

Transmembrane crosstalk between the extracellular ma

Nature Reviews Molecular Cell Biology

2, 793-805

DOI: 10.1038/35099066

Citation Report

#	ARTICLE	IF	CITATIONS
5	CELL BIOLOGY: Encounters in Space. <i>Science</i> , 2001, 294, 1661-1663.	6.0	67
7	Single pilus motor forces exceed 100 pN. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16012-16017.	3.3	358
8	Impaired Trafficking of Connexins in Androgen-independent Human Prostate Cancer Cell Lines and Its Mitigation by $\beta$ -Catenin. <i>Journal of Biological Chemistry</i> , 2002, 277, 50087-50097.	1.6	72
9	Regulatory Role for Src and Phosphatidylinositol 3-Kinase in Initiation of Fibronectin Matrix Assembly. <i>Journal of Biological Chemistry</i> , 2002, 277, 19703-19708.	1.6	53
10	Get a ligand, get a life: integrins, signaling and cell survival. <i>Journal of Cell Science</i> , 2002, 115, 3729-3738.	1.2	536
11	Coordinate interactions of Csk, Src, and Syk kinases with $\beta$ 3 initiate integrin signaling to the cytoskeleton. <i>Journal of Cell Biology</i> , 2002, 157, 265-275.	2.3	382
12	The fibronectin-binding integrins $\alpha$ 5 $\beta$ 1 and $\alpha$ v $\beta$ 3 differentially modulate RhoA GTP loading, organization of cell matrix adhesions, and fibronectin fibrillogenesis. <i>Journal of Cell Biology</i> , 2002, 159, 1071-1086.	2.3	321
13	In vitro Studies on Endometrial Adhesiveness for Trophoblast: Cellular Dynamics in Uterine Epithelial Cells. <i>Cells Tissues Organs</i> , 2002, 172, 237-252.	1.3	68
14	Characterization of PINCH-2, a New Focal Adhesion Protein That Regulates the PINCH-1-ILK Interaction, Cell Spreading, and Migration. <i>Journal of Biological Chemistry</i> , 2002, 277, 38328-38338.	1.6	97
16	Role of Deformation-induced Lipid Trafficking in the Prevention of Plasma Membrane Stress Failure. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 1282-1289.	2.5	115
17	Involvement of Calcium Signaling and the Actin Cytoskeleton in the Membrane Block to Polyspermy in Mouse Eggs. <i>Biology of Reproduction</i> , 2002, 67, 1342-1352.	1.2	68
18	Insulin-like Growth Factor I Prevents Mannitol-induced Degradation of Focal Adhesion Kinase and Akt. <i>Journal of Biological Chemistry</i> , 2002, 277, 27393-27400.	1.6	40
19	Discrete Proteolysis of Focal Contact and Adherens Junction Components in <i>Porphyromonas gingivalis</i> -Infected Oral Keratinocytes: a Strategy for Cell Adhesion and Migration Disabling. <i>Infection and Immunity</i> , 2002, 70, 5846-5856.	1.0	72
20	Class A scavenger receptors mediate cell adhesion via activation of Gi/o and formation of focal adhesion complexes. <i>Journal of Lipid Research</i> , 2002, 43, 1829-1836.	2.0	38
21	Assembly of the PINCH-ILK-CH-ILKBP complex precedes and is essential for localization of each component to cell-matrix adhesion sites. <i>Journal of Cell Science</i> , 2002, 115, 4777-4786.	1.2	173
22	Adhesiveness of human uterine epithelial RL95-2 cells to trophoblast: Rho protein regulation. <i>Molecular Human Reproduction</i> , 2002, 8, 1014-1022.	1.3	41
23	Adaptor Protein Crk Is Required for Ephrin-B1-induced Membrane Ruffling and Focal Complex Assembly of Human Aortic Endothelial Cells. <i>Molecular Biology of the Cell</i> , 2002, 13, 4231-4242.	0.9	87
24	Preparation of Extracellular Matrices Produced by Cultured Fibroblasts. <i>Current Protocols in Cell Biology</i> , 2002, 16, 10.9.1.	2.3	9

#	ARTICLE	IF	CITATIONS
25	Fibronectin at a glance. <i>Journal of Cell Science</i> , 2002, 115, 3861-3863.	1.2	1,662
26	Regulation of the Association of $\beta_4$ with Vimentin Intermediate Filaments in Endothelial Cells. <i>Experimental Cell Research</i> , 2002, 281, 107-114.	1.2	38
27	Biomarkers of Human Skin Cells Identified Using DermArray DNA Arrays and New Bioinformatics Methods. <i>Biochemical and Biophysical Research Communications</i> , 2002, 291, 1052-1064.	1.0	44
28	Cellular Processes Associated with Germ Band Retraction in <i>Drosophila</i> . <i>Developmental Biology</i> , 2002, 248, 29-39.	0.9	82
29	Molecular Mechanisms of Epithelial Morphogenesis. <i>Annual Review of Cell and Developmental Biology</i> , 2002, 18, 463-493.	4.0	215
30	Exploring the Neighborhood. <i>Cell</i> , 2002, 110, 139-142.	13.5	388
31	Identifying Unfolding Intermediates of FN-III10 by Steered Molecular Dynamics. <i>Journal of Molecular Biology</i> , 2002, 323, 939-950.	2.0	159
32	Calculation of Forces at Focal Adhesions from Elastic Substrate Data: The Effect of Localized Force and the Need for Regularization. <i>Biophysical Journal</i> , 2002, 83, 1380-1394.	0.2	329
33	Integrin Connections Map: To Infinity and Beyond. <i>Science</i> , 2002, 296, 1652-1653.	6.0	224
34	Regulation of the Association of $\beta_4$ with Vimentin Intermediate Filaments in Endothelial Cells. <i>Experimental Cell Research</i> , 2002, 281, 107-107.	1.2	2
35	The relationship between force and focal complex development. <i>Journal of Cell Biology</i> , 2002, 159, 695-705.	2.3	812
36	The integrin $\beta_2$ tail is required and sufficient to regulate adhesion signaling to Rac1. <i>Journal of Cell Science</i> , 2002, 115, 4285-4291.	1.2	60
37	The integrin $\beta_1$ subunit cytoplasmic tail forms oligomers: a potential role in $\beta_1$ integrin clustering. <i>Biology of the Cell</i> , 2002, 94, 375-387.	0.7	12
38	Protein kinase signaling in the modulation of microvascular permeability. <i>Vascular Pharmacology</i> , 2002, 39, 213-223.	1.0	215
39	New Directions for Fluorescent Speckle Microscopy. <i>Current Biology</i> , 2002, 12, R633-R640.	1.8	47
40	The inner lives of focal adhesions. <i>Trends in Cell Biology</i> , 2002, 12, 382-389.	3.6	187
41	Cell interactions with three-dimensional matrices. <i>Current Opinion in Cell Biology</i> , 2002, 14, 633-640.	2.6	806
42	Molecular basis of endothelial cell morphogenesis in three-dimensional extracellular matrices. <i>The Anatomical Record</i> , 2002, 268, 252-275.	2.3	229

#	ARTICLE	IF	CITATIONS
43	Lessons in congenital and acquired renal disease from $\alpha 8$ integrin mutant mice. <i>Pediatric Nephrology</i> , 2002, 17, 882-888.	0.9	7
44	Integrin-dependent regulation of gene expression in leukocytes. <i>Immunological Reviews</i> , 2002, 186, 189-207.	2.8	30
45	Sensing the environment: a historical perspective on integrin signal transduction. <i>Nature Cell Biology</i> , 2002, 4, E83-E90.	4.6	750
46	Myofibroblasts and mechano-regulation of connective tissue remodelling. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 349-363.	16.1	3,539
47	How do microtubules guide migrating cells?. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 957-964.	16.1	190
48	Breaking the neuronal sphere: regulation of the actin cytoskeleton in neuritogenesis. <i>Nature Reviews Neuroscience</i> , 2002, 3, 694-704.	4.9	450
49	Induction of acute phase response genes in keratinocytes following exposure to oligodeoxynucleotides. <i>Journal of Molecular Medicine</i> , 2002, 80, 377-383.	1.7	9
50	Role of galectin-8 as a modulator of cell adhesion and cell growth. <i>Glycoconjugate Journal</i> , 2002, 19, 517-526.	1.4	186
51	Stick and Grip: Measurement Systems and Quantitative Analyses of Integrin-Mediated Cell Adhesion Strength. <i>Cell Biochemistry and Biophysics</i> , 2003, 39, 61-74.	0.9	86
52	Cell Migration: Integrating Signals from Front to Back. <i>Science</i> , 2003, 302, 1704-1709.	6.0	4,337
53	Integrin Signaling and Mammary Cell Function. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2003, 8, 395-408.	1.0	28
54	Force-dependent integrin-cytoskeleton linkage formation requires downregulation of focal complex dynamics by Shp2. <i>EMBO Journal</i> , 2003, 22, 5023-5035.	3.5	184
55	Interaction of fascin and protein kinase C $\delta$ : a novel intersection in cell adhesion and motility. <i>EMBO Journal</i> , 2003, 22, 5390-5402.	3.5	126
56	Interactions between growth factor receptors and adhesion molecules: breaking the rules. <i>Current Opinion in Cell Biology</i> , 2003, 15, 565-571.	2.6	240
57	Integrin signaling to the actin cytoskeleton. <i>Current Opinion in Cell Biology</i> , 2003, 15, 572-582.	2.6	450
58	Connecting cell adhesion to the actin polymerization machinery: vinculin as the missing link?. <i>Trends in Cell Biology</i> , 2003, 13, 163-165.	3.6	46
59	Tales from the crypt[ic] sites of the extracellular matrix. <i>Trends in Cell Biology</i> , 2003, 13, 366-375.	3.6	181
60	Effect of stretching on gene expression of $\alpha 21$ integrin and focal adhesion kinase and on chondrogenesis through cell-extracellular matrix interactions. <i>European Journal of Cell Biology</i> , 2003, 82, 182-192.	1.6	72

#	ARTICLE	IF	CITATIONS
61	Zyxin and paxillin proteins: focal adhesion plaque LIM domain proteins go nuclear. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2003, 1593, 115-120.	1.9	137
62	Structural and compositional analysis of the keratinocyte migration track. <i>Cytoskeleton</i> , 2003, 55, 1-13.	4.4	32
63	Keap1 in adhesion complexes. <i>Cytoskeleton</i> , 2003, 56, 109-119.	4.4	20
64	Fibronectin anchorage to polymer substrates controls the initial phase of endothelial cell adhesion. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 67A, 647-657.	2.1	59
65	Adhesion-dependent control of Akt/protein kinase B occurs at multiple levels. <i>Journal of Cellular Physiology</i> , 2003, 196, 98-104.	2.0	7
66	Microfilaments and microtubules maintain endothelial integrity. <i>Microscopy Research and Technique</i> , 2003, 60, 115-127.	1.2	89
67	The architecture of polarized cell growth: The unique status of elongating plant cells. <i>BioEssays</i> , 2003, 25, 569-576.	1.2	61
68	Mechanisms of force generation and transmission by myofibroblasts. <i>Current Opinion in Biotechnology</i> , 2003, 14, 538-546.	3.3	354
69	MG63 osteoblastic cell adhesion to the hydrophobic surface precoated with recombinant osteopontin fragments. <i>Biomaterials</i> , 2003, 24, 1059-1066.	5.7	45
70	Enhanced tissue-compatibility of polyethyleneterephtalat membranes by plasma aminofunctionalisation. <i>Surface and Coatings Technology</i> , 2003, 174-175, 574-578.	2.2	34
71	Cell adhesion in cancer. <i>Comptes Rendus Physique</i> , 2003, 4, 289-304.	0.3	19
72	Measurement of cellular forces at focal adhesions using elastic micro-patterned substrates. <i>Materials Science and Engineering C</i> , 2003, 23, 387-394.	3.8	31
73	A functional genomic analysis of cell morphology using RNA interference. <i>Journal of Biology</i> , 2003, 2, 27.	2.7	387
74	Quantitative fluorescent speckle microscopy: where it came from and where it is going. <i>Journal of Microscopy</i> , 2003, 211, 191-207.	0.8	55
75	Integrins in regulation of tissue development and function. <i>Journal of Pathology</i> , 2003, 200, 471-480.	2.1	154
77	Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function. <i>Nature</i> , 2003, 424, 391-397.	13.7	546
78	Focal adhesion kinase mediates porcine venular hyperpermeability elicited by vascular endothelial growth factor. <i>Journal of Physiology</i> , 2003, 552, 691-699.	1.3	56
79	Extracellular matrix molecules and synaptic plasticity. <i>Nature Reviews Neuroscience</i> , 2003, 4, 456-468.	4.9	459

#	ARTICLE	IF	CITATIONS
80	Adhesion-Dependent Cell Mechanosensitivity. Annual Review of Cell and Developmental Biology, 2003, 19, 677-695.	4.0	779
81	The Tissue Engineering Puzzle: A Molecular Perspective. Annual Review of Biomedical Engineering, 2003, 5, 441-463.	5.7	132
82	The ins and outs of fibronectin matrix assembly. Journal of Cell Science, 2003, 116, 3269-3276.	1.2	419
83	Invited research review: Cell-matrix interactions in the gut epithelium. Surgery, 2003, 133, 263-267.	1.0	23
84	Thin Films of Collagen Affect Smooth Muscle Cell Morphology. Langmuir, 2003, 19, 1506-1514.	1.6	105
85	Maleic Anhydride Copolymers A Versatile Platform for Molecular Biosurface Engineering. Biomacromolecules, 2003, 4, 1072-1079.	2.6	223
86	A Lim protein involved in the progression of cytokinesis and regulation of the mitotic spindle. Cytoskeleton, 2003, 56, 130-139.	4.4	53
87	Low dose latrunculin-A inhibits dexamethasone-induced changes in the actin cytoskeleton and alters extracellular matrix protein expression in cultured human trabecular meshwork cells. Experimental Eye Research, 2003, 77, 181-188.	1.2	27
88	Migfilin and Mig-2 Link Focal Adhesions to Filamin and the Actin Cytoskeleton and Function in Cell Shape Modulation. Cell, 2003, 113, 37-47.	13.5	330
89	Csk regulates integrin-mediated signals: involvement of differential activation of ERK and Akt. Biochemical and Biophysical Research Communications, 2003, 303, 973-977.	1.0	14
90	LIM-only protein FHL3 interacts with CDC25B2 phosphatase. Experimental Cell Research, 2003, 285, 99-106.	1.2	11
91	New cell attachment peptide sequences from conserved epitopes in the carboxy termini of fibrinogen. Experimental Cell Research, 2003, 287, 116-129.	1.2	37
92	Organization and Adhesive Properties of the Hyaluronan Pericellular Coat of Chondrocytes and Epithelial Cells. Biophysical Journal, 2003, 85, 1996-2005.	0.2	103
93	Integrins regulate neuronal neurotrophin gene expression through effects on voltage-sensitive calcium channels. Neuroscience, 2003, 118, 925-940.	1.1	34
94	Positional Control of Cell Fate Through Joint Integrin/Receptor Protein Kinase Signaling. Annual Review of Cell and Developmental Biology, 2003, 19, 173-206.	4.0	344
95	Identification of Transcription Factor KLF8 as a Downstream Target of Focal Adhesion Kinase in Its Regulation of Cyclin D1 and Cell Cycle Progression. Molecular Cell, 2003, 11, 1503-1515.	4.5	164
96	FAK Deficiency in Cells Contributing to the Basal Lamina Results in Cortical Abnormalities Resembling Congenital Muscular Dystrophies. Neuron, 2003, 40, 501-514.	3.8	277
97	Cell-Matrix Adhesions on Poly(vinyl alcohol) Hydrogels. Tissue Engineering, 2003, 9, 525-533.	4.9	49

#	ARTICLE	IF	CITATIONS
98	Î²1 integrins are distributed in adhesion structures with fibronectin and caveolin and in coated pits. <i>Biochemistry and Cell Biology</i> , 2003, 81, 335-348.	0.9	10
99	Structure and functional significance of mechanically unfolded fibronectin type III1 intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 14784-14789.	3.3	187
100	Targeting Membrane-localized Focal Adhesion Kinase to Focal Adhesions. <i>Journal of Biological Chemistry</i> , 2003, 278, 29115-29120.	1.6	77
101	Cytoskeleton-Plasma Membrane-Cell Wall Continuum in Plants. <i>Emerging Links Revisited. Plant Physiology</i> , 2003, 133, 482-491.	2.3	262
102	Pyk2- and Src-Dependent Tyrosine Phosphorylation of PDK1 Regulates Focal Adhesions. <i>Molecular and Cellular Biology</i> , 2003, 23, 8019-8029.	1.1	76
103	Heparanase mediates cell adhesion independent of its enzymatic activity. <i>FASEB Journal</i> , 2003, 17, 1015-1025.	0.2	171
104	Local signaling by the EGF receptor. <i>Journal of Cell Biology</i> , 2003, 162, 781-788.	2.3	47
105	Î±-Smooth Muscle Actin Is Crucial for Focal Adhesion Maturation in Myfibroblasts. <i>Molecular Biology of the Cell</i> , 2003, 14, 2508-2519.	0.9	262
106	Crk Associates with a Multimolecular Paxillin/GIT2/Î²-PIX Complex and Promotes Rac-dependent Relocalization of Paxillin to Focal Contacts. <i>Molecular Biology of the Cell</i> , 2003, 14, 2818-2831.	0.9	90
107	The vaccinia virus kelch-like protein C2L affects calcium-independent adhesion to the extracellular matrix and inflammation in a murine intradermal model. <i>Journal of General Virology</i> , 2003, 84, 2459-2471.	1.3	52
108	Cell organization in soft media due to active mechanosensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9274-9279.	3.3	282
109	Extracellular Signal-regulated Kinase Mediates Phosphorylation of Tropomyosin-1 to Promote Cytoskeleton Remodeling in Response to Oxidative Stress: Impact on Membrane Blebbing. <i>Molecular Biology of the Cell</i> , 2003, 14, 1418-1432.	0.9	103
110	Shedding Light on Cell Signaling: Interpretation of FRET Biosensors. <i>Science Signaling</i> , 2003, 2003, pe3-pe3.	1.6	28
111	Early molecular events in the assembly of matrix adhesions at the leading edge of migrating cells. <i>Journal of Cell Science</i> , 2003, 116, 4605-4613.	1.2	589
112	CTGF Mediates TGF-Î²-Induced Fibronectin Matrix Deposition by Upregulating Active Î±5Î²1 Integrin in Human Mesangial Cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, 601-610.	3.0	157
113	Cells lying on a bed of microneedles: An approach to isolate mechanical force. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1484-1489.	3.3	1,762
115	Generation of a Monoclonal Antibody to a Cryptic Site Common to Both Integrin Î²1 as Well as Gelatinase MMP9. <i>Hybridoma</i> , 2003, 22, 285-292.	0.6	2
116	Sphingosine Kinase Type 1 Induces G12/13-mediated Stress Fiber Formation, yet Promotes Growth and Survival Independent of G Protein-coupled Receptors. <i>Journal of Biological Chemistry</i> , 2003, 278, 46452-46460.	1.6	142

#	ARTICLE	IF	CITATIONS
117	v-Src Rescues Actin-based Cytoskeletal Architecture and Cell Motility and Induces Enhanced Anchorage Independence during Oncogenic Transformation of Focal Adhesion Kinase-null Fibroblasts. <i>Journal of Biological Chemistry</i> , 2003, 278, 47946-47959.	1.6	47
119	Sustained Induction of ERK, Protein Kinase B, and p70 S6 Kinase Regulates Cell Spreading and Formation of F-actin Microspikes Upon Ligation of Integrins by Galectin-8, a Mammalian Lectin. <i>Journal of Biological Chemistry</i> , 2003, 278, 14533-14543.	1.6	70
120	Tyrosine phosphorylation of type $\beta_3$ phosphatidylinositol phosphate kinase by Src regulates an integrin-talin switch. <i>Journal of Cell Biology</i> , 2003, 163, 1339-1349.	2.3	137
121	$\beta_4$ Integrin/Ligand Interaction Inhibits $\beta_5$ -induced Stress Fibers and Focal Adhesions via Down-Regulation of RhoA and Induces Melanoma Cell Migration. <i>Molecular Biology of the Cell</i> , 2003, 14, 3699-3715.	0.9	30
122	Large Scale Simulation of Protein Mechanics and Function. <i>Advances in Protein Chemistry</i> , 2003, 66, 195-247.	4.4	31
123	PINCH-1 Is an Obligate Partner of Integrin-linked Kinase (ILK) Functioning in Cell Shape Modulation, Motility, and Survival. <i>Journal of Biological Chemistry</i> , 2003, 278, 51324-51333.	1.6	185
124	Dynamic changes in the osteoclast cytoskeleton in response to growth factors and cell attachment are controlled by $\beta_3$ integrin. <i>Journal of Cell Biology</i> , 2003, 162, 499-509.	2.3	161
125	Cystic Renal Diseases. , 2003, , 433-450.		4
126	RPTP- $\beta$ acts as a transducer of mechanical force on $\beta_3$ -integrin-cytoskeleton linkages. <i>Journal of Cell Biology</i> , 2003, 161, 143-153.	2.3	194
127	Dendritic Fibroblasts in Three-dimensional Collagen Matrices. <i>Molecular Biology of the Cell</i> , 2003, 14, 384-395.	0.9	183
128	Epidermal Growth Factor-mediated Transient Phosphorylation and Membrane Localization of Myosin II-B Are Required for Efficient Chemotaxis. <i>Journal of Biological Chemistry</i> , 2003, 278, 40032-40040.	1.6	23
129	Live-cell monitoring of tyrosine phosphorylation in focal adhesions following microtubule disruption. <i>Journal of Cell Science</i> , 2003, 116, 975-986.	1.2	105
130	$\beta_3$ Integrin Signaling Pathway Is Involved in Insulin-Like Growth Factor I-Stimulated Human Extravillous Trophoblast Cell Migration. <i>Endocrinology</i> , 2003, 144, 1620-1630.	1.4	56
131	Radial Monolayer Cell Migration Assay. , 2004, 88, 219-224.		11
132	Response of alveolar cells to mechanical stress. <i>Current Opinion in Critical Care</i> , 2003, 9, 2-8.	1.6	74
133	A synthetic peptide from the heparin-binding domain III (repeats III4-5) of fibronectin promotes stress-fibre and focal-adhesion formation in melanoma cells. <i>Biochemical Journal</i> , 2003, 371, 565-571.	1.7	17
134	Cell-matrix and cell-cell contacts of myofibroblasts: role in connective tissue remodeling. <i>Thrombosis and Haemostasis</i> , 2003, 90, 993-1002.	1.8	220
135	Integrins in the development function and dysfunction of the nervous system. <i>Frontiers in Bioscience - Landmark</i> , 2003, 8, d723-750.	3.0	96



