

# Konstantinos Konstantopoulos

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

2,911  
citations

236612

25  
h-index

243296

44  
g-index

49  
all docs

49  
docs citations

49  
times ranked

4110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cancer cell motility: lessons from migration in confined spaces. <i>Nature Reviews Cancer</i> , 2017, 17, 131-140.	12.8	465
2	Water Permeation Drives Tumor Cell Migration in Confined Microenvironments. <i>Cell</i> , 2014, 157, 611-623.	13.5	416
3	Physical confinement alters tumor cell adhesion and migration phenotypes. <i>FASEB Journal</i> , 2012, 26, 4045-4056.	0.2	227
4	Cancer Cells in Transit: The Vascular Interactions of Tumor Cells. <i>Annual Review of Biomedical Engineering</i> , 2009, 11, 177-202.	5.7	193
5	Piezo2 channel regulates RhoA and actin cytoskeleton to promote cell mechanobiological responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1925-1930.	3.3	158
6	Distinct signaling mechanisms regulate migration in unconfined versus confined spaces. <i>Journal of Cell Biology</i> , 2013, 202, 807-824.	2.3	137
7	Confinement Sensing and Signal Optimization via Piezo1/PKA and Myosin II Pathways. <i>Cell Reports</i> , 2016, 15, 1430-1441.	2.9	137
8	A microfluidic assay for the quantification of the metastatic propensity of breast cancer specimens. <i>Nature Biomedical Engineering</i> , 2019, 3, 452-465.	11.6	85
9	Microtubules tune mechanotransduction through NOX2 and TRPV4 to decrease sclerostin abundance in osteocytes. <i>Science Signaling</i> , 2017, 10, .	1.6	80
10	<i>HER2</i> missense mutations have distinct effects on oncogenic signaling and migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6205-14.	3.3	69
11	Confinement hinders motility by inducing RhoA-mediated nuclear influx, volume expansion, and blebbing. <i>Journal of Cell Biology</i> , 2019, 218, 4093-4111.	2.3	64
12	Receptorâ€“ligand binding: â€“catchâ€™ bonds finally caught. <i>Current Biology</i> , 2003, 13, R611-R613.	1.8	61
13	The importance of water and hydraulic pressure in cell dynamics. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	57
14	Cell sensing and decision-making in confinement: The role of TRPM7 in a tug of war between hydraulic pressure and cross-sectional area. <i>Science Advances</i> , 2019, 5, eaaw7243.	4.7	56
15	The fluid shear stress sensor TRPM7 regulates tumor cell intravasation. <i>Science Advances</i> , 2021, 7, .	4.7	56
16	By activating matrix metalloproteinase-7, shear stress promotes chondrosarcoma cell motility, invasion and lung colonization. <i>Oncotarget</i> , 2015, 6, 9140-9159.	0.8	48
17	Interplay of the physical microenvironment, contact guidance, and intracellular signaling in cell decision making. <i>FASEB Journal</i> , 2016, 30, 2161-2170.	0.2	43
18	Dorsoventral polarity directs cell responses to migration track geometries. <i>Science Advances</i> , 2020, 6, eaba6505.	4.7	39

