

Benjamin Geiger

List of Publications by Year in descending order

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103
papers

18,107
citations

47006

47
h-index

37204

96
g-index

106
all docs

106
docs citations

106
times ranked

18523
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental sensing through focal adhesions. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 21-33.	37.0	2,205
2	Transmembrane crosstalk between the extracellular matrix and the cytoskeleton. <i>Nature Reviews Molecular Cell Biology</i> , 2001, 2, 793-805.	37.0	2,046
3	Force and focal adhesion assembly: a close relationship studied using elastic micropatterned substrates. <i>Nature Cell Biology</i> , 2001, 3, 466-472.	10.3	1,924
4	Focal Contacts as Mechanosensors. <i>Journal of Cell Biology</i> , 2001, 153, 1175-1186.	5.2	1,331
5	Molecular complexity and dynamics of cell-matrix adhesions. <i>Journal of Cell Science</i> , 2001, 114, 3583-3590.	2.0	942
6	Dynamics and segregation of cell-matrix adhesions in cultured fibroblasts. <i>Nature Cell Biology</i> , 2000, 2, 191-196.	10.3	652
7	Hyperglycemia drives intestinal barrier dysfunction and risk for enteric infection. <i>Science</i> , 2018, 359, 1376-1383.	12.6	582
8	The integrin adhesome: from genes and proteins to human disease. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 273-288.	37.0	526
9	Cingulin, a new peripheral component of tight junctions. <i>Nature</i> , 1988, 333, 272-276.	27.8	490
10	Fibroblast polarization is a matrix-rigidity-dependent process controlled by focal adhesion mechanosensing. <i>Nature Cell Biology</i> , 2011, 13, 1457-1465.	10.3	473
11	Cadherins. <i>Annual Review of Cell Biology</i> , 1992, 8, 307-332.	26.1	451
12	Molecular Architecture and Function of Matrix Adhesions. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a005033-a005033.	5.5	441
13	A Comprehensive Evaluation of the Activity and Selectivity Profile of Ligands for RGD-binding Integrins. <i>Scientific Reports</i> , 2017, 7, 39805.	3.3	425
14	A paxillin tyrosine phosphorylation switch regulates the assembly and form of cell-matrix adhesions. <i>Journal of Cell Science</i> , 2007, 120, 137-148.	2.0	402
15	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.	2.1	390
16	Exploring the Neighborhood. <i>Cell</i> , 2002, 110, 139-142.	28.9	388
17	Differential Nuclear Translocation and Transactivation Potential of β -Catenin and Plakoglobin. <i>Journal of Cell Biology</i> , 1998, 141, 1433-1448.	5.2	253
18	Cell reorientation under cyclic stretching. <i>Nature Communications</i> , 2014, 5, 3938.	12.8	167

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19	Components of cell-matrix adhesions. <i>Journal of Cell Science</i> , 2001, 114, 3577-3579.	2.0	163
20	The inner workings of stress fibers—from contractile machinery to focal adhesions and back. <i>Journal of Cell Science</i> , 2016, 129, 1293-1304.	2.0	155
21	Galectin-8 Functions as a Matricellular Modulator of Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2001, 276, 31285-31295.	3.4	153
22	p27 is involved in N-cadherin-mediated contact inhibition of cell growth and S-phase entry. <i>Oncogene</i> , 1999, 18, 869-876.	5.9	151
23	Overexpression of vinculin suppresses cell motility in BALB/c 3T3 cells. <i>Cytoskeleton</i> , 1992, 22, 127-134.	4.4	145
24	The cytoplasmic domain of adherens-type junctions. <i>Cytoskeleton</i> , 1991, 20, 1-6.	4.4	140
25	ERBB2 drives YAP activation and EMT-like processes during cardiac regeneration. <i>Nature Cell Biology</i> , 2020, 22, 1346-1356.	10.3	130
26	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.	30.7	122
27	Reduced matrix rigidity promotes neonatal cardiomyocyte dedifferentiation, proliferation and clonal expansion. <i>ELife</i> , 2015, 4, .	6.0	118
28	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
29	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.	2.0	108
30	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
31	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
32	Regulation of focal adhesion formation by a vinculin-Arp2/3 hybrid complex. <i>Nature Communications</i> , 2014, 5, 3758.	12.8	106
33	Regulation of S33/S37 phosphorylated β -catenin in normal and transformed cells. <i>Journal of Cell Science</i> , 2002, 115, 2771-2780.	2.0	103
34	High-Throughput Screen Identifies Host and Microbiota Regulators of Intestinal Barrier Function. <i>Gastroenterology</i> , 2020, 159, 1807-1823.	1.3	102
35	The Diverse Family of Arp2/3 Complexes. <i>Trends in Cell Biology</i> , 2017, 27, 93-100.	7.9	94
36	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