#	ARTICLE	IF	CITATIONS
136	Title is missing!. Nippon Nogeikagaku Kaishi, 2003, 77, 968-973.	0.0	0
137	Epithelial cell spreading induced by hepatocyte growth factor influences paxillin protein synthesis and posttranslational modification. American Journal of Physiology - Renal Physiology, 2004, 287, G886-G898.	1.6	19
138	Quantitative analysis of fibronectin fibrillogenesis by endothelial cells on biomaterials. Journal of Physics Condensed Matter, 2004, 16, S2421-S2426.	0.7	4
139	Cell Migration Analyses Within Fibroblast-Derived 3-D Matrices. , 2005, 294, 079-094.		29
140	Elastic interactions of active cells with soft materials. Physical Review E, 2004, 69, 021911.	0.8	110
141	Cell behaviour on micropatterned substrata: limits of extracellular matrix geometry for spreading and adhesion. Journal of Cell Science, 2004, 117, 41-52.	1.2	361
142	Satellite cell activation on fibers: modeling events in vivo " an invited review. Canadian Journal of Physiology and Pharmacology, 2004, 82, 300-310.	0.7	76
143	The Phosphorylation of Vinculin on Tyrosine Residues 100 and 1065, Mediated by Src Kinases, Affects Cell Spreading. Molecular Biology of the Cell, 2004, 15, 4234-4247.	0.9	76
144	Regulation of Ca <sup>2+</sup> -dependent K <sup>+</sup> Current by $\beta_3$ Integrin Engagement in Vascular Endothelium. Journal of Biological Chemistry, 2004, 279, 12959-12966.	1.6	32
145	Mammary Epithelial-Mesenchymal Interaction Regulates Fibronectin Alternative Splicing via Phosphatidylinositol 3-Kinase. Journal of Biological Chemistry, 2004, 279, 21029-21037.	1.6	48
146	Epidermal Growth Factor Receptor-Dependent Regulation of Integrin-Mediated Signaling and Cell Cycle Entry in Epithelial Cells. Molecular and Cellular Biology, 2004, 24, 8586-8599.	1.1	153
147	A role for the cytoskeleton in prolactin-dependent mammary epithelial cell differentiation. Journal of Cell Science, 2004, 117, 271-280.	1.2	46
148	Roles of microtubules, cell polarity and adhesion in electric-field-mediated motility of 3T3 fibroblasts. Journal of Cell Science, 2004, 117, 1533-1545.	1.2	77
149	Integrin activation. Journal of Cell Science, 2004, 117, 657-666.	1.2	411
150	Modulation of acto-myosin contractility in skeletal muscle myoblasts uncouples growth arrest from differentiation. Journal of Cell Science, 2004, 117, 3735-3748.	1.2	60
151	Plexin signaling hampers integrin-based adhesion, leading to Rho-kinase independent cell rounding, and inhibiting lamellipodia extension and cell motility. FASEB Journal, 2004, 18, 592-594.	0.2	109
152	Wounding Induces Motility in Sheets of Corneal Epithelial Cells through Loss of Spatial Constraints. Journal of Biological Chemistry, 2004, 279, 24307-24312.	1.6	121
153	Aggregation of Integrins and RhoA Activation Are Required for Thy-1-induced Morphological Changes in Astrocytes. Journal of Biological Chemistry, 2004, 279, 39139-39145.	1.6	66

#	ARTICLE	IF	CITATIONS
154	Cell mechanics and mechanotransduction: pathways, probes, and physiology. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1-C11.	2.1	473
155	Constitutive p21-activated Kinase (PAK) Activation in Breast Cancer Cells as a Result of Mislocalization of PAK to Focal Adhesions. <i>Molecular Biology of the Cell</i> , 2004, 15, 2965-2977.	0.9	63
156	Activated Signal Transducer and Activator of Transcription (STAT) 3. <i>Cancer Research</i> , 2004, 64, 3550-3558.	0.4	239
157	Regulation of Vascular Endothelial Growth Factor Receptor 2-mediated Phosphorylation of Focal Adhesion Kinase by Heat Shock Protein 90 and Src Kinase Activities. <i>Journal of Biological Chemistry</i> , 2004, 279, 39175-39185.	1.6	132
158	ILK is required for the assembly of matrix-forming adhesions and capillary morphogenesis in endothelial cells. <i>Journal of Cell Science</i> , 2004, 117, 4559-4569.	1.2	76
159	Membrane Type 1 Matrix Metalloproteinase Regulates Collagen-Dependent Mitogen-Activated Protein/Extracellular Signal-Related Kinase Activation and Cell Migration. <i>Cancer Research</i> , 2004, 64, 1044-1049.	0.4	94
160	The Integrin-linked Kinase Regulates Cell Morphology and Motility in a Rho-associated Kinase-dependent Manner. <i>Journal of Biological Chemistry</i> , 2004, 279, 54131-54139.	1.6	58
161	Distinct Roles of Two Structurally Closely Related Focal Adhesion Proteins, $\beta$ -Parvins and $\gamma$ -Parvins, in Regulation of Cell Morphology and Survival. <i>Journal of Biological Chemistry</i> , 2004, 279, 41695-41705.	1.6	84
162	Distinct roles of ligand affinity and cytoskeletal anchorage in $\alpha$ IIb $\beta$ 3 (GP IIb/IIIa)-mediated cell aggregation and adhesion. <i>Platelets</i> , 2004, 15, 427-438.	1.1	13
163	Cytoskeletal mechanics in adherent human airway smooth muscle cells: probe specificity and scaling of protein-protein dynamics. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C643-C654.	2.1	85
164	Lamellipodium extension and cadherin adhesion: two cell responses to cadherin activation relying on distinct signalling pathways. <i>Journal of Cell Science</i> , 2004, 117, 257-270.	1.2	123
165	Dose-Sensitive Autosomal Modifiers Identify Candidate Genes for Tissue Autonomously and Tissue Nonautonomously Regulation by the Drosophila Nuclear Zinc-Finger Protein, Hindsight. <i>Genetics</i> , 2004, 168, 281-300.	1.2	14
166	Integrin signaling in inflammatory and neuropathic pain in the rat. <i>European Journal of Neuroscience</i> , 2004, 19, 634-642.	1.2	101
167	Extracellular matrix molecules regulate endothelial cell migration stimulated by lysophosphatidic acid. <i>Journal of Thrombosis and Haemostasis</i> , 2004, 2, 1645-1656.	1.9	40
168	Reduced Fibroblast Interaction with Intact Collagen as a Mechanism for Depressed Collagen Synthesis in Photodamaged Skin. <i>Journal of Investigative Dermatology</i> , 2004, 122, 1471-1479.	0.3	172
169	Signal analysis of total internal reflection fluorescent speckle microscopy (TIR-FSM) and wide-field epi-fluorescence FSM of the actin cytoskeleton and focal adhesions in living cells. <i>Journal of Microscopy</i> , 2004, 216, 138-152.	0.8	30
170	Intermediate filaments mediate cytoskeletal crosstalk. <i>Nature Reviews Molecular Cell Biology</i> , 2004, 5, 601-613.	16.1	336
171	Attenuation of the p53 response to DNA damage by high cell density. <i>Oncogene</i> , 2004, 23, 2128-2137.	2.6	45

#	ARTICLE	IF	CITATIONS
172	Lelectin, a novel C-type lectin from <i>Macrovipera lebetina</i> venom, inhibits integrin-mediated adhesion, migration and invasion of human tumour cells. <i>Laboratory Investigation</i> , 2004, 84, 573-581.	1.7	39
173	Expression of several cytoskeletal proteins in ovine cerebral arteries: developmental and functional considerations. <i>Journal of Physiology</i> , 2004, 558, 623-632.	1.3	16
174	Tuning the Mechanical Stability of Fibronectin Type III Modules through Sequence Variations. <i>Structure</i> , 2004, 12, 21-30.	1.6	98
175	<i>Trypanosoma cruzi</i> infection disrupts vinculin costameres in cardiomyocytes. <i>European Journal of Cell Biology</i> , 2004, 83, 531-540.	1.6	22
176	The PINCH-ILK-parvin complexes: assembly, functions and regulation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2004, 1692, 55-62.	1.9	137
177	Focal adhesion regulation of cell behavior. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2004, 1692, 103-119.	1.9	827
178	Signaling "cross-talk" between TGF- $\beta$ 1 and ECM signals in chondrocytic cells. <i>Cellular Signalling</i> , 2004, 16, 1133-1140.	1.7	43
179	Integrin and cytoskeleton behaviour in human neuroblastoma cells during hyperthermia-related apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2004, 9, 635-648.	2.2	42
180	Reorganization of cytoskeletal proteins of mouse oocytes mediated by integrins. <i>Science in China Series C: Life Sciences</i> , 2004, 47, 540.	1.3	5
181	Inhibitory action of a new lectin from <i>Xerocomus chrysenteron</i> on cell-substrate adhesion. <i>Molecular and Cellular Biochemistry</i> , 2004, 258, 49-55.	1.4	19
182	Migration of epidermal keratinocytes: mechanisms, regulation, and biological significance. <i>Protoplasma</i> , 2004, 223, 67-78.	1.0	74
183	Nanotopographical guidance of C6 glioma cell alignment and oriented growth. <i>Biomaterials</i> , 2004, 25, 4215-4223.	5.7	116
184	A Visual-Quantitative Analysis of Fibroblastic Stromagenesis in Breast Cancer Progression. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2004, 9, 311-324.	1.0	21
185	Strategies for Engineering the Adhesive Microenvironment. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2004, 9, 405-417.	1.0	39
186	Myosin-mediated cytoskeleton contraction and Rho GTPases regulate laminin-5 matrix assembly. <i>Cytoskeleton</i> , 2004, 57, 107-117.	4.4	15
187	Early molecular events in the assembly of the focal adhesion-stress fiber complex during fibroblast spreading. <i>Cytoskeleton</i> , 2004, 58, 143-159.	4.4	137
188	Cellular localization and signaling activity of $\beta$ -catenin in migrating neural crest cells. <i>Developmental Dynamics</i> , 2004, 230, 708-726.	0.8	59
189	Comparison of environmental scanning electron microscopy with high vacuum scanning electron microscopy as applied to the assessment of cell morphology. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 69A, 359-366.	3.0	37

#	ARTICLE	IF	CITATIONS
190	Spatial and Temporal Sequence of Events in Cell Adhesion: From Molecular Recognition to Focal Adhesion Assembly. <i>ChemBioChem</i> , 2004, 5, 1393-1399.	1.3	127
191	A novel generic platform for chemical patterning of surfaces. <i>Progress in Surface Science</i> , 2004, 76, 55-69.	3.8	49
192	Surface chemistry modulates focal adhesion composition and signaling through changes in integrin binding. <i>Biomaterials</i> , 2004, 25, 5947-5954.	5.7	550
193	Controlling Mammalian Cell Interactions on Patterned Polyelectrolyte Multilayer Surfaces. <i>Langmuir</i> , 2004, 20, 1362-1368.	1.6	165
194	NMR Studies of Modular Protein Structures and Their Interactions. <i>Chemical Reviews</i> , 2004, 104, 3557-3566.	23.0	62
195	Designing a Hepatocellular Microenvironment with Protein Microarraying and Poly(ethylene glycol) Photolithography. <i>Langmuir</i> , 2004, 20, 2999-3005.	1.6	104
196	Manganese-induced integrin affinity maturation promotes recruitment of $\alpha_5\beta_3$ integrin to focal adhesions in endothelial cells: evidence for a role of phosphatidylinositol 3-kinase and Src. <i>Thrombosis and Haemostasis</i> , 2004, 92, 151-161.	1.8	42
197	Direct Comparison of the Spread Area, Contractility, and Migration of balb/c 3T3 Fibroblasts Adhered to Fibronectin- and RGD-Modified Substrata. <i>Biophysical Journal</i> , 2004, 87, 2818-2827.	0.2	112
198	Elastic deformations of grafted layers with surface stress. <i>Physical Review E</i> , 2004, 69, 051902.	0.8	22
200	SH3P2 in complex with Cbl and Src. <i>FEBS Letters</i> , 2004, 565, 33-38.	1.3	21
201	Mechanical properties of individual focal adhesions probed with a magnetic microneedle. <i>Biochemical and Biophysical Research Communications</i> , 2004, 313, 758-764.	1.0	128
202	Phosphorylation of mouse LASP-1 on threonine 156 by cAMP- and cGMP-dependent protein kinase. <i>Biochemical and Biophysical Research Communications</i> , 2004, 324, 308-316.	1.0	62
203	Transdifferentiation of preadipose cells into smooth muscle-like cells: role of aortic carboxypeptidase-like protein. <i>Experimental Cell Research</i> , 2004, 293, 219-228.	1.2	53
204	Inhibition of Proprotein Convertases Enhances Cell Migration and Metastases Development of Human Colon Carcinoma Cells in a Rat Model. <i>American Journal of Pathology</i> , 2004, 164, 1925-1933.	1.9	27
205	Phosphodiesterase-1/autotaxin controls cytoskeletal organization and FAK phosphorylation during myelination. <i>Molecular and Cellular Neurosciences</i> , 2004, 27, 140-150.	1.0	44
206	The endoproteolytic processing of $\alpha_5\beta_2$ integrin is involved in cytoskeleton remodelling and cell migration. <i>FEBS Letters</i> , 2004, 557, 159-163.	1.3	8
207	Integrin Fibronectin Receptors in Matrix Metalloproteinase-1-Dependent Invasion by Breast Cancer and Mammary Epithelial Cells. <i>Cancer Research</i> , 2004, 64, 8674-8681.	0.4	95
208	Development of photocrosslinkable hyaluronic acid-polyethylene glycol-peptide composite hydrogels for soft tissue engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70A, 74-82.	3.0	131

#	ARTICLE	IF	CITATIONS
209	Nanometer Analysis of Cell Spreading on Matrix-Coated Surfaces Reveals Two Distinct Cell States and STEPs. Biophysical Journal, 2004, 86, 1794-1806.	0.2	208
210	Rewiring Cell Adhesion. Journal of the American Chemical Society, 2004, 126, 6504-6505.	6.6	46
211	Getting a grip: hyaluronan-mediated cellular adhesion. , 2004, , .		5
212	Measurement of Protein Tyrosine Phosphorylation in Cell Adhesion. , 2005, 294, 289-302.		6
213	Hierarchical assembly of cellâ€“matrix adhesion complexes. Biochemical Society Transactions, 2004, 32, 416-420.	1.6	474
214	Mechanisms of integration of cells and extracellular matrices by integrins. Biochemical Society Transactions, 2004, 32, 822-825.	1.6	98
215	Interplay between the Actin Cytoskeleton, Focal Adhesions and Microtubules. , 0, , 75-99.		10
216	Nonâ€“Radioactive Quantification of Fibronectin Matrix Assembly. Current Protocols in Cell Biology, 2004, 25, Unit 10.13.	2.3	8
217	15-DEOXY-??12,14-PROSTAGLANDIN J2 (15D-PGJ2), A PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ?? LIGAND, REDUCES TISSUE LEUKOSEQUESTRATION AND MORTALITY IN ENDOTOXIC SHOCK. Shock, 2005, 24, 59-65.	1.0	85
218	Biophysical Factors Leading to VILI. , 2005, , 213-226.		0
219	Type 3 repeat/C-terminal domain of thrombospondin-1 triggers caspase-independent cell death through CD47/Î±VÎ²3 in promyelocytic leukemia NB4 cells. Blood, 2005, 106, 658-667.	0.6	72
220	Myoblast proliferation and differentiation on fibronectin-coated self assembled monolayers presenting different surface chemistries. Biomaterials, 2005, 26, 4523-4531.	5.7	186
221	Control of focal adhesion dynamics by material surface characteristics. Biomaterials, 2005, 26, 383-392.	5.7	175
222	Quantitative methods for analysis of integrin binding and focal adhesion formation on biomaterial surfaces. Biomaterials, 2005, 26, 413-418.	5.7	80
223	Bladder acellular matrix as a substrate for studying in vitro bladder smooth muscleâ€“urothelial cell interactions. Biomaterials, 2005, 26, 529-543.	5.7	65
224	A synthetic nanofibrillar matrix promotes in vivo-like organization and morphogenesis for cells in culture. Biomaterials, 2005, 26, 5624-5631.	5.7	223
225	Molecules Mediating Cellâ€“ECM and Cellâ€“Cell Communication in Human Heart Valves. Cell Biochemistry and Biophysics, 2005, 43, 275-288.	0.9	44
226	AMPA receptor stimulation increases Î±5Î²1 integrin surface expression, adhesive function and signaling. Journal of Neurochemistry, 2005, 94, 531-546.	2.1	34

#	ARTICLE	IF	CITATIONS
227	Adherens junctions of the human detrusor. <i>BJU International</i> , 2005, 96, 843-847.	1.3	3
228	Synthetic biomaterials as instructive extracellular microenvironments for morphogenesis in tissue engineering. <i>Nature Biotechnology</i> , 2005, 23, 47-55.	9.4	4,068
229	The extracellular matrix guides the orientation of the cell division axis. <i>Nature Cell Biology</i> , 2005, 7, 947-953.	4.6	725
230	Î²1 integrins regulate mammary gland proliferation and maintain the integrity of mammary alveoli. <i>EMBO Journal</i> , 2005, 24, 1942-1953.	3.5	162
232	Mechanical signals regulating extracellular matrix gene expression in fibroblasts. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2005, 15, 223-230.	1.3	96
233	Stromagenesis: The changing face of fibroblastic microenvironments during tumor progression. <i>Seminars in Cancer Biology</i> , 2005, 15, 329-341.	4.3	206
234	Matrix metalloproteinase expression in basal cell carcinoma: relationship between enzyme profile and collagen fragmentation pattern. <i>Experimental and Molecular Pathology</i> , 2005, 79, 151-160.	0.9	30
235	Engineering hepatocellular morphogenesis and function via ligand-presenting hydrogels with graded mechanical compliance. <i>Biotechnology and Bioengineering</i> , 2005, 89, 296-307.	1.7	82
236	Fibronectin fibril pattern displays the force balance of cell-matrix adhesion. <i>European Biophysics Journal</i> , 2005, 34, 1049-1056.	1.2	31
237	Integrin-actin interactions. <i>Cellular and Molecular Life Sciences</i> , 2005, 62, 1081-1099.	2.4	170
238	Physical determinants of cell organization in soft media. <i>Medical Engineering and Physics</i> , 2005, 27, 763-772.	0.8	124
239	Exploring the molecular basis for mechanosensation, signal transduction, and cytoskeletal remodeling. <i>Acta Biomaterialia</i> , 2005, 1, 281-293.	4.1	33
240	An inverted microcontact printing method on topographically structured polystyrene chips for arrayed micro-3-D culturing of single cells. <i>Biomaterials</i> , 2005, 26, 5917-5925.	5.7	148
241	Get a grip: Integrins in cell-biomaterial interactions. <i>Biomaterials</i> , 2005, 26, 7525-7529.	5.7	292
242	Disruptions and detours in the myocardial matrix highway and heart failure. <i>Current Heart Failure Reports</i> , 2005, 2, 10-17.	1.3	18
243	Extracellular Matrix. , 2005, , 63-71.		1
244	Imaging remodeling of the actin cytoskeleton in vascular smooth muscle cells after mechanosensitive arteriolar constriction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H660-H669.	1.5	61
245	Specification of the Direction of Adhesive Signaling by the Integrin Î² Cytoplasmic Domain. <i>Journal of Biological Chemistry</i> , 2005, 280, 29699-29707.	1.6	91

