculin in cultured cells. <i>Cell Motility</i> , 1983, 3, 399-403.	1.9	13
97	Mapping of Distinct Structural Domains on Microtubule-Associated Protein 2 by Monoclonal Antibodies. <i>FEBS Journal</i> , 1982, 129, 295-302.	0.2	16
98	Dynamics of antibody- and lectin-mediated endocytosis of hapten-containing liposomes by murine macrophages. <i>European Journal of Immunology</i> , 1981, 11, 710-716.	1.6	20
99	Purification, Biochemical and Immunological Characterisation of Hexosaminidase A from Variant AB of Infantile GM2 Gangliosidosis. <i>FEBS Journal</i> , 1978, 84, 27-33.	0.2	35
100	Stabilization of Human beta-D-N-Acetylhexosaminidase A towards Proteolytic Inactivation by Coupling It to Poly(N-vinylpyrrolidone). <i>FEBS Journal</i> , 1977, 73, 141-147.	0.2	33
101	Specific Determination of N-Acetyl-beta-d-hexosaminidase Isozymes A and B by Radioimmunoassay and Radial Immunodiffusion. <i>FEBS Journal</i> , 1975, 56, 311-318.	0.2	18
102	Purification of human hexosaminidases A and B affinity chromatography. <i>FEBS Letters</i> , 1974, 45, 276-281.	1.3	32
103	Transmembrane crosstalk between the extracellular matrix and the cytoskeleton. , 0, .		1