#	ARTICLE	IF	CITATIONS
19	A microfluidic cell-migration assay for the prediction of progression-free survival and recurrence time of patients with glioblastoma. <i>Nature Biomedical Engineering</i> , 2021, 5, 26-40.	11.6	38
20	Bioengineering paradigms for cell migration in confined microenvironments. <i>Current Opinion in Cell Biology</i> , 2014, 30, 41-50.	2.6	37
21	A Direct Podocalyxin-Dynamin-2 Interaction Regulates Cytoskeletal Dynamics to Promote Migration and Metastasis in Pancreatic Cancer Cells. <i>Cancer Research</i> , 2019, 79, 2878-2891.	0.4	36
22	Cancer cells display increased migration and deformability in pace with metastatic progression. <i>FASEB Journal</i> , 2020, 34, 9307-9315.	0.2	33
23	By suppressing the expression of anterior pharynx-defective 1± and 1² and inhibiting the aggregation of 1² amyloid protein, magnesium ions inhibit the cognitive decline of amyloid precursor protein/presenilin 1 transgenic mice. <i>FASEB Journal</i> , 2015, 29, 5044-5058.	0.2	32
24	Class 3 semaphorins induce F-actin reorganization in human dendritic cells: Role in cell migration. <i>Journal of Leukocyte Biology</i> , 2016, 100, 1323-1334.	1.5	32
25	Time-lapse lens-free imaging of cell migration in diverse physical microenvironments. <i>Lab on A Chip</i> , 2016, 16, 3304-3316.	3.1	29
26	The Role of Cyclooxygenase-2, Interleukin-1² and Fibroblast Growth Factor-2 in the Activation of Matrix Metalloproteinase-1 in Sheared-Chondrocytes and Articular Cartilage. <i>Scientific Reports</i> , 2015, 5, 10412.	1.6	27
27	Knockdown of 1±2,3-Sialyltransferases Impairs Pancreatic Cancer Cell Migration, Invasion and E-selectin-Dependent Adhesion. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6239.	1.8	27
28	Distinct Kinetic and Molecular Requirements Govern CD44 Binding to Hyaluronan versus Fibrin(ogen). <i>Biophysical Journal</i> , 2012, 103, 415-423.	0.2	23
29	Kidney epithelial cells are active mechano-biological fluid pumps. <i>Nature Communications</i> , 2022, 13, 2317.	5.8	23
30	Dimensional Control of Cancer Cell Migration. <i>Biophysical Journal</i> , 2013, 104, 279-280.	0.2	21
31	Interleukin-1² and cyclic AMP mediate the invasion of sheared chondrosarcoma cells via a matrix metalloproteinase-1-dependent mechanism. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 923-933.	1.9	21
32	Hydraulic resistance induces cell phenotypic transition in confinement. <i>Science Advances</i> , 2021, 7, .	4.7	17
33	E-selectin-mediated rolling facilitates pancreatic cancer cell adhesion to hyaluronic acid. <i>FASEB Journal</i> , 2017, 31, 5078-5086.	0.2	16
34	Local 3D matrix confinement determines division axis through cell shape. <i>Oncotarget</i> , 2016, 7, 6994-7011.	0.8	16
35	Myosin 10 Regulates Invasion, Mitosis, and Metabolic Signaling in Glioblastoma. <i>IScience</i> , 2020, 23, 101802.	1.9	14
36	Giant obscurins regulate the PI3K cascade in breast epithelial cells via direct binding to the PI3K/p85 regulatory subunit. <i>Oncotarget</i> , 2016, 7, 45414-45428.	0.8	14

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37	Giant obscurin regulates migration and metastasis via RhoA-dependent cytoskeletal remodeling in pancreatic cancer. <i>Cancer Letters</i> , 2022, 526, 155-167.	3.2	13
38	Characterization of Monobody Scaffold Interactions with Ligand via Force Spectroscopy and Steered Molecular Dynamics. <i>Scientific Reports</i> , 2015, 5, 8247.	1.6	11
39	TrkA overexpression in non-tumorigenic human breast cell lines confers oncogenic and metastatic properties. <i>Breast Cancer Research and Treatment</i> , 2020, 179, 631-642.	1.1	10
40	Distinct kinetic and mechanical properties govern mucin 16- and podocalyxin-mediated tumor cell adhesion to E- and L-selectin in shear flow. <i>Oncotarget</i> , 2015, 6, 24842-24855.	0.8	10
41	Sarcomeric deficits underlie MYBPC1-associated myopathy with myogenic tremor. <i>JCI Insight</i> , 2021, 6, .	2.3	8
42	Hematogenous Metastasis: Roles of CD44v and Alternative Sialofucosylated Selectin Ligands. <i>Advances in Experimental Medicine and Biology</i> , 2011, 705, 601-619.	0.8	4
43	Exposing Cell-Itary Confinement: Understanding the Mechanisms of Confined Single Cell Migration. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1092, 139-157.	0.8	2
44	Intrinsic epigenetic control of angiogenesis in induced pluripotent stem cell-derived endothelium regulates vascular regeneration. <i>Npj Regenerative Medicine</i> , 2022, 7, 28.	2.5	2
45	Preface to Special Issue: "Glycomechanics: Sugar Coating Blood Cell" Endothelial Interactions in Shear Flow. <i>Annals of Biomedical Engineering</i> , 2012, 40, 764-765.	1.3	0
46	The Interplay of Osmotic Engine Model and Actin Polymerization in Confined Cell Migration. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, SY87-1.	0.0	0