#	ARTICLE	IF	CITATIONS
246	Migfilin and its binding partners: from cell biology to human diseases. <i>Journal of Cell Science</i> , 2005, 118, 659-664.	1.2	66
247	$\alpha 5 \beta 1$ Integrin expression in the rat carotid artery: involvement in smooth muscle cell migration and neointima formation. <i>Cardiovascular Research</i> , 2005, 65, 813-822.	1.8	42
248	Insulin-like Growth Factor I Controls Adhesion Strength Mediated by $\alpha 5 \beta 1$ Integrins in Motile Carcinoma Cells. <i>Molecular Biology of the Cell</i> , 2005, 16, 51-63.	0.9	42
249	JSP1/JIP3 Cooperates with Focal Adhesion Kinase to Regulate c-Jun N-terminal Kinase and Cell Migration. <i>Journal of Biological Chemistry</i> , 2005, 280, 37772-37781.	1.6	59
250	Integrins control motile strategy through a Rho GTPase-cofilin pathway. <i>Journal of Cell Biology</i> , 2005, 169, 515-526.	2.3	175
251	Heparin II Domain of Fibronectin Uses $\alpha 4 \beta 1$ Integrin to Control Focal Adhesion and Stress Fiber Formation, Independent of Syndecan-4. <i>Journal of Biological Chemistry</i> , 2005, 280, 6915-6922.	1.6	40
252	Dual function of focal adhesion kinase in regulating integrin-induced MMP-2 and MMP-9 release by human T lymphoid cells. <i>FASEB Journal</i> , 2005, 19, 1875-1877.	0.2	46
253	pH-specific sequestration of phosphoglucose isomerase/autocrine motility factor by fibronectin and heparan sulphate. <i>Journal of Cell Science</i> , 2005, 118, 4175-4185.	1.2	6
254	Focal Adhesion Kinase Signaling Regulates Cardiogenesis of Embryonic Stem Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 39534-39544.	1.6	69
255	Mechanisms of Disease: The Biophysical Interpretation of the ECM Affects Physiological and Pathophysiological Cellular Behavior. <i>Zeitschrift Fur Gastroenterologie</i> , 2005, 43, 1329-1336.	0.2	9
256	Integrins: Regulators of Tissue Function and Cancer Progression. <i>Current Pharmaceutical Design</i> , 2005, 11, 881-891.	0.9	105
257	A specific $\alpha 5 \beta 1$ -integrin conformation promotes directional integrin translocation and fibronectin matrix formation. <i>Journal of Cell Science</i> , 2005, 118, 291-300.	1.2	115
258	Biomimetic Three-Dimensional Cultures Significantly Increase Hematopoietic Differentiation Efficacy of Embryonic Stem Cells. <i>Tissue Engineering</i> , 2005, 11, 319-330.	4.9	138
259	Focal adhesions as mechanosensors: A physical mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 12383-12388.	3.3	262
260	Dual Functionality of the Anti- $\beta 1$ Integrin Antibody, 12G10, Exemplifies Agonistic Signalling from the Ligand Binding Pocket of Integrin Adhesion Receptors. <i>Journal of Biological Chemistry</i> , 2005, 280, 10234-10243.	1.6	32
261	Disabled-2 (Dab2) Mediates Transforming Growth Factor $\beta 2$ (TGF $\beta 2$ )-stimulated Fibronectin Synthesis through TGF $\beta 2$ -activated Kinase 1 and Activation of the JNK Pathway. <i>Journal of Biological Chemistry</i> , 2005, 280, 25920-25927.	1.6	97
262	Cellular invasion by <i>Staphylococcus aureus</i> reveals a functional link between focal adhesion kinase and cortactin in integrin-mediated internalisation. <i>Journal of Cell Science</i> , 2005, 118, 2189-2200.	1.2	167
263	Cellular Stress Failure in Ventilator-injured Lungs. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 171, 1328-1342.	2.5	190



#	ARTICLE	IF	CITATIONS
264	The Serine-rich Domain from Crk-associated Substrate (p130) Is a Four-helix Bundle. <i>Journal of Biological Chemistry</i> , 2005, 280, 21908-21914.	1.6	29
265	Identification of CD36 molecular features required for its in vitro angiostatic activity. <i>FASEB Journal</i> , 2005, 19, 1713-1715.	0.2	73
266	Patterns of Gene Expression Differentially Regulated by Platelet-derived Growth Factor and Hypertrophic Stimuli in Vascular Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 19966-19976.	1.6	43
267	Cell Adhesion Strengthening: Contributions of Adhesive Area, Integrin Binding, and Focal Adhesion Assembly. <i>Molecular Biology of the Cell</i> , 2005, 16, 4329-4340.	0.9	373
268	Src-Dependent Tyrosine Phosphorylation at the Tips of Growth Cone Filopodia Promotes Extension. <i>Journal of Neuroscience</i> , 2005, 25, 7669-7681.	1.7	89
269	Modifying the Properties of Collagen Scaffolds with Microfluidics. <i>Materials Research Society Symposia Proceedings</i> , 2005, 897, 1.	0.1	1
270	Physical and functional association of migfilin with cell-cell adhesions. <i>Journal of Cell Science</i> , 2005, 118, 697-710.	1.2	42
271	The Rac activator Tiam1 is required for $\alpha 3 \beta 1$ -mediated laminin-5 deposition, cell spreading, and cell migration. <i>Journal of Cell Biology</i> , 2005, 171, 871-881.	2.3	88
272	Functional Role of Syndecan-1 Cytoplasmic V Region in Lamellipodial Spreading, Actin Bundling, and Cell Migration. <i>Molecular Biology of the Cell</i> , 2005, 16, 3678-3691.	0.9	45
273	Membrane ruffles in cell migration: indicators of inefficient lamellipodia adhesion and compartments of actin filament reorganization. <i>Experimental Cell Research</i> , 2005, 302, 83-95.	1.2	144
274	Assembly and Signaling of Adhesion Complexes. <i>Current Topics in Developmental Biology</i> , 2005, 68, 183-225.	1.0	45
275	Surface biocompatibility. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2005, 101, 14.	4.4	44
276	Anchorage-Dependent Cell Growth: Tyrosine Kinases and Phosphatases Meet Redox Regulation. <i>Antioxidants and Redox Signaling</i> , 2005, 7, 578-592.	2.5	19
277	FRET measurements of cell-traction forces and nano-scale clustering of adhesion ligands varied by substrate stiffness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4300-4305.	3.3	268
278	Roles for Rho/ROCK and Vinculin in Parietal Endoderm Migration. <i>Cell Communication and Adhesion</i> , 2005, 12, 9-22.	1.0	19
279	Bifunctional Peptides Derived from Homologous Loop Regions in the Laminin $\alpha 2 \beta 1$ Integrin and Syndecan-2. <i>Biochemistry</i> , 2005, 44, 9581-9589.	1.2	15
280	Methods for the Detection of Paxillin Post-translational Modifications and Interacting Proteins by Mass Spectrometry. <i>Journal of Proteome Research</i> , 2005, 4, 1832-1841.	1.8	67
281	Bio-adhesive Surfaces to Promote Osteoblast Differentiation and Bone Formation. <i>Journal of Dental Research</i> , 2005, 84, 407-413.	2.5	246



#	ARTICLE	IF	CITATIONS
282	Fibronectin and Cell Attachment to Cell and Protein Resistant Polyelectrolyte Surfaces. <i>Biomacromolecules</i> , 2005, 6, 3252-3258.	2.6	67
283	Wave front engineering for microscopy of living cells. <i>Optics Express</i> , 2005, 13, 1395.	1.7	75
284	Identification of the $\beta$ 1-integrin binding site on $\beta$ -actinin by cryoelectron microscopy. <i>Journal of Structural Biology</i> , 2005, 149, 290-302.	1.3	31
285	Fibronectin fibrillogenesis, a cell-mediated matrix assembly process. <i>Matrix Biology</i> , 2005, 24, 389-399.	1.5	675
286	Quantitative measurement of changes in adhesion force involving focal adhesion kinase during cell attachment, spread, and migration. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 256-265.	1.0	35
287	Enhanced v-Src-induced oncogenic transformation in the absence of focal adhesion kinase is mediated by phosphatidylinositol 3-kinase. <i>Biochemical and Biophysical Research Communications</i> , 2005, 330, 673-684.	1.0	14
288	Three dimensional nanofibrillar surfaces induce activation of Rac. <i>Biochemical and Biophysical Research Communications</i> , 2005, 331, 428-434.	1.0	69
289	SNARE-mediated membrane traffic modulates RhoA-regulated focal adhesion formation. <i>FEBS Letters</i> , 2005, 579, 6169-6178.	1.3	11
290	Focal adhesion molecules as potential target of lead toxicity in NRK-52E cell line. <i>FEBS Letters</i> , 2005, 579, 6251-6258.	1.3	19
291	Stroma-Derived Three-Dimensional Matrices Are Necessary and Sufficient to Promote Desmoplastic Differentiation of Normal Fibroblasts. <i>American Journal of Pathology</i> , 2005, 167, 475-488.	1.9	204
292	Molecular mechanisms of dendritic spine development and remodeling. <i>Progress in Neurobiology</i> , 2005, 75, 161-205.	2.8	307
293	Condensation of the central nervous system in embryonic <i>Drosophila</i> is inhibited by blocking hemocyte migration or neural activity. <i>Developmental Biology</i> , 2005, 279, 233-243.	0.9	129
294	Dynamics of $\beta$ 1-Integrins in Living Fibroblasts—Effect of Substratum Wettability. <i>Biophysical Journal</i> , 2005, 89, 3555-3562.	0.2	10
295	Lamellipodial Contractions during Crawling and Spreading. <i>Biophysical Journal</i> , 2005, 89, 1643-1649.	0.2	55
296	Osteogenic Differentiation of Mouse Embryonic Stem Cells and Mouse Embryonic Fibroblasts in a Three-Dimensional Self-Assembling Peptide Scaffold. <i>Tissue Engineering</i> , 2006, 12, 2215-2227.	4.9	154
297	Molecular mapping of tyrosine-phosphorylated proteins in focal adhesions using fluorescence resonance energy transfer. <i>Journal of Cell Science</i> , 2006, 119, 866-875.	1.2	94
298	Tumor Cell Migration in Three Dimensions. <i>Methods in Enzymology</i> , 2006, 406, 625-643.	0.4	60
299	Folding and Stability of $\beta$ -Helical Integral Membrane Proteins. <i>Chemical Reviews</i> , 2006, 106, 1931-1977.	23.0	192

#	ARTICLE	IF	CITATIONS
300	Molecular mechanisms of cellular mechanics. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 3692.	1.3	76
301	Polymer microarrays for cellular adhesion. <i>Chemical Communications</i> , 2006, , 2118.	2.2	83
302	Decreased Collagen Production in Chronologically Aged Skin. <i>American Journal of Pathology</i> , 2006, 168, 1861-1868.	1.9	640
303	Neural Crest Delamination and Migration. <i>Advances in Experimental Medicine and Biology</i> , 2006, 589, 45-77.	0.8	47
304	Interfaces to Control Cell-Biomaterial Adhesive Interactions. , 0, , 171-190.		77
305	Role of integrins in peripheral nerves and hereditary neuropathies. <i>NeuroMolecular Medicine</i> , 2006, 8, 191-204.	1.8	36
306	Mechanical Instabilities as a Central Issue for InSilico Analysis of Cell Dynamics. <i>Proceedings of the IEEE</i> , 2006, 94, 710-724.	16.4	12
307	Evidence for a differential functional regulation of the two $\beta$ 3-integrins $\alpha$ 5 $\beta$ 3 and $\alpha$ 11b $\beta$ 3. <i>Experimental Cell Research</i> , 2006, 312, 925-937.	1.2	25
308	Role of RhoA/ROCK-dependent actin contractility in the induction of tenascin-C by cyclic tensile strain. <i>Experimental Cell Research</i> , 2006, 312, 1361-1370.	1.2	70
309	Membrane-type 1 matrix metalloproteinase modulates focal adhesion stability and cell migration. <i>Experimental Cell Research</i> , 2006, 312, 1381-1389.	1.2	96
310	Involvement of Golgi-associated Lyn tyrosine kinase in the translocation of annexin II to the endoplasmic reticulum under oxidative stress. <i>Experimental Cell Research</i> , 2006, 312, 1205-1217.	1.2	64
311	Requirements for proximal tubule epithelial cell detachment in response to ischemia: Role of oxidative stress. <i>Experimental Cell Research</i> , 2006, 312, 3711-3727.	1.2	43
312	Weak Force Stalls Protrusion at the Leading Edge of the Lamellipodium. <i>Biophysical Journal</i> , 2006, 90, 1810-1820.	0.2	57
313	Force-Induced Adsorption and Anisotropic Growth of Focal Adhesions. <i>Biophysical Journal</i> , 2006, 90, 3469-3484.	0.2	107
314	Cellular Responses to Substrate Topography: Role of Myosin II and Focal Adhesion Kinase. <i>Biophysical Journal</i> , 2006, 90, 3774-3782.	0.2	161
315	Mechanics of Cellular Adhesion to Artificial Artery Templates. <i>Biophysical Journal</i> , 2006, 91, 3085-3096.	0.2	22
316	Limitation of Cell Adhesion by the Elasticity of the Extracellular Matrix. <i>Biophysical Journal</i> , 2006, 91, 61-73.	0.2	102
317	QUANTITATIVE FLUORESCENT SPECKLE MICROSCOPY OF CYTOSKELETON DYNAMICS. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2006, 35, 361-387.	18.3	194

#	ARTICLE	IF	CITATIONS
318	Preparation of Extracellular Matrices Produced by Cultured and Primary Fibroblasts. <i>Current Protocols in Cell Biology</i> , 2006, 33, Unit 10.9.	2.3	81
319	Effects of Electromagnetic Fields on Cells: Physiological and Therapeutical Approaches and Molecular Mechanisms of Interaction. <i>Cells Tissues Organs</i> , 2006, 182, 59-78.	1.3	136
320	MECHANOTRANSDUCTION INVOLVING MULTIMODULAR PROTEINS: Converting Force into Biochemical Signals. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2006, 35, 459-488.	18.3	397
321	Modeling of pattern development during fibronectin nanofibril formation. <i>Biointerphases</i> , 2006, 1, 93-97.	0.6	8
322	Investigation of MC3T3-E1 Cell Behavior on the Surface of GRGDS-Coupled Chitosan. <i>Biomacromolecules</i> , 2006, 7, 1112-1123.	2.6	44
323	Cellular mechanotransduction: putting all the pieces together again. <i>FASEB Journal</i> , 2006, 20, 811-827.	0.2	1,428
324	Caldesmon effects on the actin cytoskeleton and cell adhesion in cultured HTM cells. <i>Experimental Eye Research</i> , 2006, 82, 945-958.	1.2	56
325	Adhesions that mediate invasion. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 1875-1892.	1.2	102
326	Transglutaminase activity regulates osteoblast differentiation and matrix mineralization in MC3T3-E1 osteoblast cultures. <i>Matrix Biology</i> , 2006, 25, 135-148.	1.5	104
327	Galectin Binding to Mgat5-Modified N-Glycans Regulates Fibronectin Matrix Remodeling in Tumor Cells. <i>Molecular and Cellular Biology</i> , 2006, 26, 3181-3193.	1.1	185
328	Similarities and differences between the E5 oncoproteins of bovine papillomaviruses type 1 and type 4: Cytoskeleton, motility and invasiveness in E5-transformed bovine and mouse cells. <i>Virus Research</i> , 2006, 115, 158-168.	1.1	12
329	Focal adhesion kinase is essential for costamereogenesis in cultured skeletal muscle cells. <i>Developmental Biology</i> , 2006, 293, 38-52.	0.9	88
330	Focal adhesions: What's new inside. <i>Developmental Biology</i> , 2006, 294, 280-291.	0.9	153
331	Modulating Extracellular Matrix at Interfaces of Polymeric Materials. <i>Advances in Polymer Science</i> , 2006, , 63-93.	0.4	36
332	Mechanical control of tissue morphogenesis during embryological development. <i>International Journal of Developmental Biology</i> , 2006, 50, 255-266.	0.3	305
333	Transglutaminases in mineralized tissues. <i>Frontiers in Bioscience - Landmark</i> , 2006, 11, 1591.	3.0	76
334	Measurement of Cellular Contractile Forces Using Patterned Elastomer. , 2006, , 419-424.		0
335	The shed ectodomain of type XIII collagen associates with the fibrillar fibronectin matrix and may interfere with its assembly in vitro. <i>Biochemical Journal</i> , 2006, 393, 43-50.	1.7	20

#	ARTICLE	IF	CITATIONS
337	Src protein tyrosine kinase family and acute inflammatory responses. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 291, L129-L141.	1.3	148
340	Thin films of Type 1 collagen for cell by cell analysis of morphology and tenascin-C promoter activity. <i>BMC Biotechnology</i> , 2006, 6, 14.	1.7	26
341	Focal adhesion kinase signaling at sites of integrin-mediated adhesion controls axon pathfinding. <i>Nature Neuroscience</i> , 2006, 9, 1274-1283.	7.1	188
342	The molecular basis for calcium-dependent axon pathfinding. <i>Nature Reviews Neuroscience</i> , 2006, 7, 115-125.	4.9	321
343	Cells on chips. <i>Nature</i> , 2006, 442, 403-411.	13.7	2,022
344	Dynamic study of the transition from hyaluronan- to integrin-mediated adhesion in chondrocytes. <i>EMBO Journal</i> , 2006, 25, 302-311.	3.5	68
345	Ca <sup>2+</sup> lightning conveys cell-cell contact information inside the cells. <i>EMBO Reports</i> , 2006, 7, 1117-1123.	2.0	11
346	A TGF- $\beta$ 1-Dependent Autocrine Loop Regulates the Structure of Focal Adhesions in Hypertrophic Scar Fibroblasts. <i>Journal of Investigative Dermatology</i> , 2006, 126, 963-970.	0.3	33
347	Spatiotemporal control of cell adhesion on a self-assembled monolayer having a photocleavable protecting group. <i>Analytica Chimica Acta</i> , 2006, 578, 100-104.	2.6	73
348	The dependence of fibrillar adhesions in human fibroblasts on substratum chemistry. <i>Biomaterials</i> , 2006, 27, 234-245.	5.7	68
349	Biological remodelling: Stationary energy, configurational change, internal variables and dissipation. <i>Journal of the Mechanics and Physics of Solids</i> , 2006, 54, 1493-1515.	2.3	43
350	Signaling Mechanisms Regulating Endothelial Permeability. <i>Physiological Reviews</i> , 2006, 86, 279-367.	13.1	1,496
351	Nectins and nectin-like molecules: Roles in cell adhesion, polarization, movement, and proliferation. <i>IUBMB Life</i> , 2006, 58, 334-343.	1.5	79
352	Living in Three Dimensions: 3D Nanostructured Environments for Cell Culture and Regenerative Medicine. <i>Cell Biochemistry and Biophysics</i> , 2006, 45, 215-228.	0.9	116
353	Nanotechnology for Cell-Substrate Interactions. <i>Annals of Biomedical Engineering</i> , 2006, 34, 59-74.	1.3	296
354	VASP-dependent regulation of actin cytoskeleton rigidity, cell adhesion, and detachment. <i>Histochemistry and Cell Biology</i> , 2006, 125, 457-474.	0.8	36
355	Expression of cell kinetics and death during monocyte-macrophage differentiation: effects of Actinomycin D and Vinblastine treatments. <i>Histochemistry and Cell Biology</i> , 2006, 127, 79-94.	0.8	15
356	Positive expression of E-cadherin suppresses cell adhesion to fibronectin via reduction of $\beta$ 1 integrin in human breast carcinoma cells. <i>Journal of Cancer Research and Clinical Oncology</i> , 2006, 132, 795-803.	1.2	22

