

Ming-Jer Tang

List of Publications by Year in descending order

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70
papers

3,039
citations

126907

33
h-index

168389

53
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70
all docs

70
docs citations

70
times ranked

4958
citing authors

#	ARTICLE	IF	CITATIONS
1	Vimentin contributes to epithelial-mesenchymal transition cancer cell mechanics by mediating cytoskeletal organization and focal adhesion maturation. <i>Oncotarget</i> , 2015, 6, 15966-15983.	1.8	395
2	Rapamycin attenuates unilateral ureteral obstruction-induced renal fibrosis. <i>Kidney International</i> , 2006, 69, 2029-2036.	5.2	148
3	Mechanical phenotype of cancer cells: cell softening and loss of stiffness sensing. <i>Oncotarget</i> , 2015, 6, 20946-20958.	1.8	140
4	Mechanotransduction of matrix stiffness in regulation of focal adhesion size and number: reciprocal regulation of caveolin-1 and β_1 integrin. <i>Scientific Reports</i> , 2017, 7, 15008.	3.3	119
5	The tension biology of wound healing. <i>Experimental Dermatology</i> , 2019, 28, 464-471.	2.9	116
6	Transforming Growth Factor- β_1 Induces Smad3-Dependent β_1 Integrin Gene Expression in Epithelial-to-Mesenchymal Transition during Chronic Tubulointerstitial Fibrosis. <i>American Journal of Pathology</i> , 2010, 177, 1743-1754.	3.8	113
7	A Discoidin Domain Receptor 1/SHP-2 Signaling Complex Inhibits β_1 -Integrin-mediated Signal Transducers and Activators of Transcription 1/3 Activation and Cell Migration. <i>Molecular Biology of the Cell</i> , 2006, 17, 2839-2852.	2.1	94
8	Bcl-2 overexpression prevents apoptosis-induced Madin-Darby canine kidney simple epithelial cyst formation. <i>Kidney International</i> , 1999, 55, 168-178.	5.2	79
9	Mechanical forces in skin disorders. <i>Journal of Dermatological Science</i> , 2018, 90, 232-240.	1.9	78
10	Caveolin-1 Controls Hyperresponsiveness to Mechanical Stimuli and Fibrogenesis-Associated RUNX2 Activation in Keloid Fibroblasts. <i>Journal of Investigative Dermatology</i> , 2018, 138, 208-218.	0.7	74
11	DDR1 triggers epithelial cell differentiation by promoting cell adhesion through stabilization of E-cadherin. <i>Molecular Biology of the Cell</i> , 2011, 22, 940-953.	2.1	73
12	Mechanosensing machinery for cells under low substratum rigidity. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C1579-C1589.	4.6	68
13	Albumin stimulates renal tubular inflammation through a HSP70-TLR4 axis in early diabetic nephropathy. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 1311-21.	2.4	66
14	Rigidity of Collagen Fibrils Controls Collagen Gel-induced Down-regulation of Focal Adhesion Complex Proteins Mediated by β_1 Integrin. <i>Journal of Biological Chemistry</i> , 2003, 278, 21886-21892.	3.4	64
15	A tale of two collagen receptors, integrin β_1 and discoidin domain receptor 1, in epithelial cell differentiation. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C1207-C1217.	4.6	64
16	The Influence of Physical and Physiological Cues on Atomic Force Microscopy-Based Cell Stiffness Assessment. <i>PLoS ONE</i> , 2013, 8, e77384.	2.5	58
17	Mouse Kidney Progenitor Cells Accelerate Renal Regeneration and Prolong Survival after Ischemic Injury. <i>Stem Cells</i> , 2010, 28, 573-584.	3.2	56
18	Discoidin domain receptor 1 activation suppresses β_2 integrin-dependent cell spreading through inhibition of Cdc42 activity. <i>Journal of Cellular Physiology</i> , 2009, 218, 146-156.	4.1	55