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37	Looking for a function. <i>Nature</i> , 1987, 329, 392-393.	27.8	92
38	Cell contact- and shape-dependent regulation of vinculin synthesis in cultured fibroblasts. <i>Nature</i> , 1986, 319, 787-791.	27.8	84
39	Direct Involvement of N-Cadherin-mediated Signaling in Muscle Differentiation. <i>Molecular Biology of the Cell</i> , 1998, 9, 3119-3131.	2.1	81
40	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.	7.1	81
41	Mechanical interplay between invadopodia and the nucleus in cultured cancer cells. <i>Scientific Reports</i> , 2015, 5, 9466.	3.3	69
42	Differential interaction of plakoglobin and β -catenin with the ubiquitin-proteasome system. <i>Oncogene</i> , 2000, 19, 1992-2001.	5.9	61
43	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.	2.7	59
44	Structure and distribution of N-cadherin in developing zebrafish embryos: Morphogenetic effects of ectopic over-expression. <i>Developmental Dynamics</i> , 1994, 201, 121-136.	1.8	58
45	Biomechanical regulation of focal adhesion and invadopodia formation. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	57
46	The role of Vimentin in Regulating Cell Invasive Migration in Dense Cultures of Breast Carcinoma Cells. <i>Nano Letters</i> , 2017, 17, 6941-6948.	9.1	55
47	Dual role of E-cadherin in the regulation of invasive collective migration of mammary carcinoma cells. <i>Scientific Reports</i> , 2018, 8, 4986.	3.3	53
48	Cadherin Sequences That Inhibit β -Catenin Signaling: A Study in Yeast and Mammalian Cells. <i>Molecular Biology of the Cell</i> , 2001, 12, 1177-1188.	2.1	52
49	Force-induced fibronectin fibrillogenesis in vitro. <i>Soft Matter</i> , 2008, 4, 1998.	2.7	52
50	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.	2.9	52
51	Frontiers of microscopy-based research into cell-matrix adhesions. <i>Current Opinion in Cell Biology</i> , 2010, 22, 659-668.	5.4	47
52	Antigenic interrelationship between the 40-kilodalton cytokeratin polypeptide and desmoplakins. <i>Cytoskeleton</i> , 1986, 6, 628-639.	4.4	46
53	Talin-activated vinculin interacts with branched actin networks to initiate bundles. <i>ELife</i> , 2020, 9, .	6.0	39
54	Cross-Talk between Receptor Tyrosine Kinases AXL and ERBB3 Regulates Invadopodia Formation in Melanoma Cells. <i>Cancer Research</i> , 2019, 79, 2634-2648.	0.9	38

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55	A Role for p130Cas in Mechanotransduction. <i>Cell</i> , 2006, 127, 879-881.	28.9	37
56	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.	2.7	37
57	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
58	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.	2.8	34
59	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
60	Engineering of synthetic cellular microenvironments: Implications for immunity. <i>Journal of Autoimmunity</i> , 2014, 54, 100-111.	6.5	33
61	Purification of human hexosaminidases A and B affinity chromatography. <i>FEBS Letters</i> , 1974, 45, 276-281.	2.8	32
62	Development and Application of Automatic High-Resolution Light Microscopy for Cell-Based Screens. <i>Methods in Enzymology</i> , 2006, 414, 228-247.	1.0	31
63	Minimal Synthetic Cells to Study Integrin-Mediated Adhesion. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12472-12478.	13.8	29
64	The involvement of mutant Rac1 in the formation of invadopodia in cultured melanoma cells. <i>Experimental Cell Research</i> , 2016, 343, 82-88.	2.6	29
65	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.	5.2	26
66	Differential Modulation of Platelet Adhesion and Spreading by Adhesive Ligand Density. <i>Nano Letters</i> , 2019, 19, 1418-1427.	9.1	23
67	Building an international consortium for tracking coronavirus health status. <i>Nature Medicine</i> , 2020, 26, 1161-1165.	30.7	23
68	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.	4.4	23
69	Zebrafish cyclin E regulation during early embryogenesis. <i>Developmental Dynamics</i> , 1996, 206, 1-11.	1.8	21
70	Hyaluronan in the pericellular coat: an additional layer of complexity in early cell adhesion events. <i>Soft Matter</i> , 2007, 3, 327.	2.7	21
71	Dynamics of antibody- and lectin-mediated endocytosis of hapten-containing liposomes by murine macrophages. <i>European Journal of Immunology</i> , 1981, 11, 710-716.	2.9	20
72	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