#	ARTICLE	IF	CITATIONS
357	Fibronectin organization under and near cells. <i>European Biophysics Journal</i> , 2006, 35, 695-708.	1.2	15
358	The parvins. <i>Cellular and Molecular Life Sciences</i> , 2006, 63, 25-35.	2.4	85
359	Single molecule force spectroscopy discovers mechanochemical switches in biology: The case of the disulfide bond. <i>Polymer</i> , 2006, 47, 2571-2579.	1.8	12
360	Focal adhesions as mechanosensors: The two-spring model. <i>BioSystems</i> , 2006, 83, 225-232.	0.9	153
361	Overexpression of Kelch domain containing-2 (mKlhc2) inhibits differentiation and directed migration of C2C12 myoblasts. <i>Experimental Cell Research</i> , 2006, 312, 3049-3059.	1.2	8
362	Pathophysiology of leukocyte-tissue interactions. <i>Current Opinion in Cell Biology</i> , 2006, 18, 491-498.	2.6	16
363	Adhesion-mediated mechanosensitivity: a time to experiment, and a time to theorize. <i>Current Opinion in Cell Biology</i> , 2006, 18, 472-481.	2.6	350
364	Investigation of cell adhesion to structured surfaces using total internal reflection fluorescence and confocal laser scanning microscopy. <i>European Journal of Cell Biology</i> , 2006, 85, 225-228.	1.6	9
365	Integrin-linked kinase and its partners: A modular platform regulating cell-matrix adhesion dynamics and cytoskeletal organization. <i>European Journal of Cell Biology</i> , 2006, 85, 255-263.	1.6	41
366	Masters and servants of the force: The role of matrix adhesions in myofibroblast force perception and transmission. <i>European Journal of Cell Biology</i> , 2006, 85, 175-181.	1.6	243
367	Assembly and mechanosensory function of focal adhesions: experiments and models. <i>European Journal of Cell Biology</i> , 2006, 85, 165-173.	1.6	202
368	The molecular dynamics of osteoclast adhesions. <i>European Journal of Cell Biology</i> , 2006, 85, 203-211.	1.6	60
369	Substrate rigidity and force define form through tyrosine phosphatase and kinase pathways. <i>Trends in Cell Biology</i> , 2006, 16, 213-223.	3.6	238
370	Cellular response to phase-separated blends of tyrosine-derived polycarbonates. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 491-502.	2.1	19
371	Substrate mineralization stimulates focal adhesion contact redistribution and cell motility of bone marrow stromal cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 263-270.	2.1	17
372	Tyrosine phosphatase SHP-2 regulates IL-1 signaling in fibroblasts through focal adhesions. <i>Journal of Cellular Physiology</i> , 2006, 207, 132-143.	2.0	25
373	Dysregulation of the endothelial cellular response to oxidative stress in cancer. <i>Molecular Carcinogenesis</i> , 2006, 45, 362-367.	1.3	43
374	Nidogen and Nidogen-Associated Basement Membrane Proteins and Neuronal Plasticity. <i>Neurodegenerative Diseases</i> , 2006, 3, 56-61.	0.8	18

#	ARTICLE	IF	CITATIONS
375	Targeting and activation of Rac1 are mediated by the exchange factor $\hat{1}^2$ -Pix. Journal of Cell Biology, 2006, 172, 759-769.	2.3	221
376	Matricellular Hevin Regulates Decorin Production and Collagen Assembly. Journal of Biological Chemistry, 2006, 281, 27621-27632.	1.6	54
377	Integrins in the Ovary. Seminars in Reproductive Medicine, 2006, 24, 251-261.	0.5	32
378	Novel surface patterning approaches for tissue engineering and their effect on cell behavior. Nanomedicine, 2006, 1, 73-90.	1.7	57
379	Maspin is physically associated with $\hat{1}^21$ integrin regulating cell adhesion in mammary epithelial cells. FASEB Journal, 2006, 20, 1510-1512.	0.2	65
380	A Conformational Switch in Vinculin Drives Formation and Dynamics of a Talin-Vinculin Complex at Focal Adhesions*. Journal of Biological Chemistry, 2006, 281, 16006-16015.	1.6	145
381	Regulation of cell-matrix adhesion dynamics and Rac1 by integrin linked kinase. FASEB Journal, 2006, 20, 1489-1491.	0.2	47
382	Focal adhesion size controls tension-dependent recruitment of $\hat{1}^2$ -smooth muscle actin to stress fibers. Journal of Cell Biology, 2006, 172, 259-268.	2.3	625
383	Laminin-10 and Lutheran blood group glycoproteins in adhesion of human endothelial cells. American Journal of Physiology - Cell Physiology, 2006, 290, C764-C775.	2.1	29
384	HMG-CoA reductase inhibitor simvastatin mitigates VEGF-induced $\hat{1}^2$ -inside-out $\hat{1}^2$ -signaling to extracellular matrix by preventing RhoA activation. American Journal of Physiology - Renal Physiology, 2006, 291, F995-F1004.	1.3	32
385	$\hat{1}^3$ -Parvin Is Dispensable for Hematopoiesis, Leukocyte Trafficking, and T-Cell-Dependent Antibody Response. Molecular and Cellular Biology, 2006, 26, 1817-1825.	1.1	22
386	Activation of urokinase receptor by a novel interaction between the connecting peptide region of urokinase and $\hat{1}^2$ $\hat{1}^25$ integrin. Journal of Cell Science, 2006, 119, 3424-3434.	1.2	59
387	Probing the integrin-actin linkage using high-resolution protein velocity mapping. Journal of Cell Science, 2006, 119, 5204-5214.	1.2	165
388	Interaction of Integrin $\hat{1}^2$ $\hat{1}^23$ with Nectin. Journal of Biological Chemistry, 2006, 281, 19631-19644.	1.6	82
389	Podocyte-Specific Deletion of Integrin-Linked Kinase Results in Severe Glomerular Basement Membrane Alterations and Progressive Glomerulosclerosis. Journal of the American Society of Nephrology: JASN, 2006, 17, 1334-1344.	3.0	137
390	Focal adhesions are hotspots for keratin filament precursor formation. Journal of Cell Biology, 2006, 173, 341-348.	2.3	91
391	Involvement of the Src-cortactin pathway in podosome formation and turnover during polarization of cultured osteoclasts. Journal of Cell Science, 2006, 119, 4878-4888.	1.2	99
392	Myosin light chain kinase plays a role in the regulation of epithelial cell survival. Journal of Cell Science, 2006, 119, 2269-2281.	1.2	52

#	ARTICLE	IF	CITATIONS
393	Spatiotemporal dynamics of actin-rich adhesion microdomains: influence of substrate flexibility. <i>Journal of Cell Science</i> , 2006, 119, 1914-1925.	1.2	95
394	Tissue Assembly Guided via Substrate Biophysics: Applications to Hepatocellular Engineering. , 2006, 102, 1-46.		9
395	Anthrax Toxin Receptor 1/Tumor Endothelium Marker 8 Mediates Cell Spreading by Coupling Extracellular Ligands to the Actin Cytoskeleton. <i>Journal of Biological Chemistry</i> , 2006, 281, 23227-23236.	1.6	77
396	Î±1Î²1-integrin engagement to distinct laminin-1 domains orchestrates spreading, migration and survival of neural crest cells through independent signaling pathways. <i>Journal of Cell Science</i> , 2006, 119, 3206-3218.	1.2	37
397	KASH-domain proteins in nuclear migration, anchorage and other processes. <i>Journal of Cell Science</i> , 2006, 119, 5021-5029.	1.2	129
398	5â€“Fluoroorotic Acid. , 2005, , 587-587.		0
399	Perturbing integrin function inhibits microtubule growth from centrosomes, spindle assembly, and cytokinesis. <i>Journal of Cell Biology</i> , 2006, 174, 491-497.	2.3	76
400	Anisotropy of cell adhesive microenvironment governs cell internal organization and orientation of polarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19771-19776.	3.3	525
401	The Polycystin 1-C-terminal Fragment Stimulates ERK-dependent Spreading of Renal Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 26329-26339.	1.6	49
402	Rac1 and RhoA Promote Neurite Outgrowth through Formation and Stabilization of Growth Cone Point Contacts. <i>Journal of Neuroscience</i> , 2006, 26, 1418-1428.	1.7	170
403	Constitutive and UV-induced Fibronectin Degradation Is a Ubiquitination-dependent Process Controlled by Î²-TrCP. <i>Journal of Biological Chemistry</i> , 2006, 281, 23060-23065.	1.6	20
404	Integrin Ligands Mobilize Ca <sup>2+</sup> from Ryanodine Receptor-gated Stores and Lysosome-related Acidic Organelles in Pulmonary Arterial Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 34312-34323.	1.6	41
405	Fluorescence Correlation Spectroscopy. , 2005, , 576-578.		2
406	STRESS TRANSMISSION IN THE LUNG: Pathways from Organ to Molecule. <i>Annual Review of Physiology</i> , 2006, 68, 507-541.	5.6	104
407	Cellular adaptation to mechanical stress: role of integrins, Rho, cytoskeletal tension and mechanosensitive ion channels. <i>Journal of Cell Science</i> , 2006, 119, 508-518.	1.2	401
408	An inhibitory role for FAK in regulating proliferation: a link between limited adhesion and RhoA-ROCK signaling. <i>Journal of Cell Biology</i> , 2006, 174, 277-288.	2.3	158
409	Involvement of the Conserved Adaptor Protein Alix in Actin Cytoskeleton Assembly. <i>Journal of Biological Chemistry</i> , 2006, 281, 34640-34650.	1.6	57
410	Migfilin Interacts with Vasodilator-stimulated Phosphoprotein (VASP) and Regulates VASP Localization to Cell-Matrix Adhesions and Migration. <i>Journal of Biological Chemistry</i> , 2006, 281, 12397-12407.	1.6	57



#	ARTICLE	IF	CITATIONS
411	Magnetic microposts as an approach to apply forces to living cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14553-14558.	3.3	314
412	Engineered Cell-Adhesive Nanoparticles Nucleate Extracellular Matrix Assembly. Tissue Engineering, 2007, 13, 567-578.	4.9	7
413	MAP-kinase activity necessary for TGF $\beta$ 1-stimulated mesangial cell type I collagen expression requires adhesion-dependent phosphorylation of FAK tyrosine 397. Journal of Cell Science, 2007, 120, 4230-4240.	1.2	69
414	Mechanical Stretch Inhibits Oxidized Low Density Lipoprotein-induced Apoptosis in Vascular Smooth Muscle Cells by Up-regulating Integrin $\alpha$ 5 $\beta$ 3 and Stabilization of PINCH-1. Journal of Biological Chemistry, 2007, 282, 34268-34275.	1.6	25
415	Disease-associated mutant $\alpha$ -actinin-4 reveals a mechanism for regulating its F-actin-binding affinity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16080-16085.	3.3	135
416	Neurite outgrowth and branching of PC12 cells on very soft substrates sharply decreases below a threshold of substrate rigidity. Journal of Neural Engineering, 2007, 4, 26-34.	1.8	183
417	The Contributions of Integrin Affinity and Integrin-Cytoskeletal Engagement in Endothelial and Smooth Muscle Cell Adhesion to Vitronectin. Journal of Biological Chemistry, 2007, 282, 15679-15689.	1.6	29
418	CD98hc (SLC3A2) Interaction with the Integrin $\beta$ 2 Subunit Cytoplasmic Domain Mediates Adhesive Signaling. Journal of Biological Chemistry, 2007, 282, 24477-24484.	1.6	57
419	CTL-Associated Antigen-4 Ligation Induces Rapid T Cell Polarization That Depends on Phosphatidylinositol 3-Kinase, Vav-1, Cdc42, and Myosin Light Chain Kinase. Journal of Immunology, 2007, 179, 400-408.	0.4	28
420	Changes in Synaptic Morphology Accompany Actin Signaling during LTP. Journal of Neuroscience, 2007, 27, 5363-5372.	1.7	252
421	Reversine increases the plasticity of lineage-committed mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10482-10487.	3.3	99
422	FAK is required for axonal sorting by Schwann cells. Journal of Cell Biology, 2007, 176, 277-282.	2.3	98
423	Coupling biochemistry and mechanics in cell adhesion: a model for inhomogeneous stress fiber contraction. New Journal of Physics, 2007, 9, 425-425.	1.2	92
424	Edaravone mimics sphingosine-1-phosphate-induced endothelial barrier enhancement in human microvascular endothelial cells. American Journal of Physiology - Cell Physiology, 2007, 293, C1523-C1531.	2.1	7
425	Integrin $\alpha$ 5 $\beta$ 3 Controls Activity and Oncogenic Potential of Primed c-Src. Cancer Research, 2007, 67, 2693-2700.	0.4	52
426	Cyclical mechanical stretch modulates expression of collagen I and collagen III by PKC and tyrosine kinase in cardiac fibroblasts. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1898-R1907.	0.9	60
427	Fibronectin-dependent collagen I deposition modulates the cell response to fibronectin. American Journal of Physiology - Cell Physiology, 2007, 293, C1934-C1946.	2.1	155
428	Force-Induced Unfolding of Fibronectin in the Extracellular Matrix of Living Cells. PLoS Biology, 2007, 5, e268.	2.6	362



#	ARTICLE	IF	CITATIONS
429	Flux at Focal Adhesions: Slippage Clutch, Mechanical Gauge, or Signal Depot. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, pe10-pe10.	4.1	46
430	Nectin and Nectin-Like Molecules: Biology and Pathology. American Journal of Nephrology, 2007, 27, 590-604.	1.4	56
431	Redox Regulation of Ephrin/Integrin Cross-Talk. Cell Adhesion and Migration, 2007, 1, 33-42.	1.1	24
432	Focal Adhesion. Cell Adhesion and Migration, 2007, 1, 13-18.	1.1	45
433	Cell investigation of nanostructures: zero-mode waveguides for plasma membrane studies with single molecule resolution. Nanotechnology, 2007, 18, 195101.	1.3	48
434	Microfabricated Silicone Elastomeric Post Arrays for Measuring Traction Forces of Adherent Cells. Methods in Cell Biology, 2007, 83, 313-328.	0.5	87
435	Molecular Engineering of Cellular Environments: Cell Adhesion to Nano-Engineered Surfaces. Methods in Cell Biology, 2007, 83, 89-111.	0.5	98
436	Micropatterned silicone elastomer substrates for high resolution analysis of cellular force patterns. Review of Scientific Instruments, 2007, 78, 034301.	0.6	80
437	Chondrocyte Signaling and Artificial Matrices for Articular Cartilage Engineering. , 2006, 585, 67-86.		44
438	Epidermal hyperplasia and papillomatosis in mice with a keratinocyte-restricted deletion of csk. Carcinogenesis, 2007, 28, 2074-2081.	1.3	12
439	The Phosphorylation of Myosin II at the Ser1 and Ser2 Is Critical for Normal Platelet-derived Growth Factor-induced Reorganization of Myosin Filaments. Molecular Biology of the Cell, 2007, 18, 5081-5090.	0.9	36
440	Revealing Early Steps of $\alpha 2 \beta 1$ Integrin-mediated Adhesion to Collagen Type I by Using Single-Cell Force Spectroscopy. Molecular Biology of the Cell, 2007, 18, 1634-1644.	0.9	188
441	A Mechanistic Model for Paradoxical Platelet Activation by Ligand-Mimetic $\alpha \text{IIb} \beta 3$ (GPIIb/IIIa) Antagonists. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, e9-15.	1.1	77
442	Live imaging of collagen remodeling during angiogenesis. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H3198-H3206.	1.5	90
443	Plexin-B1 Utilizes RhoA and Rho Kinase to Promote the Integrin-dependent Activation of Akt and ERK and Endothelial Cell Motility. Journal of Biological Chemistry, 2007, 282, 34888-34895.	1.6	104
444	Vinculin controls focal adhesion formation by direct interactions with talin and actin. Journal of Cell Biology, 2007, 179, 1043-1057.	2.3	778
445	A paxillin tyrosine phosphorylation switch regulates the assembly and form of cell-matrix adhesions. Journal of Cell Science, 2007, 120, 137-148.	1.2	402
446	Methods for Identifying Novel Integrin Ligands. Methods in Enzymology, 2007, 426, 223-237.	0.4	8

#	ARTICLE	IF	CITATIONS
447	Mechanochemical Control of Cell Fate Switching. , 2007, , 207-216.		1
448	The MIG-2/Integrin Interaction Strengthens Cell-Matrix Adhesion and Modulates Cell Motility. Journal of Biological Chemistry, 2007, 282, 20455-20466.	1.6	154
449	Calreticulin Affects Fibronectin-based Cell-Substratum Adhesion via the Regulation of c-Src Activity. Journal of Biological Chemistry, 2007, 282, 16585-16598.	1.6	45
450	Forces and Bond Dynamics in Cell Adhesion. Science, 2007, 316, 1148-1153.	6.0	473
451	Wettability of substrata controls cellâ€“substrate and cellâ€“cell adhesions. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 1538-1547.	1.1	114
452	Regulation of post-translational modifications of muskelin by protein kinase C. International Journal of Biochemistry and Cell Biology, 2007, 39, 366-378.	1.2	11
453	The extracellular matrix as an adhesion checkpoint for mammary epithelial function. International Journal of Biochemistry and Cell Biology, 2007, 39, 715-726.	1.2	71
454	Cardiac valve interstitial cells secrete fibronectin and form fibrillar adhesions in response to injury. Cardiovascular Pathology, 2007, 16, 203-211.	0.7	57
455	Lebectin and lebecetin, two C-type lectins from snake venom, inhibit Î±5Î²1 and Î±v-containing integrins. Matrix Biology, 2007, 26, 306-313.	1.5	51
456	The alternatively spliced type III connecting segment of fibronectin is a zinc-binding module. Matrix Biology, 2007, 26, 485-493.	1.5	5
457	Improved growth factor directed vascularization into fibrin constructs through inclusion of additional extracellular molecules. Microvascular Research, 2007, 73, 84-94.	1.1	24
458	CD14 is a ligand for the integrin Î±4Î²1. FEBS Letters, 2007, 581, 757-763.	1.3	16
459	Integrins: Signaling, disease, and therapy. International Journal of Radiation Biology, 2007, 83, 743-751.	1.0	101
460	Annexin 2 Regulates Intestinal Epithelial Cell Spreading and Wound Closure through Rho-Related Signaling. American Journal of Pathology, 2007, 170, 951-966.	1.9	80
461	Fibroblast Differentiation in Wound Healing and Fibrosis. International Review of Cytology, 2007, 257, 143-179.	6.2	449
462	A new computational approach to analyze human protein complexes and predict novel protein interactions. Genome Biology, 2007, 8, R256.	13.9	8
463	Probing Intracellular Force Distributions by Highâ€“Resolution Live Cell Imaging and Inverse Dynamics. Methods in Cell Biology, 2007, 83, 199-235.	0.5	9
464	Density Control of Poly(ethylene glycol) Layer To Regulate Cellular Attachment. Langmuir, 2007, 23, 6698-6703.	1.6	76

#	ARTICLE	IF	CITATIONS
466	Analysis of Integrin Dynamics by Fluorescence Recovery After Photobleaching. <i>Methods in Molecular Biology</i> , 2007, 370, 173-201.	0.4	36
467	Influence of Systematically Varied Nano-Scale Topography on Cell Morphology and Adhesion. <i>Cell Communication and Adhesion</i> , 2007, 14, 181-194.	1.0	44
468	Differential Transmission of Actin Motion Within Focal Adhesions. <i>Science</i> , 2007, 315, 111-115.	6.0	460
469	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
470	Cellular chemomechanics at interfaces: sensing, integration and response. <i>Soft Matter</i> , 2007, 3, 307.	1.2	114
471	Cellular impedance biosensors for drug screening and toxin detection. <i>Analyst, The</i> , 2007, 132, 835.	1.7	169
472	Exploring cellular behaviour with multi-walled carbon nanotube constructs. <i>Journal of Materials Chemistry</i> , 2007, 17, 1894.	6.7	77
473	Cell morphology and migration linked to substrate rigidity. <i>Soft Matter</i> , 2007, 3, 1285.	1.2	58
474	Attachment of Cells to Islands Presenting Gradients of Adhesion Ligands. <i>Journal of the American Chemical Society</i> , 2007, 129, 8966-8967.	6.6	62
475	Scaffold with a Natural Mesh-like Architecture: Isolation, Structural, and in Vitro Characterization. <i>Biomacromolecules</i> , 2007, 8, 928-936.	2.6	42
476	Adhesion Protein Protocols. <i>Methods in Molecular Biology</i> , 2007, , .	0.4	2
477	Capillary-Induced Contact Guidance. <i>Langmuir</i> , 2007, 23, 10216-10223.	1.6	29
478	Roles of Membrane-type 1 Matrix Metalloproteinase in Tumor Invasion and Progression. <i>Journal of Oral Biosciences</i> , 2007, 49, 120-127.	0.8	1
479	The Stiffness of Collagen Fibrils Influences Vascular Smooth Muscle Cell Phenotype. <i>Biophysical Journal</i> , 2007, 92, 1759-1769.	0.2	141
480	Cell Spreading and Focal Adhesion Dynamics Are Regulated by Spacing of Integrin Ligands. <i>Biophysical Journal</i> , 2007, 92, 2964-2974.	0.2	840
481	Cell Force Microscopy on Elastic Layers of Finite Thickness. <i>Biophysical Journal</i> , 2007, 93, 3314-3323.	0.2	133
482	Dissecting focal adhesions in cells differentially expressing calreticulin: a microscopy study. <i>Biology of the Cell</i> , 2007, 99, 389-402.	0.7	9
483	Role of vitronectin and fibronectin receptors in oral mucosal and dermal myofibroblast differentiation. <i>Biology of the Cell</i> , 2007, 99, 601-614.	0.7	52