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19	Function of discoidin domain receptor I in HGF-induced branching tubulogenesis of MDCK cells in collagen gel. <i>Journal of Cellular Physiology</i> , 2005, 203, 295-304.	4.1	53
20	Mechanical properties of collagen gels derived from rats of different ages. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 1261-1275.	3.5	53
21	Coincidence Detection of Membrane Stretch and Extracellular pH by the Proton-Sensing Receptor OGR1 (GPR68). <i>Current Biology</i> , 2018, 28, 3815-3823.e4.	3.9	52
22	DDR1/E-cadherin complex regulates the activation of DDR1 and cell spreading. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C419-C429.	4.6	50
23	DDR1 regulates the stabilization of cell surface E-cadherin and E-cadherin-mediated cell aggregation. <i>Journal of Cellular Physiology</i> , 2010, 224, 387-397.	4.1	50
24	Regulation of proximal tubular cell differentiation and proliferation in primary culture by matrix stiffness and ECM components. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, F695-F707.	2.7	50
25	A nanopatterned cell-seeded cardiac patch prevents electro-uncoupling and improves the therapeutic efficacy of cardiac repair. <i>Biomaterials Science</i> , 2014, 2, 567.	5.4	45
26	Enhancement of Renal Epithelial Cell Functions through Microfluidic-Based Coculture with Adipose-Derived Stem Cells. <i>Tissue Engineering - Part A</i> , 2013, 19, 2024-2034.	3.1	42
27	Time Series Integrative Analysis of RNA Sequencing and MicroRNA Expression Data Reveals Key Biologic Wound Healing Pathways in Keloid-Prone Individuals. <i>Journal of Investigative Dermatology</i> , 2018, 138, 2690-2693.	0.7	41
28	Matrix-Stiffness Regulated Inverse Expression of Kr ^{1/4} ppel-Like Factor 5 and Kr ^{1/4} ppel-Like Factor 4 in the Pathogenesis of Renal Fibrosis. <i>American Journal of Pathology</i> , 2015, 185, 2468-2481.	3.8	40
29	Symmetry breaking of tissue mechanics in wound induced hair follicle regeneration of laboratory and spiny mice. <i>Nature Communications</i> , 2021, 12, 2595.	12.8	40
30	Cell Confluence-induced Activation of Signal Transducer and Activator of Transcription-3 (Stat3) Triggers Epithelial Dome Formation via Augmentation of Sodium Hydrogen Exchanger-3 (NHE3) Expression. <i>Journal of Biological Chemistry</i> , 2007, 282, 9883-9894.	3.4	37
31	Role of fibronectin deposition in branching morphogenesis of Madin-Darby canine kidney cells. <i>Kidney International</i> , 2000, 57, 1860-1867.	5.2	36
32	Collagen gel overlay induces apoptosis of polarized cells in cultures: disoriented cell death. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 275, C921-C931.	4.6	35
33	Soft Substrate Up-regulates the Interaction of STIM1 with Store-operated Ca ²⁺ Channels That Lead to Normal Epithelial Cell Apoptosis. <i>Molecular Biology of the Cell</i> , 2008, 19, 2220-2230.	2.1	35
34	Bcl-2 regulates store-operated Ca ²⁺ entry to modulate ER stress-induced apoptosis. <i>Cell Death Discovery</i> , 2018, 4, 37.	4.7	35
35	Mechanosensitive store-operated calcium entry regulates the formation of cell polarity. <i>Journal of Cellular Physiology</i> , 2015, 230, 2086-2097.	4.1	34
36	Dichotomy of the function of DDR1 in cells and disease progression. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 118473.	4.1	33