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73	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
74	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.	4.8	18
75	Dynamics of the sealing zone in cultured osteoclasts. <i>Cytoskeleton</i> , 2017, 74, 72-81.	2.0	17
76	Mapping of Distinct Structural Domains on Microtubule-Associated Protein 2 by Monoclonal Antibodies. <i>FEBS Journal</i> , 1982, 129, 295-302.	0.2	16
77	Differential cellular responses to adhesive interactions with galectin-8- and fibronectin-coated substrates. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	16
78	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
79	Surface microtopography modulates sealing zone development in osteoclasts cultured on bone. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160958.	3.4	15
80	The dynamic interrelationships of actin and vinculin in cultured cells. <i>Cell Motility</i> , 1983, 3, 399-403.	1.8	13
81	An SNX10-dependent mechanism downregulates fusion between mature osteoclasts. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	11
82	Focal adhesion stabilization by enhanced integrin-cRGD binding affinity. <i>BioNanoMaterials</i> , 2017, 18, .	1.4	10
83	Massive osteopetrosis caused by non-functional osteoclasts in R51Q SNX10 mutant mice. <i>Bone</i> , 2020, 136, 115360.	2.9	10
84	Variable and constant regions in the C-terminus of vinculin and metavinculin. <i>FEBS Letters</i> , 1993, 317, 189-194.	2.8	9
85	Cell-Adhesion to Crystal Surfaces: Adhesion-Induced Physiological Cell Death. <i>Cell Adhesion and Communication</i> , 1996, 4, 341-353.	1.7	8
86	Multiscale View of Cytoskeletal Mechanoregulation of Cell and Tissue Polarity. <i>Handbook of Experimental Pharmacology</i> , 2016, 235, 263-284.	1.8	8
87	Disruption of microtubules in living cells by tyrphostin AG-1714. <i>Cytoskeleton</i> , 2000, 45, 223-234.	4.4	7
88	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.	3.7	7
89	The prognostic application of cytokeratin typing of nonsmall cell lung carcinoma. , 1997, 79, 468-473.		6
90	Differential dynamics of early stages of platelet adhesion and spreading on collagen IV- and fibrinogen-coated surfaces. <i>F1000Research</i> , 2020, 9, 449.	1.6	6

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91	Synthetische Adh�sion von Integrin�Liposomen als minimales Zellmodell. Angewandte Chemie, 2015, 127, 12649-12655.	2.0	3
92	Cooperativity between stromal cytokines drives the invasive migration of human breast cancer cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180231.	4.0	3
93	Integrin α IIb β 3 Activation and Clustering in Minimal Synthetic Cells. Advanced NanoBiomed Research, 2022, 2, .	3.6	3
94	Multi-parametric characterization of drug effects on cells. F1000Research, 2020, 9, 1199.	1.6	2
95	Differential dynamics of early stages of platelet adhesion and spreading on collagen IV- and fibrinogen-coated surfaces. F1000Research, 2020, 9, 449.	1.6	2
96	Multi-parametric characterization of drug effects on cells. F1000Research, 2020, 9, 1199.	1.6	2
97	Transmembrane crosstalk between the extracellular matrix and the cytoskeleton. , 0, .		1
98	A new function for the serine protease HtrA2 in controlling radiation�induced senescence in cancer cells. Molecular Oncology, 2022, 16, 1365-1383.	4.6	1
99	Image acquisition and understanding in high-throughput high-resolution cell-based screening applications. , 2008, , .		0
100	Cover Image, Volume 74, Issue 2. Cytoskeleton, 2017, 74, C4-C4.	2.0	0
101	Multi-Dimensional Flow Cytometric Analysis of Acute Myelomonocytic Leukemia: Evaluation of Disease Complexity and Effects on Host Hematopoiesis.. Blood, 2004, 104, 4458-4458.	1.4	0
102	Identification and Characterization of Adhesive and Non-Adhesive Sub-Populations of Multiple Myeloma.. Blood, 2004, 104, 4853-4853.	1.4	0
103	The Location of Multiple Myeloma Adhesion Variants in Diverse Niches within the Bone Marrow Affects Plasma Cells Enumeration.. Blood, 2006, 108, 5063-5063.	1.4	0