#	ARTICLE	IF	CITATIONS
484	Identification of a bipartite focal adhesion localization signal in RhoU/Wrchâ€¹, a Rho family GTPase that regulates cell adhesion and migration. <i>Biology of the Cell</i> , 2007, 99, 701-716.	0.7	57
485	Colloidal lithography and current fabrication techniques producing in-plane nanotopography for biological applications. <i>Journal of the Royal Society Interface</i> , 2007, 4, 1-17.	1.5	151
486	Integrin Cytoskeletal Interactions. <i>Methods in Enzymology</i> , 2007, 426, 69-84.	0.4	35
487	The Forces Behind Cell Movement. <i>International Journal of Biological Sciences</i> , 2007, 3, 303-317.	2.6	356
488	The extracellular matrix of the lung and its role in edema formation. <i>Anais Da Academia Brasileira De Ciencias</i> , 2007, 79, 285-297.	0.3	52
489	Retinoschisin Is a Peripheral Membrane Protein with Affinity for Anionic Phospholipids and Affected by Divalent Cations. , 2007, 48, 991.		52
490	Integrin Î±5 controls osteoblastic proliferation and differentiation responses to titanium substrates presenting different roughness characteristics in a roughness independent manner. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 700-710.	2.1	130
491	Effects of VitaxinÂ® , a novel therapeutic in trial for metastatic bone tumors, on osteoclast functions in vitro. <i>Journal of Cellular Biochemistry</i> , 2007, 102, 341-352.	1.2	52
492	Simplifying the extracellular matrix for 3-D cell culture and tissue engineering: A pragmatic approach. <i>Journal of Cellular Biochemistry</i> , 2007, 101, 1370-1383.	1.2	129
493	Continuous requirement for pp60-Src and phospho-paxillin during fibronectin matrix assembly by transformed cells. <i>Journal of Cellular Physiology</i> , 2007, 210, 750-756.	2.0	24
494	Changes in cholesterol levels in the plasma membrane modulate cell signaling and regulate cell adhesion and migration on fibronectin. <i>Cytoskeleton</i> , 2007, 64, 199-216.	4.4	70
495	Cell Migration Rate on Poly(É-caprolactone)/Poly(ethylene glycol) Diblock Copolymers and Correlation with the Material Sliding Angle. <i>Macromolecular Bioscience</i> , 2007, 7, 482-490.	2.1	12
496	Safrole oxide is a useful tool for investigating the effect of apoptosis in vascular endothelial cells on neural stem cell survival and differentiation in vitro. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 3167-3171.	1.0	5
497	Influence of single-walled carbon nanotube films on metabolic activity and adherence of human osteoblasts. <i>Carbon</i> , 2007, 45, 2266-2272.	5.4	43
498	RGDâ€”Functionalized polymer brushes as substrates for the integrin specific adhesion of human umbilical vein endothelial cells. <i>Biomaterials</i> , 2007, 28, 2536-2546.	5.7	252
499	Guidance of glial cell migration and axonal growth on electrospun nanofibers of poly-Î¼-caprolactone and a collagen/poly-Î¼-caprolactone blend. <i>Biomaterials</i> , 2007, 28, 3012-3025.	5.7	667
500	The effect of actin disrupting agents on contact guidance of human embryonic stem cells. <i>Biomaterials</i> , 2007, 28, 4068-4077.	5.7	211
501	Engineering RGD nanopatterned hydrogels to control preosteoblast behavior: A combined computational and experimental approach. <i>Biomaterials</i> , 2007, 28, 4409-4417.	5.7	143

#	ARTICLE	IF	CITATIONS
502	Folding of tandem-linked domains. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 67, 795-810.	1.5	8
503	Functional atlas of the integrin adhesome. <i>Nature Cell Biology</i> , 2007, 9, 858-867.	4.6	1,033
504	Tensin relief facilitates migration. <i>Nature Cell Biology</i> , 2007, 9, 877-879.	4.6	9
505	A reciprocal tensin-3â€œcten switch mediates EGF-driven mammary cell migration. <i>Nature Cell Biology</i> , 2007, 9, 961-969.	4.6	182
506	lluminating the metastatic process. <i>Nature Reviews Cancer</i> , 2007, 7, 737-749.	12.8	503
507	Microenvironmental regulation of biomacromolecular therapies. <i>Nature Reviews Drug Discovery</i> , 2007, 6, 455-463.	21.5	134
508	Synergistic control of cell adhesion by integrins and syndecans. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 957-969.	16.1	503
509	Integrin-mediated adhesion orients the spindle parallel to the substratum in an EB1- and myosin X-dependent manner. <i>EMBO Journal</i> , 2007, 26, 1487-1498.	3.5	251
510	Interdomain association in fibronectin: insight into cryptic sites and fibrillogenesis. <i>EMBO Journal</i> , 2007, 26, 2575-2583.	3.5	73
511	Formation and Function of the Myofibroblast during Tissue Repair. <i>Journal of Investigative Dermatology</i> , 2007, 127, 526-537.	0.3	1,277
512	Tissue Engineering for Cutaneous Wounds. <i>Journal of Investigative Dermatology</i> , 2007, 127, 1018-1029.	0.3	436
513	Establishment of cell polarity by afadin during the formation of embryoid bodies. <i>Genes To Cells</i> , 2008, 13, 79-90.	0.5	30
514	Response of human epithelial cells to culture surfaces with varied roughnesses prepared by immobilizing dendrimers with/without d-glucose display. <i>Journal of Bioscience and Bioengineering</i> , 2007, 103, 192-199.	1.1	31
515	Structure and mechanics of integrin-based cell adhesion. <i>Current Opinion in Cell Biology</i> , 2007, 19, 495-507.	2.6	368
516	Extracellular matrix: from atomic resolution to ultrastructure. <i>Current Opinion in Cell Biology</i> , 2007, 19, 578-583.	2.6	67
517	The roles of nectins in cell adhesions: cooperation with other cell adhesion molecules and growth factor receptors. <i>Current Opinion in Cell Biology</i> , 2007, 19, 593-602.	2.6	101
518	Redox signalling in anchorage-dependent cell growth. <i>Cellular Signalling</i> , 2007, 19, 672-682.	1.7	121
519	Initial osteoblast-like cell response to pure titanium and zirconia/alumina ceramics. <i>Dental Materials</i> , 2007, 23, 1349-1355.	1.6	64

#	ARTICLE	IF	CITATIONS
520	Novel functions of vimentin in cell adhesion, migration, and signaling. <i>Experimental Cell Research</i> , 2007, 313, 2050-2062.	1.2	638
521	Calcium phosphate surfaces promote osteogenic differentiation of mesenchymal stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 281-291.	1.6	218
522	Role of paragenome in development. <i>Russian Journal of Developmental Biology</i> , 2007, 38, 104-123.	0.1	9
523	Activation of Mechanosensitive Ion Channels by Forces Transmitted Through Integrins and the Cytoskeleton. <i>Current Topics in Membranes</i> , 2007, , 59-85.	0.5	14
524	Nanostructured Biocomposite Scaffolds Based on Collagen Coelectrospun with Nanohydroxyapatite. <i>Biomacromolecules</i> , 2007, 8, 631-637.	2.6	241
525	Micromechanical control of cell and tissue development: Implications for tissue engineering†. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 1306-1318.	6.6	192
526	Impact of receptor-ligand distance on adhesion cluster stability. <i>European Physical Journal E</i> , 2007, 22, 123-137.	0.7	62
527	Halothane affects focal adhesion proteins in the A 549 cells. <i>Molecular and Cellular Biochemistry</i> , 2007, 295, 59-64.	1.4	4
528	Morphology, cytoskeletal organization, and myosin dynamics of mouse embryonic fibroblasts cultured on nanofibrillar surfaces. <i>Molecular and Cellular Biochemistry</i> , 2007, 301, 241-249.	1.4	53
529	Analysis of the suitability of calreticulin inducible HEK cells for adhesion studies: microscopical and biochemical comparisons. <i>Molecular and Cellular Biochemistry</i> , 2007, 307, 237-248.	1.4	4
530	Brushes, cables, and anchors: Recent insights into multiscale assembly and mechanics of cellular structural networks. <i>Cell Biochemistry and Biophysics</i> , 2007, 47, 348-360.	0.9	19
531	Rational design of hydrogels for tissue engineering: Impact of physical factors on cell behavior. <i>Biomaterials</i> , 2007, 28, 134-146.	5.7	425
532	Reversible on-demand cell alignment using reconfigurable microtopography. <i>Biomaterials</i> , 2008, 29, 1705-1712.	5.7	83
533	The effect of extensible PEG tethers on shielding between grafted thermo-responsive polymer chains and integrinâ€“RGD binding. <i>Biomaterials</i> , 2008, 29, 3650-3655.	5.7	49
534	Inhibition of matrix metalloproteinases suppresses the migration of skeletal muscle cells. <i>Journal of Muscle Research and Cell Motility</i> , 2008, 29, 37-44.	0.9	57
535	Size Distribution and Molecular Associations of Plasma Fibronectin and Fibronectin Crosslinked by TransglutaminaseÂ2. <i>Protein Journal</i> , 2008, 27, 223-233.	0.7	47
536	Interactions of the cell adhesion molecule nectin with transmembrane and peripheral membrane proteins for pleiotropic functions. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 253-263.	2.4	28
537	Regulation of phagocyte migration and recruitment by Src-family kinases. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 2175-2190.	2.4	51

#	ARTICLE	IF	CITATIONS
538	Effect of microgravity on gene expression in mouse brain. <i>Experimental Brain Research</i> , 2008, 191, 289-300.	0.7	48
539	Recombinant collagen for animal product-free dextran microcarriers. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2008, 44, 407-414.	0.7	10
540	Lung Ischemia: A Model for Endothelial Mechanotransduction. <i>Cell Biochemistry and Biophysics</i> , 2008, 52, 125-138.	0.9	42
541	From Molecular Cell Engineering to Biologically Inspired Engineering. <i>Cellular and Molecular Bioengineering</i> , 2008, 1, 51-57.	1.0	5
542	Probing cellular microenvironments and tissue remodeling by atomic force microscopy. <i>Pflugers Archiv European Journal of Physiology</i> , 2008, 456, 29-49.	1.3	80
543	Use of staurosporine, an actin-modifying agent, to enhance fibrochondrocyte matrix gene expression and synthesis. <i>Cell and Tissue Research</i> , 2008, 334, 469-476.	1.5	15
544	Reduced paxillin expression contributes to the antimetastatic effect of 4-hydroxycoumarin on B16-F10 melanoma cells. <i>Cancer Cell International</i> , 2008, 8, 8.	1.8	25
545	Fak56 functions downstream of integrin alphaPS3betanu and suppresses MAPK activation in neuromuscular junction growth. <i>Neural Development</i> , 2008, 3, 26.	1.1	31
546	Structural organization of the cytoskeleton in SV40 human corneal epithelial cells cultured on nano- and microscale grooves. <i>Scanning</i> , 2008, 30, 405-413.	0.7	31
547	Cell-Compatible, Multicomponent Protein Arrays with Subcellular Feature Resolution. <i>Small</i> , 2008, 4, 1600-1604.	5.2	32
548	The hematopoietic stem cell niche: what are we trying to replicate?. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 421-443.	1.6	50
549	Three-Dimensional Encapsulation of Live Cells by Using a Hybrid Matrix of Nanoparticles in a Supramolecular Hydrogel. <i>Chemistry - A European Journal</i> , 2008, 14, 10808-10815.	1.7	33
550	Microwave plasma surface modification of silicone elastomer with allylamine for improvement of biocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 209-219.	2.1	38
551	Nanopatterning of fibronectin and the influence of integrin clustering on endothelial cell spreading and proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 176-195.	2.1	47
552	T cell adhesion mechanisms revealed by receptor lateral mobility. <i>Biopolymers</i> , 2008, 89, 409-419.	1.2	14
553	Control of epithelial cell structure and developmental fate: Lessons from <i>Helicobacter pylori</i> . <i>BioEssays</i> , 2008, 30, 515-520.	1.2	16
554	Enhancing cell affinity of nonadhesive hydrogel substrate: The role of silica hybridization. <i>Biotechnology Progress</i> , 2008, 24, 1142-1146.	1.3	16
555	Molecular simulation of protein adsorption and desorption on hydroxyapatite surfaces. <i>Biomaterials</i> , 2008, 29, 513-532.	5.7	249



#	ARTICLE	IF	CITATIONS
556	Engineered extracellular matrices with cleavable crosslinkers for cell expansion and easy cell recovery. <i>Biomaterials</i> , 2008, 29, 4521-4531.	5.7	94
557	Effects of extracellular matrix analogues on primary human fibroblast behavior. <i>Acta Biomaterialia</i> , 2008, 4, 67-75.	4.1	45
558	Three-dimensional matrix induces sustained activation of ERK1/2 via Src/Ras/Raf signaling pathway. <i>Cell Biology International</i> , 2008, 32, 229-234.	1.4	35
559	Extracellular Alix regulates integrin-mediated cell adhesions and extracellular matrix assembly. <i>EMBO Journal</i> , 2008, 27, 2077-2090.	3.5	22
560	Evolution of cell interactions with extracellular matrix during carcinogenesis. <i>Biochemistry (Moscow)</i> , 2008, 73, 733-741.	0.7	24
561	Differential function of Tie2 at cell-cell contacts and cell-substratum contacts regulated by angiopoietin-1. <i>Nature Cell Biology</i> , 2008, 10, 513-526.	4.6	316
562	Fluctuations of intracellular forces during cell protrusion. <i>Nature Cell Biology</i> , 2008, 10, 1393-1400.	4.6	168
563	Influence of biodegradable and non-biodegradable material surfaces on the differentiation of human monocyte-derived macrophages. <i>Differentiation</i> , 2008, 76, 232-244.	1.0	27
564	The $\beta 2$ integrins and cytoskeletal nanoimprinting. <i>Experimental Cell Research</i> , 2008, 314, 927-935.	1.2	22
565	Kinase-dependent adhesion to fibronectin: Regulation by calreticulin. <i>Experimental Cell Research</i> , 2008, 314, 1313-1326.	1.2	29
566	Syndecan-1 supports integrin $\beta 1$ -mediated adhesion to collagen. <i>Experimental Cell Research</i> , 2008, 314, 3369-3381.	1.2	65
567	FAK-independent $\beta 3$ integrin-EGFR complexes rescue from anoikis matrix-defective fibroblasts. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1177-1188.	1.9	27
568	Regulation of endothelial permeability by Src kinase signaling: Vascular leakage versus transcellular transport of drugs and macromolecules. <i>Chemico-Biological Interactions</i> , 2008, 171, 177-189.	1.7	96
569	The role of integrin binding sites in fibronectin matrix assembly in vivo. <i>Current Opinion in Cell Biology</i> , 2008, 20, 502-507.	2.6	248
570	Focal adhesion kinase mediates defects in the force-dependent reinforcement of initial integrin-cytoskeleton linkages in metastatic colon cancer cell lines. <i>European Journal of Cell Biology</i> , 2008, 87, 1-16.	1.6	18
571	Protein tyrosine phosphatases in osteoclast differentiation, adhesion, and bone resorption. <i>European Journal of Cell Biology</i> , 2008, 87, 479-490.	1.6	33
572	The microfilament system in the formation of invasive adhesions. <i>Seminars in Cancer Biology</i> , 2008, 18, 23-34.	4.3	32
573	Paxillin Dynamics Measured during Adhesion Assembly and Disassembly by Correlation Spectroscopy. <i>Biophysical Journal</i> , 2008, 94, 2819-2831.	0.2	135



#	ARTICLE	IF	CITATIONS
574	Endothelial Cell Migration on RGD-Peptide-Containing PEG Hydrogels in the Presence of Sphingosine 1-Phosphate. <i>Biophysical Journal</i> , 2008, 94, 273-285.	0.2	47
575	Cell Stiffening in Response to External Stress is Correlated to Actin Recruitment. <i>Biophysical Journal</i> , 2008, 94, 2906-2913.	0.2	84
576	Mucus Secretion and Cytoskeletal Modifications in Cultured Nasal Epithelial Cells Exposed to Wall Shear Stresses. <i>Biophysical Journal</i> , 2008, 95, 2998-3008.	0.2	51
577	Two Characteristic Regimes in Frequency-Dependent Dynamic Reorientation of Fibroblasts on Cyclically Stretched Substrates. <i>Biophysical Journal</i> , 2008, 95, 3470-3478.	0.2	221
578	Cooperativity in Adhesion Cluster Formation during Initial Cell Adhesion. <i>Biophysical Journal</i> , 2008, 95, 5424-5431.	0.2	114
579	Cell research with physically modified microfluidic channels: A review. <i>Lab on A Chip</i> , 2008, 8, 1015.	3.1	163
580	Tropomyosins Regulate the Impact of Actin Binding Proteins on Actin Filaments. <i>Advances in Experimental Medicine and Biology</i> , 2008, 644, 223-231.	0.8	13
581	The effect of geometry on three-dimensional tissue growth. <i>Journal of the Royal Society Interface</i> , 2008, 5, 1173-1180.	1.5	413
582	Use of Hyaluronan-Derived Hydrogels for Three-Dimensional Cell Culture and Tumor Xenografts. <i>Current Protocols in Cell Biology</i> , 2008, 40, Unit 10.14.	2.3	36
583	Tropomyosin. <i>Advances in Experimental Medicine and Biology</i> , 2008, , .	0.8	6
585	Lumican affects actin cytoskeletal organization in human melanoma A375 cells. <i>Life Sciences</i> , 2008, 83, 651-660.	2.0	31
586	Chapter 7 Mechanobiology of Adult and Stem Cells. <i>International Review of Cell and Molecular Biology</i> , 2008, 271, 301-346.	1.6	98
587	Adhesion dynamics: Mechanisms and measurements. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 2397-2409.	1.2	46
588	Osteocyte morphology in fibula and calvaria – Is there a role for mechanosensing?. <i>Bone</i> , 2008, 43, 452-458.	1.4	197
589	Enhancing trabecular outflow by disrupting the actin cytoskeleton, increasing uveoscleral outflow with prostaglandins, and understanding the pathophysiology of presbyopia. <i>Experimental Eye Research</i> , 2008, 86, 3-17.	1.2	62
590	Extracellular matrix in the trabecular meshwork. <i>Experimental Eye Research</i> , 2008, 86, 543-561.	1.2	411
591	Paxillin localisation in osteocytes – Is it determined by the direction of loading?. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 1019-1024.	1.0	42
592	Integrin Trafficking Regulated by Rab21 Is Necessary for Cytokinesis. <i>Developmental Cell</i> , 2008, 15, 371-385.	3.1	177

#	ARTICLE	IF	CITATIONS
593	Glucose transporter mediation responsible for morphological changes of human epithelial cells on glucose-displayed surfaces. <i>Journal of Bioscience and Bioengineering</i> , 2008, 105, 319-326.	1.1	8
594	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, 1551-1565.	1.9	126
595	The Immunoglobulin-Like Cell Adhesion Molecule Nectin and Its Associated Protein Afadin. <i>Annual Review of Cell and Developmental Biology</i> , 2008, 24, 309-342.	4.0	310
596	Fibronectin in aging extracellular matrix fibrils is progressively unfolded by cells and elicits an enhanced rigidity response. <i>Faraday Discussions</i> , 2008, 139, 229.	1.6	92
597	Zyxin emerges as a key player in the mechanotransduction at cell adhesive structures. <i>Communicative and Integrative Biology</i> , 2008, 1, 192-195.	0.6	65
598	Correlations between structure, material properties and bioproperties in self-assembled $\beta$ -hairpin peptide hydrogels. <i>Faraday Discussions</i> , 2008, 139, 251.	1.6	115
599	Force-induced fibronectin fibrillogenesis in vitro. <i>Soft Matter</i> , 2008, 4, 1998.	1.2	52
600	Induction of Cell Polarization and Migration by a Gradient of Nanoscale Variations in Adhesive Ligand Spacing. <i>Nano Letters</i> , 2008, 8, 2063-2069.	4.5	292
601	Cell-Substrate Interactions. , 2008, , 666-685.		2
602	Measurement of the Cell-Substrate Separation and the Projected Area of an Individual Adherent Cell Using Electric Cell-Substrate Impedance Sensing. <i>Analytical Chemistry</i> , 2008, 80, 3677-3683.	3.2	27
603	Proteomics Analysis Identifies Molecular Targets Related to Diabetes Mellitus-associated Bladder Dysfunction. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 1270-1285.	2.5	44
604	Cross-Talk Among Integrin, Cadherin, and Growth Factor Receptor: Roles of Nectin and Nectin-Like Molecule. <i>International Review of Cytology</i> , 2008, 265, 1-54.	6.2	42
605	Concerted regulation of focal adhesion dynamics by galectin-3 and tyrosine-phosphorylated caveolin-1. <i>Journal of Cell Biology</i> , 2008, 180, 1261-1275.	2.3	171
606	Integrin $\beta$ 1 Subunit Controls Mural Cell Adhesion, Spreading, and Blood Vessel Wall Stability. <i>Circulation Research</i> , 2008, 102, 562-570.	2.0	103
607	Directing osteogenic and myogenic differentiation of MSCs: interplay of stiffness and adhesive ligand presentation. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C1037-C1044.	2.1	458
608	Engineering a clinically-useful matrix for cell therapy. <i>Organogenesis</i> , 2008, 4, 42-47.	0.4	101
609	LOX-1 and inflammation: a new mechanism for renal injury in obesity and diabetes. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, F1136-F1145.	1.3	56
610	Mesenchymal stem cells for vascular regeneration. <i>Regenerative Medicine</i> , 2008, 3, 877-892.	0.8	111

