

Paolo P Provenzano

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6851700/paolo-p-provenzano-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

44
papers

6,976
citations

26
h-index

49
g-index

49
ext. papers

8,148
ext. citations

7
avg, IF

5.88
L-index

#	Paper	IF	Citations
44	Enzymatic targeting of the stroma ablates physical barriers to treatment of pancreatic ductal adenocarcinoma. <i>Cancer Cell</i> , 2012 , 21, 418-29	24.3	1309
43	Collagen reorganization at the tumor-stromal interface facilitates local invasion. <i>BMC Medicine</i> , 2006 , 4, 38	11.4	1127
42	Collagen density promotes mammary tumor initiation and progression. <i>BMC Medicine</i> , 2008 , 6, 11	11.4	904
41	Aligned collagen is a prognostic signature for survival in human breast carcinoma. <i>American Journal of Pathology</i> , 2011 , 178, 1221-32	5.8	763
40	Matrix nanotopography as a regulator of cell function. <i>Journal of Cell Biology</i> , 2012 , 197, 351-60	7.3	463
39	Contact guidance mediated three-dimensional cell migration is regulated by Rho/ROCK-dependent matrix reorganization. <i>Biophysical Journal</i> , 2008 , 95, 5374-84	2.9	374
38	Mechanical signaling through the cytoskeleton regulates cell proliferation by coordinated focal adhesion and Rho GTPase signaling. <i>Journal of Cell Science</i> , 2011 , 124, 1195-205	5.3	354
37	Collagen fibril morphology and organization: implications for force transmission in ligament and tendon. <i>Matrix Biology</i> , 2006 , 25, 71-84	11.4	257
36	Subfailure damage in ligament: a structural and cellular evaluation. <i>Journal of Applied Physiology</i> , 2002 , 92, 362-71	3.7	154
35	Multiphoton microscopy and fluorescence lifetime imaging microscopy (FLIM) to monitor metastasis and the tumor microenvironment. <i>Clinical and Experimental Metastasis</i> , 2009 , 26, 357-70	4.7	151
34	Anisotropic forces from spatially constrained focal adhesions mediate contact guidance directed cell migration. <i>Nature Communications</i> , 2017 , 8, 14923	17.4	145
33	Mammary epithelial-specific disruption of focal adhesion kinase retards tumor formation and metastasis in a transgenic mouse model of human breast cancer. <i>American Journal of Pathology</i> , 2008 , 173, 1551-65	5.8	115
32	Enhanced Directional Migration of Cancer Stem Cells in 3D Aligned Collagen Matrices. <i>Biophysical Journal</i> , 2017 , 112, 1023-1036	2.9	95
31	Interstitial Pressure in Pancreatic Ductal Adenocarcinoma Is Dominated by a Gel-Fluid Phase. <i>Biophysical Journal</i> , 2016 , 110, 2106-19	2.9	86
30	Antifibrotic Therapy Disrupts Stromal Barriers and Modulates the Immune Landscape in Pancreatic Ductal Adenocarcinoma. <i>Cancer Research</i> , 2019 , 79, 372-386	10.1	75
29	The role of focal adhesion kinase in tumor initiation and progression. <i>Cell Adhesion and Migration</i> , 2009 , 3, 347-50	3.2	62
28	Nonlinear optical imaging of cellular processes in breast cancer. <i>Microscopy and Microanalysis</i> , 2008 , 14, 532-48	0.5	50