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37	Mechanical coupling of cytoskeletal elasticity and force generation is crucial for understanding the migrating nature of keloid fibroblasts. <i>Experimental Dermatology</i> , 2015, 24, 579-584.	2.9	32
38	GEF-H1 controls focal adhesion signaling that regulates mesenchymal stem cell lineage commitment. <i>Journal of Cell Science</i> , 2014, 127, 4186-200.	2.0	29
39	Deregulation of AP-1 Proteins in Collagen Gel-induced Epithelial Cell Apoptosis Mediated by Low Substratum Rigidity. <i>Journal of Biological Chemistry</i> , 2007, 282, 752-763.	3.4	28
40	Age effect of type I collagen on morphogenesis of Mardin-Darby canine kidney cells. <i>Kidney International</i> , 2000, 57, 1539-1548.	5.2	27
41	Cell confluency-induced Stat3 activation regulates NHE3 expression by recruiting Sp1 and Sp3 to the proximal NHE3 promoter region during epithelial dome formation. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C13-C24.	4.6	26
42	Role of fibronectin deposition in cystogenesis of Madin-Darby canine kidney cells. <i>Kidney International</i> , 1999, 56, 92-103.	5.2	23
43	Role of $\alpha 3 \beta 1$ integrin in tubulogenesis of Madin-Darby canine kidney cells. <i>Kidney International</i> , 2001, 59, 1770-1778.	5.2	22
44	Role of Apoptosis in Growth and Differentiation of Proximal Tubule Cells in Primary Cultures. <i>Biochemical and Biophysical Research Communications</i> , 1996, 218, 658-664.	2.1	19
45	Migration speed and directionality switch of normal epithelial cells after TGF- $\beta 1$ -induced EMT (tEMT) on micro-structured polydimethylsiloxane (PDMS) substrates with variations in stiffness and topographic patterning. <i>Cell Communication and Adhesion</i> , 2013, 20, 115-126.	1.0	19
46	DDR1 promotes E-cadherin stability via inhibition of integrin- $\beta 1$ -Src activation-mediated E-cadherin endocytosis. <i>Scientific Reports</i> , 2016, 6, 36336.	3.3	19
47	<i>Vibrio vulnificus</i> MARTX cytotoxin causes inactivation of phagocytosis-related signaling molecules in macrophages. <i>Journal of Biomedical Science</i> , 2017, 24, 58.	7.0	18
48	Hepatocyte growth factor upregulates $\alpha 2 \beta 1$ integrin in Madin-Darby canine kidney cells: Implications in tubulogenesis. <i>Journal of Biomedical Science</i> , 2002, 9, 261-272.	7.0	17
49	Collagen gel overlay induces two phases of apoptosis in MDCK cells. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 280, C1440-C1448.	4.6	16
50	Caveolin-1 Alters the Pattern of Cytoplasmic Ca^{2+} Oscillations and Ca^{2+} -dependent Gene Expression by Enhancing Leukotriene Receptor Desensitization. <i>Journal of Biological Chemistry</i> , 2014, 289, 17843-17853.	3.4	13
51	PPAR γ activation improves the microenvironment of perivascular adipose tissue and attenuates aortic stiffening in obesity. <i>Journal of Biomedical Science</i> , 2021, 28, 22.	7.0	13
52	Soft substrate induces apoptosis by the disturbance of Ca^{2+} homeostasis in renal epithelial LLC-PK1 cells. <i>Journal of Cellular Physiology</i> , 2007, 212, 401-410.	4.1	12
53	Role of Excessive Autophagy Induced by Mechanical Overload in Vein Graft Neointima Formation: Prediction and Prevention. <i>Scientific Reports</i> , 2016, 6, 22147.	3.3	12
54	Inflammation-induced macrophage lysyl oxidase in adipose stiffening and dysfunction in obesity. <i>Clinical and Translational Medicine</i> , 2021, 11, e543.	4.0	11

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55	TRANSIENT APOPTOSIS ELICITED BY INSULIN IN SERUM-STARVED GLIOMA CELLS INVOLVES Fas/Fas-L AND Bcl-2. Cell Biology International, 1999, 23, 533-540.	3.0	10
56	Activation of caspase-8 and Erk-1/2 in domes regulates cell death induced by confluence in MDCK cells. Journal of Cellular Physiology, 2007, 211, 174-182.	4.1	8
57	Low substratum rigidity of collagen gel promotes ERK phosphorylation via lipid raft to augment cell migration. Journal of Cellular Biochemistry, 2008, 103, 1111-1124.	2.6	8
58	Intracellular alkalinization in dexamethasone-induced thymocyte apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 1997, 2, 304-312.	4.9	7
59	VEGF-Induced Endothelial Podosomes via ROCK2-Dependent Thrombomodulin Expression Initiate Sprouting Angiogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 1657-1671.	2.4	7
60	Spatial distribution of filament elasticity determines the migratory behaviors of a cell. Cell Adhesion and Migration, 2016, 10, 368-377.	2.7	6
61	Caveolin-1 down-regulation is required for Wnt5a-Frizzled 2 signalling in Ha-Ras ^{V12} -induced cell transformation. Journal of Cellular and Molecular Medicine, 2018, 22, 2631-2643.	3.6	5
62	Androgenetic alopecia is associated with increased scalp hardness. Journal of the European Academy of Dermatology and Venereology, 2020, 34, e234-e236.	2.4	4
63	Adipose tissue stiffness in the development of metabolic diseases. FASEB Journal, 2022, 36, .	0.5	3
64	The Pathophysiologic Role of Gelsolin in Chronic Kidney Disease: Focus on Podocytes. International Journal of Molecular Sciences, 2021, 22, 13281.	4.1	2
65	Characterization of phospholipase A2 activation by plasmin in cultured bovine endothelial cells. Journal of Biomedical Science, 1996, 3, 59-66.	7.0	1
66	Ha-RasV12-Induced Multilayer Cellular Aggregates Is Mediated by Rac1 Activation Rather Than YAP Activation. Biomedicines, 2022, 10, 977.	3.2	1
67	Involvement of focal adhesion kinase in cell adhesion force on different substrate rigidity. , 2009, , .		0
68	Adhesion strengths of normal epithelial cells and epithelial mesenchymal transition cells by using single-cell force spectroscopy. , 2011, , .		0
69	A de novo COL17A1 splice-site mutation causing a 7-bp deletion in a Taiwanese patient with junctional epidermolysis bullosa. European Journal of Dermatology, 2021, 31, 267-269.	0.6	0
70	Functions of DDR1 in Epithelial Cell Differentiation. , 2016, , 239-258.		0