#	ARTICLE	IF	CITATIONS
611	Mechanical forces facilitate actin polymerization at focal adhesions in a zyxin-dependent manner. <i>Journal of Cell Science</i> , 2008, 121, 2795-2804.	1.2	210
612	Directional control of cell motility through focal adhesion positioning and spatial control of Rac activation. <i>FASEB Journal</i> , 2008, 22, 1649-1659.	0.2	140
613	An essential role for Rac1 in endothelial cell function and vascular development. <i>FASEB Journal</i> , 2008, 22, 1829-1838.	0.2	193
614	Integrin-dependent phagocytosis "spreading from microadhesion to new concepts. <i>Journal of Cell Science</i> , 2008, 121, 1773-1783.	1.2	208
615	Mechanical Control of Tissue Morphogenesis. <i>Circulation Research</i> , 2008, 103, 234-243.	2.0	135
616	Involvement of Nectin in Inactivation of Integrin $\alpha_5\beta_3$ after the Establishment of Cell-Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2008, 283, 496-505.	1.6	33
617	Mechanosensing machinery for cells under low substratum rigidity. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C1579-C1589.	2.1	68
618	PINCH-1 Regulates the ERK-Bim Pathway and Contributes to Apoptosis Resistance in Cancer Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 2508-2517.	1.6	67
619	Fibronectin fibrillogenesis regulates three-dimensional neovessel formation. <i>Genes and Development</i> , 2008, 22, 1231-1243.	2.7	179
620	Extracellular matrix-specific focal adhesions in vascular smooth muscle produce mechanically active adhesion sites. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C268-C278.	2.1	107
621	Bradykinin modulates focal adhesions and induces stress fiber remodeling in renal papillary collecting duct cells. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, F603-F613.	1.3	9
622	Progressive myopathy and defects in the maintenance of myotendinous junctions in mice that lack talin 1 in skeletal muscle. <i>Development (Cambridge)</i> , 2008, 135, 2043-2053.	1.2	47
623	Paxillin comes of age. <i>Journal of Cell Science</i> , 2008, 121, 2435-2444.	1.2	429
624	Fibrogenic fibroblasts increase intercellular adhesion strength by reinforcing individual OB-cadherin bonds. <i>Journal of Cell Science</i> , 2008, 121, 877-886.	1.2	69
625	Mechanical Determinants of Tissue Development. , 2008, , 480-497.		1
626	Binding of soluble fibronectin to integrin $\alpha_5\beta_1$ "link to focal adhesion redistribution and contractile shape. <i>Journal of Cell Science</i> , 2008, 121, 2452-2462.	1.2	123
627	Caveolin-1-dependent $\beta_1$ integrin endocytosis is a critical regulator of fibronectin turnover. <i>Journal of Cell Science</i> , 2008, 121, 2360-2371.	1.2	220
628	Monitoring cell adhesion and characterizing cell viscoelasticity by using thickness shear mode (TSM) resonate sensor. , 2008, ,		0

#	ARTICLE	IF	CITATIONS
629	Magnetic microposts for mechanical stimulation of biological cells: Fabrication, characterization, and analysis. <i>Review of Scientific Instruments</i> , 2008, 79, 044302.	0.6	61
630	Human Chondrocyte Morphology, Its Dedifferentiation, and Fibronectin Conformation on Different PLLA Microtopographies. <i>Tissue Engineering - Part A</i> , 2008, 14, 1751-1762.	1.6	41
631	Influence of microvascular endothelial cells on transcriptional regulation of proximal tubular epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C543-C554.	2.1	46
632	Early stage cancer cell invasion: signaling, biomarkers and therapeutic targeting. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 6314.	3.0	8
633	Rest-Mediated Regulation of Extracellular Matrix Is Crucial for Neural Development. <i>PLoS ONE</i> , 2008, 3, e3656.	1.1	41
634	Comparative Dynamics of Retrograde Actin Flow and Focal Adhesions: Formation of Nascent Adhesions Triggers Transition from Fast to Slow Flow. <i>PLoS ONE</i> , 2008, 3, e3234.	1.1	223
635	Substrate Rigidity Modulates Cell-Matrix Interactions and Protein Expression in Human Trabecular Meshwork Cells. , 2008, 49, 262.		99
636	Regulation of epithelial cell adhesion and repulsion: role of endocytic recycling. <i>Journal of Medical Investigation</i> , 2008, 55, 9-16.	0.2	19
637	Regulating Bone Resorption. , 2008, , 221-236.		3
638	Adhesion Dynamics in Motile Cells. , 0, , 71-88.		1
639	Inflammatory Pain. , 2009, , 1952-1955.		4
640	Tensegrity as a Mechanism for Integrating Molecular and Cellular Mechanotransduction Mechanisms. , 2009, , 196-219.		2
641	Translating Mechanical Force into Discrete Biochemical Signal Changes. , 0, , 286-338.		0
642	Micro- and Nanoscale Force Techniques for Mechanotransduction. , 0, , 377-402.		0
643	Identification of the Active Site in the Heparin II Domain of Fibronectin that Increases Outflow Facility in Cultured Monkey Anterior Segments. , 2009, 50, 235.		23
644	Effects of Platelet-Derived Growth Factor on Aqueous Humor Dynamics. , 2009, 50, 3833.		7
645	Bone cells-biomaterials interactions. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 1023.	3.0	56
646	Understanding Sensory Nerve Mechanotransduction through Localized Elastomeric Matrix Control. <i>PLoS ONE</i> , 2009, 4, e4293.	1.1	61

#	ARTICLE	IF	CITATIONS
647	The coordination between actin filaments and adhesion in mesenchymal migration. <i>Cell Adhesion and Migration</i> , 2009, 3, 355-357.	1.1	33
648	Three-Dimensional Synthetic Niche Components to Control Germ Cell Proliferation. <i>Tissue Engineering - Part A</i> , 2009, 15, 255-262.	1.6	26
649	High-Resolution Probing of Cellular Force Transmission. <i>Physical Review Letters</i> , 2009, 102, 168102.	2.9	82
650	Î²1 Integrin Cytoplasmic Domain Residues Selectively Modulate Fibronectin Matrix Assembly and Cell Spreading through Talin and Akt-1. <i>Journal of Biological Chemistry</i> , 2009, 284, 8148-8159.	1.6	33
651	Force-induced cell polarisation is linked to RhoA-driven microtubule-independent focal-adhesion sliding. <i>Journal of Cell Science</i> , 2009, 122, 3644-3651.	1.2	104
652	Presenilin 1 Affects Focal Adhesion Site Formation and Cell Force Generation via c-Src Transcriptional and Posttranslational Regulation. <i>Journal of Biological Chemistry</i> , 2009, 284, 10138-10149.	1.6	16
653	Retinotopic Mapping Requires Focal Adhesion Kinase-Mediated Regulation of Growth Cone Adhesion. <i>Journal of Neuroscience</i> , 2009, 29, 13981-13991.	1.7	51
654	Genetic and cell biological analysis of integrin outside-in signaling. <i>Genes and Development</i> , 2009, 23, 397-418.	2.7	637
655	Talin 1 and 2 are required for myoblast fusion, sarcomere assembly and the maintenance of myotendinous junctions. <i>Development (Cambridge)</i> , 2009, 136, 3597-3606.	1.2	99
656	Multiparametric analysis of focal adhesion formation by RNAi-mediated gene knockdown. <i>Journal of Cell Biology</i> , 2009, 186, 423-436.	2.3	56
657	Protein Tyrosine Phosphatase Epsilon Regulates Integrin-mediated Podosome Stability in Osteoclasts by Activating Src. <i>Molecular Biology of the Cell</i> , 2009, 20, 4324-4334.	0.9	53
658	ECM and FGF-Dependent Assay of Embryonic SMG Epithelial Morphogenesis: Investigating Growth Factor/Matrix Regulation of Gene Expression During Submandibular Gland Development. <i>Methods in Molecular Biology</i> , 2009, 522, 319-330.	0.4	33
659	Nanoparticle-based Calcium Phosphate Substrates: Gas Phase Synthesis and Potential Applications. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1236, 1.	0.1	0
660	Structural Basis of Focal Adhesion Localization of LIM-only Adaptor PINCH by Integrin-linked Kinase. <i>Journal of Biological Chemistry</i> , 2009, 284, 5836-5844.	1.6	32
661	Mechanisms that regulate adaptor binding to Î²-integrin cytoplasmic tails. <i>Journal of Cell Science</i> , 2009, 122, 187-198.	1.2	339
662	Molecular dissection of the ILK-PINCH-parvin triad reveals a fundamental role for the ILK kinase domain in the late stages of focal-adhesion maturation. <i>Journal of Cell Science</i> , 2009, 122, 1800-1811.	1.2	81
663	Determination of Cellular Traction on Elastic Substrate Based on an Integral Boussinesq Solution. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 061009.	0.6	32
664	The Role of Collagen Crosslinking in Differentiation of Human Mesenchymal Stem Cells and MC3T3-E1 Cells. <i>Tissue Engineering - Part A</i> , 2009, 15, 3857-3867.	1.6	42

#	ARTICLE	IF	CITATIONS
665	The Potential of Nanoporous Anodic Aluminium Oxide Membranes to Influence Skin Wound Repair. <i>Tissue Engineering - Part A</i> , 2009, 15, 3753-3763.	1.6	46
666	Bidirectional control of the inner dynamics of focal adhesions promotes cell migration. <i>Cell Adhesion and Migration</i> , 2009, 3, 185-190.	1.1	26
667	The role of focal adhesion kinase in tumor initiation and progression. <i>Cell Adhesion and Migration</i> , 2009, 3, 347-350.	1.1	81
668	Application of Stem Cells for Articular Cartilage Regeneration. <i>Journal of Knee Surgery</i> , 2009, 22, 60-71.	0.9	42
669	Endothelial barrier protection by FTY720 under hyperglycemic condition: involvement of focal adhesion kinase, small GTPases, and adherens junction proteins. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C945-C954.	2.1	11
670	Nonparametric density estimation and optimal bandwidth selection for protein unfolding and unbinding data. <i>Journal of Chemical Physics</i> , 2009, 130, 015102.	1.2	21
671	Proteomic Analysis of Integrin-Associated Complexes Identifies RCC2 as a Dual Regulator of Rac1 and Arf6. <i>Science Signaling</i> , 2009, 2, ra51.	1.6	220
672	Nudel and FAK as Antagonizing Strength Modulators of Nascent Adhesions through Paxillin. <i>PLoS Biology</i> , 2009, 7, e1000116.	2.6	46
673	Integrin Proteomes Reveal a New Guide for Cell Motility. <i>Science Signaling</i> , 2009, 2, pe58.	1.6	14
674	Integrin $\beta$ -dependent $\beta$ -catenin phosphorylation links epithelial Smad signaling to cell contacts. <i>Journal of Cell Biology</i> , 2009, 184, 309-322.	2.3	161
675	Integrin $\beta$ -focal adhesion kinase signaling directs the proliferation of metastatic cancer cells disseminated in the lungs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10290-10295.	3.3	329
676	Expression and Organization of Basement Membranes and Focal Adhesion Proteins in Pregnant Myometrium is Regulated by Uterine Stretch. <i>Reproductive Sciences</i> , 2009, 16, 960-969.	1.1	10
677	Dynamic changes in Rap1 activity are required for cell retraction and spreading during mitosis. <i>Journal of Cell Science</i> , 2009, 122, 2996-3004.	1.2	83
678	Reduction of Lysyl Hydroxylase 3 Causes Deleterious Changes in the Deposition and Organization of Extracellular Matrix. <i>Journal of Biological Chemistry</i> , 2009, 284, 28204-28211.	1.6	45
679	One step ahead: Role of filopodia in adhesion formation during cell migration of keratinocytes. <i>Experimental Cell Research</i> , 2009, 315, 1212-1224.	1.2	63
680	Disruption of the novel gene fad104 causes rapid postnatal death and attenuation of cell proliferation, adhesion, spreading and migration. <i>Experimental Cell Research</i> , 2009, 315, 809-819.	1.2	32
681	Cell fate regulation by coupling mechanical cycles to biochemical signaling pathways. <i>Current Opinion in Cell Biology</i> , 2009, 21, 38-46.	2.6	248
682	Capillary Force Lithography: A Versatile Tool for Structured Biomaterials Interface Towards Cell and Tissue Engineering. <i>Advanced Functional Materials</i> , 2009, 19, 2699-2712.	7.8	143

#	ARTICLE	IF	CITATIONS
683	Fibroblast elongation and dendritic extensions in constrained versus unconstrained microtissues. <i>Cytoskeleton</i> , 2009, 66, 129-141.	4.4	17
684	The behavior of MC3T3-E1 cells on chitosan/poly-L-lysine composite films: Effect of nanotopography, surface chemistry, and wettability. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 453-465.	2.1	51
685	Designing tailored biomaterial surfaces to direct keratinocyte morphology, attachment, and differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 999-1009.	2.1	14
686	Modulation of Osteogenic Differentiation of Human Mesenchymal Stem Cells by Poly[(lactide-co-glycolide)/ε-caprolactone]/Gelatin Nanofibers. <i>Macromolecular Bioscience</i> , 2009, 9, 795-804.	2.1	35
687	In vitro stage-specific chondrogenesis of mesenchymal stem cells committed to chondrocytes. <i>Arthritis and Rheumatism</i> , 2009, 60, 450-459.	6.7	110
688	Integrin $\alpha 3$ down-regulates invasive features of ovarian cancer cells in SKOV3 cell subclones. <i>Journal of Cancer Research and Clinical Oncology</i> , 2009, 135, 909-917.	1.2	26
689	Src family kinases as mediators of endothelial permeability: effects on inflammation and metastasis. <i>Cell and Tissue Research</i> , 2009, 335, 249-259.	1.5	77
690	Enhanced osteoblast adhesion on transglutaminase 2-crosslinked fibronectin. <i>Amino Acids</i> , 2009, 36, 747-753.	1.2	32
691	The gene-expression and phenotypic response of hFOB 1.19 osteoblasts to surface-modified titanium and zirconia. <i>Biomaterials</i> , 2009, 30, 979-990.	5.7	140
692	Collagen-chitosan polymer as a scaffold for the proliferation of human adipose tissue-derived stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 799-808.	1.7	66
693	Fibronectin modulates the morphology of osteoblast-like cells (MG-63) on nano-grooved substrates. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 1367-1378.	1.7	45
694	The Role of Vinculin in the Regulation of the Mechanical Properties of Cells. <i>Cell Biochemistry and Biophysics</i> , 2009, 53, 115-126.	0.9	117
695	Role of protein-tyrosine phosphatases in regulation of osteoclastic activity. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 1946-1961.	2.4	14
696	Zyxin is a novel interacting partner for SIRT1. <i>BMC Cell Biology</i> , 2009, 10, 6.	3.0	29
697	Force probing surfaces of living cells to molecular resolution. <i>Nature Chemical Biology</i> , 2009, 5, 383-390.	3.9	430
698	A tense situation: forcing tumour progression. <i>Nature Reviews Cancer</i> , 2009, 9, 108-122.	12.8	1,636
699	Environmental sensing through focal adhesions. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 21-33.	16.1	2,205
700	The membrane-anchored metalloproteinase regulator RECK stabilizes focal adhesions and anterior-posterior polarity in fibroblasts. <i>Oncogene</i> , 2009, 28, 1454-1464.	2.6	46



#	ARTICLE	IF	CITATIONS
701	Beta4 integrin promotes osteosarcoma metastasis and interacts with ezrin. <i>Oncogene</i> , 2009, 28, 3401-3411.	2.6	66
702	Matrix density-induced mechanoregulation of breast cell phenotype, signaling and gene expression through a FAK $\rightarrow$ ERK linkage. <i>Oncogene</i> , 2009, 28, 4326-4343.	2.6	557
703	PEST family phosphatases in immunity, autoimmunity, and autoinflammatory disorders. <i>Immunological Reviews</i> , 2009, 228, 312-324.	2.8	104
704	Design of Fibrin Matrix Composition to Enhance Endothelial Cell Growth and Extracellular Matrix Deposition for In Vitro Tissue Engineering. <i>Artificial Organs</i> , 2009, 33, 16-25.	1.0	14
705	$\beta$ -Synuclein induces migration of BV-2 microglial cells by up-regulation of CD44 and MT1-MMP. <i>Journal of Neurochemistry</i> , 2009, 109, 1483-1496.	2.1	52
706	Fabrication of highly ordered metallic arrays and silicon pillars with controllable size using nanosphere lithography. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1600-1603.	1.3	10
707	Cellular traction force recovery: An optimal filtering approach in two-dimensional Fourier space. <i>Journal of Theoretical Biology</i> , 2009, 259, 811-819.	0.8	33
708	Presence of high-molecular-weight forms and domain alterations of fibronectin in pleural effusion of patients with lung cancer. <i>Clinical Biochemistry</i> , 2009, 42, 654-661.	0.8	13
709	The impact of primary and secondary ligand coupling on extracellular matrix characteristics and formation of endothelial capillaries. <i>Biomaterials</i> , 2009, 30, 35-44.	5.7	12
710	Composite polymer systems with control of local substrate elasticity and their effect on cytoskeletal and morphological characteristics of adherent cells. <i>Biomaterials</i> , 2009, 30, 3136-3142.	5.7	93
711	The treatment of collagen fibrils by tissue transglutaminase to promote vascular smooth muscle cell contractile signaling. <i>Biomaterials</i> , 2009, 30, 5486-5496.	5.7	48
712	<i>Ex vivo</i> expansion of adipose tissue-derived stem cells in spinner flasks. <i>Biotechnology Journal</i> , 2009, 4, 1198-1209.	1.8	31
713	Biological Activity of the Substrate-Induced Fibronectin Network: Insight into the Third Dimension through Electrospun Fibers. <i>Langmuir</i> , 2009, 25, 10893-10900.	1.6	51
714	How Focal Adhesion Size Depends on Integrin Affinity. <i>Langmuir</i> , 2009, 25, 1540-1546.	1.6	23
715	Integrin $\beta$ 9 Is Required for Fibronectin Matrix Assembly during Lymphatic Valve Morphogenesis. <i>Developmental Cell</i> , 2009, 17, 175-186.	3.1	290
716	Epidermal growth factor-induced ovarian carcinoma cell migration is associated with JAK2/STAT3 signals and changes in the abundance and localization of $\beta$ 1 integrin. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 1034-1045.	1.2	47
717	Lumican core protein inhibits melanoma cell migration via alterations of focal adhesion complexes. <i>Cancer Letters</i> , 2009, 283, 92-100.	3.2	61
718	Integrin reconstituted in GUVs: A biomimetic system to study initial steps of cell spreading. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2291-2300.	1.4	60

#	ARTICLE	IF	CITATIONS
719	Comparing the mechanical influence of vinculin, focal adhesion kinase and p53 in mouse embryonic fibroblasts. <i>Biochemical and Biophysical Research Communications</i> , 2009, 379, 799-801.	1.0	15
720	Targeting of the protein interaction site between FAK and IGF-1R. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 301-305.	1.0	30
721	Tissue and matrix influences on airway smooth muscle function. <i>Pulmonary Pharmacology and Therapeutics</i> , 2009, 22, 379-387.	1.1	40
722	Electromagnetic effects " From cell biology to medicine. <i>Progress in Histochemistry and Cytochemistry</i> , 2009, 43, 177-264.	5.1	317
723	The elastic modulus of Matrigel <sup>®</sup> as determined by atomic force microscopy. <i>Journal of Structural Biology</i> , 2009, 167, 216-219.	1.3	222
724	Endothelial cell adhesion, signaling, and morphogenesis in fibroblast-derived matrix. <i>Matrix Biology</i> , 2009, 28, 273-283.	1.5	79
725	Myofibroblasts work best under stress. <i>Journal of Bodywork and Movement Therapies</i> , 2009, 13, 121-127.	0.5	60
726	The actin cytoskeleton in endothelial cell phenotypes. <i>Microvascular Research</i> , 2009, 77, 53-63.	1.1	229
727	Changing the Mechanical Unfolding Pathway of FnIII10 by Tuning the Pulling Strength. <i>Biophysical Journal</i> , 2009, 96, 429-441.	0.2	42
728	Dissecting the Impact of Matrix Anchorage and Elasticity in Cell Adhesion. <i>Biophysical Journal</i> , 2009, 97, 2154-2163.	0.2	38
729	Anchorage of Vinculin to Lipid Membranes Influences Cell Mechanical Properties. <i>Biophysical Journal</i> , 2009, 97, 3105-3112.	0.2	38
730	Effects of nanotopography on stem cell phenotypes. <i>World Journal of Stem Cells</i> , 2009, 1, 55.	1.3	77
731	Impact of Order and Disorder in RGD Nanopatterns on Cell Adhesion. <i>Nano Letters</i> , 2009, 9, 1111-1116.	4.5	501
732	The design of novel nanostructures on titanium by solution chemistry for an improved osteoblast response. <i>Nanotechnology</i> , 2009, 20, 195101.	1.3	91
733	PRL-3 promotes the motility, invasion, and metastasis of LoVo colon cancer cells through PRL-3-integrin $\beta$ 1-ERK1/2 and-MMP2 signaling. <i>Molecular Cancer</i> , 2009, 8, 110.	7.9	81
734	Chapter 1 Focal Adhesions: New Angles on an Old Structure. <i>International Review of Cell and Molecular Biology</i> , 2009, 277, 1-65.	1.6	71
735	Fluorescent Labeling Techniques for Investigation of Fibronectin Fibrillogenesis (Labeling Fibronectin) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	20
736	Extracellular Matrix Protocols. <i>Methods in Molecular Biology</i> , 2009, , .	0.4	6