27	Shining new light on 3D cell motility and the metastatic process. <i>Trends in Cell Biology</i> , 2009 , 19, 638-48	18.3	48
26	Nonlinear optical imaging and spectral-lifetime computational analysis of endogenous and exogenous fluorophores in breast cancer. <i>Journal of Biomedical Optics</i> , 2008 , 13, 031220	3.5	48
25	Intrinsic fibroblast-mediated remodeling of damaged collagenous matrices in vivo. <i>Matrix Biology</i> , 2005 , 23, 543-55	11.4	48
24	Hindlimb unloading alters ligament healing. <i>Journal of Applied Physiology</i> , 2003 , 94, 314-24	3.7	48
23	Systemic administration of IGF-I enhances healing in collagenous extracellular matrices: evaluation of loaded and unloaded ligaments. <i>BMC Physiology</i> , 2007 , 7, 2	0	43
22	Bimodal sensing of guidance cues in mechanically distinct microenvironments. <i>Nature Communications</i> , 2018 , 9, 4891	17.4	31
21	Microtubule-Actomyosin Mechanical Cooperation during Contact Guidance Sensing. <i>Cell Reports</i> , 2018 , 25, 328-338.e5	10.6	28
20	Dynamics of 3D carcinoma cell invasion into aligned collagen. <i>Integrative Biology (United Kingdom)</i> , 2018 , 10, 100-112	3.7	26
19	Multiscale Cues Drive Collective Cell Migration. <i>Scientific Reports</i> , 2016 , 6, 29749	4.9	26
18	Loss of HIF1A From Pancreatic Cancer Cells Increases Expression of PPP1R1B and Degradation of p53 to Promote Invasion and Metastasis. <i>Gastroenterology</i> , 2020 , 159, 1882-1897.e5	13.3	25
17	Application of a probabilistic microstructural model to determine reference length and toe-to-linear region transition in fibrous connective tissue. <i>Journal of Biomechanical Engineering</i> , 2003 , 125, 415-22	2.1	24
16	Heterogeneous Differentiation of Human Mesenchymal Stem Cells in 3D Extracellular Matrix Composites. <i>BioResearch Open Access</i> , 2016 , 5, 37-48	2.4	22
15	Engineering T cells to enhance 3D migration through structurally and mechanically complex tumor microenvironments. <i>Nature Communications</i> , 2021 , 12, 2815	17.4	13
14	Physical and Chemical Enhancement of and Adaptive Resistance to Irreversible Electroporation of Pancreatic Cancer. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 25-36	4.7	12
13	Fibrillar Collagen Quantification With Curvelet Transform Based Computational Methods. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 198	5.8	11
12	Multiphoton fluorescence lifetime imaging of chemotherapy distribution in solid tumors. <i>Journal of Biomedical Optics</i> , 2017 , 22, 1-9	3.5	10
11	Non-Invasive Monitoring of Stromal Biophysics with Targeted Depletion of Hyaluronan in Pancreatic Ductal Adenocarcinoma. <i>Cancers</i> , 2019 , 11,	6.6	8
10	Aligned Forces: Origins and mechanisms of cancer dissemination guided by extracellular matrix architecture. <i>Current Opinion in Cell Biology</i> , 2021 , 72, 63-71	9	7

9	Engineering Elastic Nano- and Micro-Patterns and Textures for Directed Cell Motility. <i>STAR Protocols</i> , 2020 , 1, 100013-100013	1.4	3
8	Bringing order to the matrix. <i>Nature Materials</i> , 2020 , 19, 130-131	2.7	2
7	The role of nonmuscle myosin 2A and 2B in the regulation of mesenchymal cell contact guidance. <i>Molecular Biology of the Cell</i> , 2019 , 30, 1961-1973	3.5	2
6	Engineering T cells to enhance 3D migration through structurally and mechanically complex tumor microenvironments		
5	Cancer Stem Cell Migration in Three-Dimensional Aligned Collagen Matrices. <i>Current Protocols in Stem Cell Biology</i> , 2018 , 46, e57	2.8	2
4	Modeling distributed forces within cell adhesions of varying size on continuous substrates. <i>Cytoskeleton</i> , 2019 , 76, 571-585	2.4	1
3	Tug of War at the Cell-Matrix Interface. <i>Biophysical Journal</i> , 2017 , 112, 1739-1741	2.9	0
2	Characterizing Tissue Remodeling and Mechanical Heterogeneity in Cerebral Aneurysms. <i>Journal of Vascular Research</i> , 2021 , 1-9	1.9	0
1	Elucidating the signal for contact guidance contained in aligned fibrils with a microstructural-mechanical model.. <i>Journal of the Royal Society Interface</i> , 2022 , 19, 20210951	4.1	