#	ARTICLE	IF	CITATIONS
737	Cell interactions with hierarchically structured nano-patterned adhesive surfaces. <i>Soft Matter</i> , 2009, 5, 72-77.	1.2	167
738	Inferior Colliculus. , 2009, , 1947-1950.		0
739	Human neural cell interactions with orientated electrospun nanofibers <i>in vitro</i>. <i>Nanomedicine</i> , 2009, 4, 11-30.	1.7	99
740	A cooperative polymer-DNA microarray approach to biomaterial investigation. <i>Lab on A Chip</i> , 2009, 9, 397-403.	3.1	32
741	AÎ-, C-Fibers. , 2008, , 2-2.		0
742	A cell culture system with better spatial and time resolution. , 2009, , .		1
743	Regulation of fibronectin matrix assembly and capillary morphogenesis in endothelial cells by Rho family GTPases. <i>Experimental Cell Research</i> , 2009, 315, 2092-2104.	1.2	40
744	Kindlin-1 Is Required for RhoGTPase-Mediated Lamellipodia Formation in Keratinocytes. <i>American Journal of Pathology</i> , 2009, 175, 1442-1452.	1.9	69
745	Biophysical models of tumour growth. <i>Reports on Progress in Physics</i> , 2009, 72, 056701.	8.1	145
746	Focal Adhesion Kinase Functions as an Akt Downstream Target in Migration of Colorectal Cancer Cells. <i>Translational Oncology</i> , 2009, 2, 281-290.	1.7	32
747	From Traction and Contraction to Wound Closure. <i>Journal of Wound, Ostomy and Continence Nursing</i> , 2009, 36, 365-366.	0.6	0
748	Cell response to surface chemistry in biomaterials. , 2009, , 462-478.		0
749	Paxillin nuclear-cytoplasmic localization is regulated by phosphorylation of the LD4 motif: evidence that nuclear paxillin promotes cell proliferation. <i>Biochemical Journal</i> , 2009, 418, 173-184.	1.7	69
750	Dermal Connective Tissue as the Foundation for Healthy-Looking Skin. , 2009, , 269-286.		0
751	Mechanical Receptorâ€“Related Mechanisms in Scar Management: A Review and Hypothesis. <i>Plastic and Reconstructive Surgery</i> , 2010, 126, 426-434.	0.7	70
752	Nanofabrication of Nonfouling Surfaces for Micropatterning of Cell and Microtissue. <i>Molecules</i> , 2010, 15, 5525-5546.	1.7	27
753	MICROPATTERNED POLYMER STRUCTURES FOR CELL AND TISSUE ENGINEERING. , 2010, , 101-120.		0
754	JNK mediates insulin-like growth factor binding protein 2/integrin Î±5-dependent glioma cell migration. <i>International Journal of Oncology</i> , 2010, 37, 143-53.	1.4	54

#	ARTICLE	IF	CITATIONS
755	Entropy-driven aggregation of adhesion sites of supported membranes. <i>European Physical Journal E</i> , 2010, 33, 81-87.	0.7	18
756	Dynamic interactions between cells and their extracellular matrix mediate embryonic development. <i>Molecular Reproduction and Development</i> , 2010, 77, 475-488.	1.0	27
757	Insights into the Dynamics of Focal Adhesion Protein Trafficking in Invasive Cancer Cells and Clinical Implications. <i>Cancer Metastasis - Biology and Treatment</i> , 2010, , 137-155.	0.1	0
758	Dynamic control over cell adhesive properties using molecular-based surface engineering strategies. <i>Chemical Society Reviews</i> , 2010, 39, 354-378.	18.7	209
759	Cardiomyocyte contractile status is associated with differences in fibronectin and integrin interactions. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H2071-H2081.	1.5	61
760	Systems microscopy approaches to understand cancer cell migration and metastasis. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 3219-3240.	2.4	31
761	The biomechanical integrin. <i>Journal of Biomechanics</i> , 2010, 43, 38-44.	0.9	80
762	Intrinsic extracellular matrix properties regulate stem cell differentiation. <i>Journal of Biomechanics</i> , 2010, 43, 55-62.	0.9	697
763	Synchronization of <i>Dictyostelium discoideum</i> adhesion and spreading using electrostatic forces. <i>Bioelectrochemistry</i> , 2010, 79, 198-210.	2.4	9
764	Mechanism of cell repulsion on quasi-aligned nanowire arrays on Ti alloy. <i>Biomaterials</i> , 2010, 31, 8341-8349.	5.7	52
765	Peptide Interfacial Biomaterials Improve Endothelial Cell Adhesion and Spreading on Synthetic Polyglycolic Acid Materials. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1965-1976.	1.3	46
766	Diamond and Diamond-like Carbon Coated Surfaces as Biomaterials. <i>BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik</i> , 2010, 155, 528-533.	0.4	8
767	Artificial implants for the regeneration of peripheral nerves. <i>E-Neuroforum</i> , 2010, 16, 52-59.	0.2	0
768	Microfabricated substrates as a tool to study cell mechanotransduction. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 965-976.	1.6	62
769	Cytoskeletal Disassembly and Cell Rounding Promotes Adipogenesis from ES Cells. <i>Stem Cell Reviews and Reports</i> , 2010, 6, 74-85.	5.6	42
770	The contribution of adhesion signaling to lactogenesis. <i>Journal of Cell Communication and Signaling</i> , 2010, 4, 131-139.	1.8	18
771	Fibronectin- $\alpha$ 5 $\beta$ 1 integrin mediated signaling in human cervical cancer cells (SiHa). <i>Molecular and Cellular Biochemistry</i> , 2010, 336, 65-74.	1.4	35
772	Focal adhesion kinase-dependent regulation of adhesive forces involves vinculin recruitment to focal adhesions. <i>Biology of the Cell</i> , 2010, 102, 203-213.	0.7	44

#	ARTICLE	IF	CITATIONS
773	Rheological properties of natural waters with regard to plankton thin layers. A short review. <i>Journal of Marine Systems</i> , 2010, 83, 287-297.	0.9	28
774	Engineered materials and the cellular microenvironment: a strengthening interface between cell biology and bioengineering. <i>Trends in Cell Biology</i> , 2010, 20, 705-714.	3.6	62
775	Cellâ€“Matrix Adhesion: Slip and Immobilization under Force. <i>Current Biology</i> , 2010, 20, R669-R671.	1.8	2
776	Adhesion signalling complexes. <i>Current Biology</i> , 2010, 20, R1063-R1067.	1.8	50
777	Transdominant regulation of integrin function: Mechanisms of crosstalk. <i>Cellular Signalling</i> , 2010, 22, 578-583.	1.7	41
778	Extracellular matrix effect on RhoA signaling modulation in vascular smooth muscle cells. <i>Experimental Cell Research</i> , 2010, 316, 2833-2848.	1.2	27
779	The kinetics of forceâ€“induced cell reorganization depend on microtubules and actin. <i>Cytoskeleton</i> , 2010, 67, 241-250.	1.0	31
780	Osteopontin presentation affects cell adhesionâ€“Influence of underlying surface chemistry and nanopatterning of osteopontin. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 518-530.	2.1	14
781	Stiffness of the substrate influences the phenotype of embryonic chicken cardiac myocytes. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 1261-1269.	2.1	95
782	Integrinâ€“linked kinase regulates migration and proliferation of human intestinal cells under a fibronectinâ€“dependent mechanism. <i>Journal of Cellular Physiology</i> , 2010, 222, 387-400.	2.0	64
783	Cardiac fibroblast to myofibroblast differentiation in vivo and in vitro: Expression of focal adhesion components in neonatal and adult rat ventricular myofibroblasts. <i>Developmental Dynamics</i> , 2010, 239, 1573-1584.	0.8	226
784	Micropatterned Polymer Surfaces and Cellular Response of <i>Dictyostelium</i> . <i>Advanced Engineering Materials</i> , 2010, 12, 405-411.	1.6	1
785	Biomimetic Nanopatterns as Enabling Tools for Analysis and Control of Live Cells. <i>Advanced Materials</i> , 2010, 22, 4551-4566.	11.1	149
786	Contractility modulates cell adhesion strengthening through focal adhesion kinase and assembly of vinculinâ€“containing focal adhesions. <i>Journal of Cellular Physiology</i> , 2010, 223, 746-756.	2.0	88
787	Combining mechanical and optical approaches to dissect cellular mechanobiology. <i>Journal of Biomechanics</i> , 2010, 43, 45-54.	0.9	36
788	Stabilizing to disruptive transition of focal adhesion response to mechanical forces. <i>Journal of Biomechanics</i> , 2010, 43, 2524-2529.	0.9	36
789	Influence of crystallite size of nanophased hydroxyapatite on fibronectin and osteonectin adsorption and on MC3T3-E1 osteoblast adhesion and morphology. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 398-406.	5.0	100
790	Vitronectin activity on polymer substrates with controlled â€“OH density. <i>Polymer</i> , 2010, 51, 2329-2336.	1.8	17

#	ARTICLE	IF	CITATIONS
791	The effect of alternative neuronal differentiation pathways on PC12 cell adhesion and neurite alignment to nanogratings. <i>Biomaterials</i> , 2010, 31, 2565-2573.	5.7	64
792	Neuronal polarity selection by topography-induced focal adhesion control. <i>Biomaterials</i> , 2010, 31, 4682-4694.	5.7	107
793	Effect of nanoscale topography on fibronectin adsorption, focal adhesion size and matrix organisation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 77, 181-190.	2.5	108
794	Molecular assembly and biological activity of a recombinant fragment of fibronectin (FNIII7â€“10) on poly(ethyl acrylate). <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 78, 310-316.	2.5	16
795	Cellular behavior of human mesenchymal stem cells cultured on single-walled carbon nanotube film. <i>Carbon</i> , 2010, 48, 1095-1104.	5.4	94
796	Graphene substrates promote adherence of human osteoblasts and mesenchymal stromal cells. <i>Carbon</i> , 2010, 48, 4323-4329.	5.4	394
797	The role of the tissue microenvironment in the regulation of cancer cell motility and invasion. <i>Cell Communication and Signaling</i> , 2010, 8, 22.	2.7	154
798	Stimulated singleâ€“cell force spectroscopy to quantify cell adhesion receptor crosstalk. <i>Proteomics</i> , 2010, 10, 1455-1462.	1.3	35
799	Mechanotransduction: a major regulator of homeostasis and development. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2010, 2, 625-639.	6.6	50
800	Modulation of Microvascular Smooth Muscle Adhesion and Mechanotransduction by Integrin-Linked Kinase. <i>Microcirculation</i> , 2010, 17, 113-127.	1.0	10
801	Cell cycle and tissue of origin contribute to the migratory behaviour of human fetal and adult mesenchymal stromal cells. <i>British Journal of Haematology</i> , 2010, 148, 428-440.	1.2	30
802	Nanoscale architecture of integrin-based cell adhesions. <i>Nature</i> , 2010, 468, 580-584.	13.7	1,323
803	Cell-Protein-Material Interaction in Tissue Engineering. , 0, , .		6
804	KÃ¼nstliche Implantate fÃ¼r die Regeneration peripherer Nerven. <i>E-Neuroforum</i> , 2010, 16, 218-225.	0.2	1
805	Suppression of uPAR Retards Radiation-Induced Invasion and Migration Mediated by Integrin Î²1/FAK Signaling in Medulloblastoma. <i>PLoS ONE</i> , 2010, 5, e13006.	1.1	50
806	Bio-nanotechnology Approaches to Neural Tissue Engineering. , 2010, , .		3
807	The switchable integrin adhesome. <i>Journal of Cell Science</i> , 2010, 123, 1385-1388.	1.2	291
808	Multivalent Integrin-Specific Ligands Enhance Tissue Healing and Biomaterial Integration. <i>Science Translational Medicine</i> , 2010, 2, 45ra60.	5.8	150

#	ARTICLE	IF	CITATIONS
809	ATP Depletion-induced Actin Rearrangement Reduces Cell Adhesion via p38 MAPK-HSP27 Signaling in Renal Proximal Tubule Cells. <i>Cellular Physiology and Biochemistry</i> , 2010, 25, 501-510.	1.1	32
810	Autocrine fibronectin directs matrix assembly and crosstalk between cellâ€“matrix and cellâ€“cell adhesion in vascular endothelial cells. <i>Journal of Cell Science</i> , 2010, 123, 3989-3999.	1.2	64
811	ZF21 Protein Regulates Cell Adhesion and Motility. <i>Journal of Biological Chemistry</i> , 2010, 285, 21013-21022.	1.6	19
812	Extended Binding Site on Fibronectin for the Functional Upstream Domain of Protein F1 of <i>Streptococcus pyogenes</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 41087-41099.	1.6	69
813	Keratin 8/18 Modulation of Protein Kinase C-mediated Integrin-dependent Adhesion and Migration of Liver Epithelial Cells. <i>Molecular Biology of the Cell</i> , 2010, 21, 1698-1713.	0.9	65
814	Keeping the Vimentin Network under Control: Cellâ€“Matrix Adhesionâ€“associated Plectin 1f Affects Cell Shape and Polarity of Fibroblasts. <i>Molecular Biology of the Cell</i> , 2010, 21, 3362-3375.	0.9	107
815	Force-induced destabilization of focal adhesions at defined integrin spacings on nanostructured surfaces. <i>Physical Review E</i> , 2010, 81, 051914.	0.8	14
816	Matrix elasticity, cytoskeletal forces and physics of the nucleus: how deeply do cells â€“feelâ€™ outside and in?. <i>Journal of Cell Science</i> , 2010, 123, 297-308.	1.2	349
817	Nanoscale cues regulate the structure and function of macroscopic cardiac tissue constructs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 565-570.	3.3	541
818	Integrins stimulate E-cadherin-mediated intercellular adhesion by regulating Src-kinase activation and actomyosin contractility. <i>Journal of Cell Science</i> , 2010, 123, 712-722.	1.2	130
819	Adhesion patterns in early cell spreading. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 194106.	0.7	5
820	Protein Networks in Integrin-Mediated Adhesions. , 2010, , 139-151.		1
821	Extracellular-Signal-Related Kinase 1/2 Is Responsible for Inhibition of Osteogenesis in Three-Dimensional Cultured MC3T3-E1 Cells. <i>Tissue Engineering - Part A</i> , 2010, 16, 3485-3494.	1.6	8
822	Biomaterials for Tissue Engineered Scaffolds. , 2010, , .		1
823	iso-DGR Sequences Do Not Mediate Binding of Fibronectin N-terminal Modules to Adherent Fibronectin-null Fibroblasts. <i>Journal of Biological Chemistry</i> , 2010, 285, 8563-8571.	1.6	19
824	In Vivo Nano-imaging of Membrane Dynamics in Metastatic Tumor Cells Using Quantum Dots. <i>Journal of Biological Chemistry</i> , 2010, 285, 2750-2757.	1.6	84
825	Inorganic PVD and CVD Coatings in Medicine â€” A Review of Protein and Cell Adhesion on Coated Surfaces. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 925-961.	1.4	24
826	Protein expression profiling of lens epithelial cells from Prdx6-depleted mice and their vulnerability to UV radiation exposure. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C342-C354.	2.1	40



#	ARTICLE	IF	CITATIONS
827	Pathways of mechanical unfolding of FnIII10: Low force intermediates. Journal of Chemical Physics, 2010, 133, 065101.	1.2	14
828	Physicochemical Control of Adult Stem Cell Differentiation: Shedding Light on Potential Molecular Mechanisms. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-14.	3.0	44
829	Effects of mechanical stress on cell adhesion. Cell Adhesion and Migration, 2010, 4, 19-25.	1.1	18
830	Micropatterned Hydrogels for Stem Cell Culture. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2010, , 119-152.	0.7	3
831	Stem Cell Interaction with Topography. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2010, , 61-87.	0.7	1
832	Nanotechnology Usages for Cellular Adhesion and Traction Forces. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2010, , 177-200.	0.7	1
833	Assembly of Fibronectin Extracellular Matrix. Annual Review of Cell and Developmental Biology, 2010, 26, 397-419.	4.0	754
834	Long-Lived, High-Strength States of ICAM-1 Bonds to $\beta$ 2 Integrin, II: Lifetimes of LFA-1 Bonds Under Force in Leukocyte Signaling. Biophysical Journal, 2010, 98, 1467-1475.	0.2	30
835	Nanotopography/Mechanical Induction of Stem-Cell Differentiation. Methods in Cell Biology, 2010, 98, 241-294.	0.5	64
836	Subtle variations in polymer chemistry modulate substrate stiffness and fibronectin activity. Soft Matter, 2010, 6, 4748.	1.2	41
837	Surface-Initiated Assembly of Protein Nanofabrics. Nano Letters, 2010, 10, 2184-2191.	4.5	69
838	Molecular Understanding of Conformational Dynamics of a Fibronectin Module on Rutile (110) Surface. Langmuir, 2010, 26, 15972-15981.	1.6	29
839	Large Area Protein Patterning Reveals Nanoscale Control of Focal Adhesion Development. Nano Letters, 2010, 10, 686-694.	4.5	88
840	Polymeric Substrates with Tunable Elasticity and Nanoscopically Controlled Biomolecule Presentation. Langmuir, 2010, 26, 15472-15480.	1.6	75
841	SERS Study of Rotational Isomerization of Cysteamine Induced by Magnetic Pulling Force. Langmuir, 2010, 26, 4848-4853.	1.6	9
842	Periodic beaded-filament assembly of fibronectin on negatively charged surface. Journal of Structural Biology, 2010, 170, 50-59.	1.3	39
843	FAK mediates signal crosstalk between type II collagen and TGF-beta 1 cascades in chondrocytic cells. Matrix Biology, 2010, 29, 135-142.	1.5	15
844	Human melanoma cells expressing the $\alpha$ 3 integrin are partially protected from necrotic cell death induced by dynamic matrix detachment. Cancer Letters, 2010, 290, 174-181.	3.2	5

#	ARTICLE	IF	CITATIONS
845	Integrin Signaling Switches the Cytoskeletal and Exocytic Machinery that Drives Neuritogenesis. <i>Developmental Cell</i> , 2010, 18, 725-736.	3.1	152
846	Tyrosine phosphorylation of vinculin at position 1065 modifies focal adhesion dynamics and cell tractions. <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 560-564.	1.0	21
847	Emerging roles of fibronectin in thrombosis. <i>Thrombosis Research</i> , 2010, 125, 287-291.	0.8	53
848	Nlcam modulates midline convergence during anterior neural plate morphogenesis. <i>Developmental Biology</i> , 2010, 339, 14-25.	0.9	46
849	Nrk2b-mediated NAD <sup>+</sup> production regulates cell adhesion and is required for muscle morphogenesis in vivo. <i>Developmental Biology</i> , 2010, 344, 809-826.	0.9	61
850	Conditional knockout of fibronectin abrogates mouse mammary gland lobuloalveolar differentiation. <i>Developmental Biology</i> , 2010, 346, 11-24.	0.9	32
851	Vascular Basement Membrane Thickening in Diabetic Retinopathy. <i>Current Eye Research</i> , 2010, 35, 1045-1056.	0.7	109
852	Matrix mechanics and receptor-ligand interactions in cell adhesion. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 299-304.	1.5	43
853	Prestressed Nuclear Organization in Living Cells. <i>Methods in Cell Biology</i> , 2010, 98, 221-239.	0.5	13
855	Mechanosensitivity of the Heart. , 2010, , .		9
856	Model for how retrograde actin flow regulates adhesion traction stresses. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 194113.	0.7	46
857	Progesterone Is Essential for Maintenance and Growth of Uterine Leiomyoma. <i>Endocrinology</i> , 2010, 151, 2433-2442.	1.4	295
858	The Tumor Microenvironment. , 2010, , .		6
859	Macro- and microscale fluid flow systems for endothelial cell biology. <i>Lab on A Chip</i> , 2010, 10, 143-160.	3.1	184
860	Cell adhesion on nanopatterned fibronectin substrates. <i>Soft Matter</i> , 2010, 6, 5408.	1.2	28
861	Design principles for polymers as substratum for adherent cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 8789.	6.7	59
862	Ultra-rapid activation of TRPV4 ion channels by mechanical forces applied to cell surface $\beta$ 1 integrins. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 435.	0.6	222
863	Platelet retraction force measurements using flexible post force sensors. <i>Lab on A Chip</i> , 2010, 10, 991.	3.1	82

#	ARTICLE	IF	CITATIONS
864	Minireview: A Tiny Touch: Activation of Cell Signaling Pathways with Magnetic Nanoparticles. <i>Endocrinology</i> , 2010, 151, 451-457.	1.4	64
865	Changes in the internal organization of the cell by microstructured substrates. <i>Soft Matter</i> , 2010, 6, 582-590.	1.2	8
866	A biological breadboard platform for cell adhesion and detachment studies. <i>Lab on A Chip</i> , 2011, 11, 3555.	3.1	15
867	Control of initial endothelial spreading by topographic activation of focal adhesion kinase. <i>Soft Matter</i> , 2011, 7, 7313.	1.2	85
868	Control of Surface Chemistry, Substrate Stiffness, and Cell Function in a Novel Terpolymer Methacrylate Library. <i>Langmuir</i> , 2011, 27, 1891-1899.	1.6	46
869	Extracellular matrix and cell signalling: the dynamic cooperation of integrin, proteoglycan and growth factor receptor. <i>Journal of Endocrinology</i> , 2011, 209, 139-151.	1.2	985
870	Impact of Local versus Global Ligand Density on Cellular Adhesion. <i>Nano Letters</i> , 2011, 11, 1469-1476.	4.5	149
871	Nanolithographic Control of the Spatial Organization of Cellular Adhesion Receptors at the Single-Molecule Level. <i>Nano Letters</i> , 2011, 11, 1306-1312.	4.5	240
872	Direct Detection of Cellular Adaptation to Local Cyclic Stretching at the Single Cell Level by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2011, 100, 564-572.	0.2	32
873	Cross-Correlated Fluctuation Analysis Reveals Phosphorylation-Regulated Paxillin-FAK Complexes in Nascent Adhesions. <i>Biophysical Journal</i> , 2011, 100, 583-592.	0.2	74
874	Study of Cell-Matrix Adhesion Dynamics Using Surface Plasmon Resonance Imaging Ellipsometry. <i>Biophysical Journal</i> , 2011, 100, 1819-1828.	0.2	24
875	Regulation of Cell Adhesion Strength by Peripheral Focal Adhesion Distribution. <i>Biophysical Journal</i> , 2011, 101, 2903-2911.	0.2	60
876	New insights into the altered fibronectin matrix and extrasynaptic transmission in the aging brain. <i>Journal of Clinical Gerontology and Geriatrics</i> , 2011, 2, 35-41.	0.7	11
877	Peptide- and Protein-Modified Surfaces. , 2011, , 145-159.		1
878	Entropic attraction of adhesion bonds toward cell boundaries. <i>Physical Review E</i> , 2011, 84, 051907.	0.8	2
879	Whole-cell biochips for bio-sensing: integration of live cells and inanimate surfaces. <i>Critical Reviews in Biotechnology</i> , 2011, 31, 337-353.	5.1	45
880	Nanotopographic Control of Neuronal Polarity. <i>Nano Letters</i> , 2011, 11, 505-511.	4.5	125
881	Focal Complex Maturation and Bridging on 200 nm Vitronectin but Not Fibronectin Patches Reveal Different Mechanisms of Focal Adhesion Formation. <i>Nano Letters</i> , 2011, 11, 2264-2271.	4.5	58

#	ARTICLE	IF	CITATIONS
882	Role of superhydrophobicity in the biological activity of fibronectin at the cellâ€“material interface. <i>Soft Matter</i> , 2011, 7, 10803.	1.2	58
883	Actin cytoskeleton in myofibroblast differentiation: Ultrastructure defining form and driving function. <i>Translational Research</i> , 2011, 158, 181-196.	2.2	138
884	High-resolution atomic force microscopy and spectroscopy of native membrane proteins. <i>Reports on Progress in Physics</i> , 2011, 74, 086601.	8.1	118
885	Electrospun Fibers as Substrates for Peripheral Nerve Regeneration. <i>Advances in Polymer Science</i> , 2011, , 131-170.	0.4	8
886	Atomic Force Microscopy in Biomedical Research. <i>Methods in Molecular Biology</i> , 2011, , .	0.4	15
887	Biological Microelectromechanical Systems (BioMEMS) Devices. , 2011, , 257-276.		5
888	Microfluidic devices as tools for mimicking the in vivo environment. <i>New Journal of Chemistry</i> , 2011, 35, 979.	1.4	105
889	Fibrosis and progression of Autosomal Dominant Polycystic Kidney Disease (ADPKD). <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 1327-1336.	1.8	107
890	Measuring Cell Adhesion Forces: Theory and Principles. <i>Methods in Molecular Biology</i> , 2011, 736, 355-377.	0.4	20
891	Down-regulation of glutamine synthetase enhances migration of rat astrocytes after in vitro injury. <i>Neurochemistry International</i> , 2011, 58, 404-413.	1.9	25
892	Creation of Biofunctionalized Micropatterns on Poly(methyl methacrylate) by Single-Step Phase Separation Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4496-4503.	4.0	6
893	Regulation of integrins by conformation and traffic: it takes two to tango. <i>Molecular BioSystems</i> , 2011, 7, 2539.	2.9	8
894	Analyzing the Anatomy of Integrin Adhesions. <i>Science Signaling</i> , 2011, 4, jc3.	1.6	26
896	How do Mesenchymal Stem Cells Repair?. , 0, , .		12
897	Why Integrin as a Primary Target for Imaging and Therapy. <i>Theranostics</i> , 2011, 1, 30-47.	4.6	149
898	Bioartificial Stem Cell Niches: Engineering a Regenerative Microenvironment. , 2011, , 245-256.		2
899	HAMLET Binding to Î±-Actinin Facilitates Tumor Cell Detachment. <i>PLoS ONE</i> , 2011, 6, e17179.	1.1	27
900	Cochlin Induced TREK-1 Co-Expression and Annexin A2 Secretion: Role in Trabecular Meshwork Cell Elongation and Motility. <i>PLoS ONE</i> , 2011, 6, e23070.	1.1	28

#	ARTICLE	IF	CITATIONS
901	Nano-Stenciled RGD-Gold Patterns That Inhibit Focal Contact Maturation Induce Lamellipodia Formation in Fibroblasts. PLoS ONE, 2011, 6, e25459.	1.1	27
902	Substrate Adhesion Regulates Sealing Zone Architecture and Dynamics in Cultured Osteoclasts. PLoS ONE, 2011, 6, e28583.	1.1	41
903	Effect of microtubule-targeting drugs on cell-cell and cell-matrix junctions in tumor epithelial cells. Anti-Cancer Drugs, 2011, 22, 234-244.	0.7	1
904	Mechanical Determinants of Tissue Development. , 2011, , 463-477.		1
906	Nano-vibration effect on cell adhesion and its shape. Bio-Medical Materials and Engineering, 2011, 21, 149-158.	0.4	14
907	Cultivation with Untransfected Fibroblasts Stimulates Proliferation of a Single Gene-Modified Fibroblast Derived from a Claw Miniature Swine Foetus. Reproduction in Domestic Animals, 2011, 46, 911-916.	0.6	1
908	Desmoplastic tumour-associated stroma versus neural tissue in central nervous system metastasis: effects of different microenvironments on tumour growth. Histopathology, 2011, 59, 31-39.	1.6	8
909	The effect of lysophosphatidic acid and Rho-associated kinase patterning on adhesion of dental pulp cells. International Endodontic Journal, 2011, 44, 2-8.	2.3	13
910	Fibroblasts and myofibroblasts in renal fibrosis. International Journal of Experimental Pathology, 2011, 92, 158-167.	0.6	294
911	Ethanol Feeding Potentiates the Pro-Inflammatory Response of Kupffer Cells to Cellular Fibronectin. Alcoholism: Clinical and Experimental Research, 2011, 35, 717-725.	1.4	19
912	At the edge of translation - materials to program cells for directed differentiation. Oral Diseases, 2011, 17, 241-251.	1.5	15
913	Assaying stem cell mechanobiology on microfabricated elastomeric substrates with geometrically modulated rigidity. Nature Protocols, 2011, 6, 187-213.	5.5	236
914	SKAP2, a novel target of HSF4b, associates with NCK2/F-actin at membrane ruffles and regulates actin reorganization in lens cell. Journal of Cellular and Molecular Medicine, 2011, 15, 783-795.	1.6	30
915	Endothelial cell responses towards low-fouling surfaces bearing RGD in a three-dimensional environment. Experimental Cell Research, 2011, 317, 1994-2006.	1.2	12
916	Analysis of the signaling pathways regulating Src-dependent remodeling of the actin cytoskeleton. European Journal of Cell Biology, 2011, 90, 143-156.	1.6	25
917	Cell adhesion and detachment on gold surfaces modified with a thiol-functionalized RGD peptide. Biomaterials, 2011, 32, 7286-7296.	5.7	44
918	MMP-9 silencing regulates hTERT expression via $\beta$ 1 integrin-mediated FAK signaling and induces senescence in glioma xenograft cells. Cellular Signalling, 2011, 23, 2065-2075.	1.7	19
919	Seeding density matters: extensive intercellular contact masks the surface dependence of endothelial cell-biomaterial interactions. Journal of Materials Science: Materials in Medicine, 2011, 22, 389-396.	1.7	9

#	ARTICLE	IF	CITATIONS
920	Regulation of osteogenic and chondrogenic differentiation of mesenchymal stem cells in PEG-ECM hydrogels. <i>Cell and Tissue Research</i> , 2011, 344, 499-509.	1.5	107
921	Rac-dependent doubling of HeLa cell area and impairment of cell migration and cell cycle by compounds from <i>Iris germanica</i> . <i>Protoplasma</i> , 2011, 248, 785-797.	1.0	8
922	Computing Spatial Information from Fourier Coefficient Distributions. <i>Journal of Membrane Biology</i> , 2011, 241, 59-68.	1.0	5
923	The influence of topographic microstructures on the initial adhesion of L929 fibroblasts studied by single-cell force spectroscopy. <i>European Biophysics Journal</i> , 2011, 40, 317-327.	1.2	27
924	Role of material-driven fibronectin fibrillogenesis in cell differentiation. <i>Biomaterials</i> , 2011, 32, 2099-2105.	5.7	122
925	The Biomechanical Properties of 3d Extracellular Matrices and Embedded Cells Regulate the Invasiveness of Cancer Cells. <i>Cell Biochemistry and Biophysics</i> , 2011, 61, 217-236.	0.9	30
926	Engineering cell attachments to scaffolds in cartilage tissue engineering. <i>Jom</i> , 2011, 63, 74-82.	0.9	41
927	Plasma and cellular fibronectin: distinct and independent functions during tissue repair. <i>Fibrogenesis and Tissue Repair</i> , 2011, 4, 21.	3.4	436
928	Age-Dependent Changes in Microscale Stiffness and Mechanoresponses of Cells. <i>Small</i> , 2011, 7, 1480-1487.	5.2	45
929	Exploring the Formation of Focal Adhesions on Patterned Surfaces Using Super-Resolution Imaging. <i>Small</i> , 2011, 7, 2906-2913.	5.2	29
930	Dermal fibroblast behaviour on micropatterned substrates with different pattern geometries. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 402-409.	1.3	11
931	Involvement of $\beta 1$ -Integrin via PIP complex and FAK/paxillin in dexamethasone-induced human mesenchymal stem cells migration. <i>Journal of Cellular Physiology</i> , 2011, 226, 683-692.	2.0	24
932	Tiam1 is recruited to $\beta 1$ -Integrin complexes by $\beta 3$ - $\beta 1$ , where it mediates integrin-induced Rac1 activation and motility. <i>Journal of Cellular Physiology</i> , 2011, 226, 2965-2978.	2.0	35
933	The position and size of individual focal adhesions are determined by intracellular stress-dependent positive regulation. <i>Cytoskeleton</i> , 2011, 68, 639-651.	1.0	19
934	Controlled oxygen plasma treatment of single-walled carbon nanotube films improves osteoblastic cells attachment and enhances their proliferation. <i>Carbon</i> , 2011, 49, 2926-2934.	5.4	25
935	Cell adhesive and growth behavior on electrospun nanofibrous scaffolds by designed multifunctional composites. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 26-34.	2.5	40
936	Nanoscale topography reduces fibroblast growth, focal adhesion size and migration-related gene expression on platinum surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 85, 189-197.	2.5	60
937	The influence of substrate creep on mesenchymal stem cell behaviour and phenotype. <i>Biomaterials</i> , 2011, 32, 5979-5993.	5.7	344

#	ARTICLE	IF	CITATIONS
938	Functional fibrils derived from the peptide TTR1-cycloRGDfK that target cell adhesion and spreading. <i>Biomaterials</i> , 2011, 32, 6099-6110.	5.7	29
939	Perspectives on biological growth and remodeling. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 863-883.	2.3	371
940	Influence of substrate stiffness on cellâ€“substrate interfacial adhesion and spreading: A mechano-chemical coupling model. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 503-508.	5.0	29
941	Regulation of lysosomal secretion by cortactin drives fibronectin deposition and cell motility. <i>Bioarchitecture</i> , 2011, 1, 257-260.	1.5	12
942	"Panta rhei". <i>Bioarchitecture</i> , 2011, 1, 39-44.	1.5	24
943	Selective fibronectin adsorption against albumin and enhanced stem cell attachment on helium atmospheric pressure glow discharge treated titanium. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	12
944	Microfluidic devices for studying heterotypic cell-cell interactions and tissue specimen cultures under controlled microenvironments. <i>Biomicrofluidics</i> , 2011, 5, 013406.	1.2	117
945	Materials in Dental Implantology. , 2011, , 281-303.		0
946	Dentin Matrix Protein 1 (DMP1) Signals via Cell Surface Integrin. <i>Journal of Biological Chemistry</i> , 2011, 286, 29462-29469.	1.6	54
947	Effective free energy for pinned membranes. <i>Physical Review E</i> , 2011, 83, 050901.	0.8	7
948	Cytoskeleton in motion: the dynamics of keratin intermediate filaments in epithelia. <i>Journal of Cell Biology</i> , 2011, 194, 669-678.	2.3	169
949	Probing mechanical principles of focal contacts in cellâ€“matrix adhesion with a coupled stochasticâ€“elastic modelling framework. <i>Journal of the Royal Society Interface</i> , 2011, 8, 1217-1232.	1.5	85
950	Ezrin is required for efficient Rap1-induced cell spreading. <i>Journal of Cell Science</i> , 2011, 124, 1808-1818.	1.2	28
951	Association between $\beta$ 4 integrin cytoplasmic tail and non-muscle myosin IIA regulates cell migration. <i>Journal of Cell Science</i> , 2011, 124, 483-492.	1.2	21
952	A DIGITAL VOLUME CORRELATION TECHNIQUE FOR 3-D DEFORMATION MEASUREMENTS OF SOFT GELS. <i>International Journal of Applied Mechanics</i> , 2011, 03, 335-354.	1.3	41
953	Molecular Architecture and Function of Matrix Adhesions. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a005033-a005033.	2.3	441
954	Interdependency of cell adhesion, force generation and extracellular proteolysis in matrix remodeling. <i>Journal of Cell Science</i> , 2011, 124, 1857-1866.	1.2	62
955	Mechanical signaling through the cytoskeleton regulates cell proliferation by coordinated focal adhesion and Rho GTPase signaling. <i>Journal of Cell Science</i> , 2011, 124, 1195-1205.	1.2	423



#	ARTICLE	IF	CITATIONS
956	Biocompatibility of Different Poly(Lactide-Coglycolide) Polymers Implanted into the Subconjunctival Space in Rats. <i>Ophthalmic Research</i> , 2011, 46, 55-65.	1.0	3
957	Heparan sulfate proteoglycan syndecan-3 is a novel receptor for GDNF, neurturin, and artemin. <i>Journal of Cell Biology</i> , 2011, 192, 153-169.	2.3	164
958	Role of von Hippel-Lindau protein in fibroblast proliferation and fibrosis. <i>FASEB Journal</i> , 2011, 25, 3032-3044.	0.2	24
959	Cancer Cells Regulate Biomechanical Properties of Human Microvascular Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 40025-40037.	1.6	94
960	Designing Tunable Artificial Matrices for Stem Cell Culture. , 2011, , 717-728.		2
961	BRAFV600E and Microenvironment in Thyroid Cancer: A Functional Link to Drive Cancer Progression. <i>Cancer Research</i> , 2011, 71, 2417-2422.	0.4	81
962	Integrin $\alpha 5 \beta 1$ facilitates cancer cell invasion through enhanced contractile forces. <i>Journal of Cell Science</i> , 2011, 124, 369-383.	1.2	219
963	ZF21 Protein, a Regulator of the Disassembly of Focal Adhesions and Cancer Metastasis, Contains a Novel Noncanonical Pleckstrin Homology Domain. <i>Journal of Biological Chemistry</i> , 2011, 286, 31598-31609.	1.6	14
964	Abl-interactor-1 (Abi1) has a role in cardiovascular and placental development and is a binding partner of the $\alpha 4$ integrin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 149-154.	3.3	116
965	Contractile Forces Contribute to Increased Glycosylphosphatidylinositol-anchored Receptor CD24-facilitated Cancer Cell Invasion. <i>Journal of Biological Chemistry</i> , 2011, 286, 34858-34871.	1.6	65
966	Type XII collagen regulates osteoblast polarity and communication during bone formation. <i>Journal of Cell Biology</i> , 2011, 193, 1115-1130.	2.3	113
967	Mechanobiology of Platelets: Techniques to Study the Role of Fluid Flow and Platelet Retraction Forces at the Micro- and Nano-Scale. <i>International Journal of Molecular Sciences</i> , 2011, 12, 9009-9030.	1.8	28
969	Potential Agents against Plasma Leakage. <i>ISRN Pharmacology</i> , 2011, 2011, 1-7.	1.6	12
970	The Plasma Membrane Potential and the Organization of the Actin Cytoskeleton of Epithelial Cells. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-13.	1.0	26
971	Overview of Micro- and Nano-Technology Tools for Stem Cell Applications: Micropatterned and Microelectronic Devices. <i>Sensors</i> , 2012, 12, 15947-15982.	2.1	21
972	Differential regulation of myosin X movements by its cargos, DCC and neogenin. <i>Journal of Cell Science</i> , 2012, 125, 751-762.	1.2	15
973	Integrins and p53 pathways in glioblastoma resistance to temozolomide. <i>Frontiers in Oncology</i> , 2012, 2, 157.	1.3	30
974	Focal Adhesion Kinases in Adhesion Structures and Disease. <i>Journal of Signal Transduction</i> , 2012, 2012, 1-12.	2.0	24

#	ARTICLE	IF	CITATIONS
975	Turnover of Focal Adhesions and Cancer Cell Migration. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-10.	1.0	197
976	Focus on the physics of the cell membrane. <i>New Journal of Physics</i> , 2012, 14, 055021.	1.2	4
977	Quantitative mapping of averaged focal adhesion dynamics in migrating cells by shape normalization. <i>Journal of Cell Science</i> , 2012, 125, 155-165.	1.2	50
978	Contributions of talin-1 to glioma cell matrix tensional homeostasis. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1311-1317.	1.5	39
979	Crawling of a driven adherent membrane. <i>Journal of Chemical Physics</i> , 2012, 137, 144906.	1.2	4
980	Probing cellular traction forces with magnetic nanowires and microfabricated force sensor arrays. <i>Nanotechnology</i> , 2012, 23, 075101.	1.3	31
981	Paxillin controls directional cell motility in response to physical cues. <i>Cell Adhesion and Migration</i> , 2012, 6, 502-508.	1.1	17
982	Random pinning limits the size of membrane adhesion domains. <i>Physical Review E</i> , 2012, 86, 031923.	0.8	19
983	Coherent angular motion in the establishment of multicellular architecture of glandular tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1973-1978.	3.3	184
984	Vitronectin Induces Phosphorylation of Ezrin/Radixin/Moesin Actin-binding Proteins through Binding to Its Novel Neuronal Receptor Telencephalin. <i>Journal of Biological Chemistry</i> , 2012, 287, 39041-39049.	1.6	15
985	Activity-dependent retrograde laminin A signaling regulates synapse growth at <i>Drosophila</i> neuromuscular junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17699-17704.	3.3	40
986	Scanning probe-enabled nanocombinatorics define the relationship between fibronectin feature size and stem cell fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4377-4382.	3.3	92
987	Involvement of actin polymerization in podosome dynamics. <i>Journal of Cell Science</i> , 2012, 125, 1666-72.	1.2	70
988	Spatial-temporal reorganization of activated integrins. <i>Cell Adhesion and Migration</i> , 2012, 6, 280-284.	1.1	15
989	Focus on ADF/Cofilin: Beyond Actin Cytoskeletal Regulation. , 2012, 2012, 1-7.		2
990	Microenvironment-Centred Dynamics in Aggressive B-Cell Lymphomas. <i>Advances in Hematology</i> , 2012, 2012, 1-12.	0.6	15
991	The Role of MAPK in Drug-Induced Kidney Injury. <i>Journal of Signal Transduction</i> , 2012, 2012, 1-15.	2.0	45
992	Ligation of the Fibrin-binding Domain by $\beta^2$ -Strand Addition Is Sufficient for Expansion of Soluble Fibronectin. <i>Journal of Biological Chemistry</i> , 2012, 287, 13303-13312.	1.6	32

#	ARTICLE	IF	CITATIONS
993	Phactr4 regulates directional migration of enteric neural crest through PP1, integrin signaling, and cofilin activity. <i>Genes and Development</i> , 2012, 26, 69-81.	2.7	63
994	Neuritogenesis: the prion protein controls $\beta$ 1 integrin signaling activity. <i>FASEB Journal</i> , 2012, 26, 678-690.	0.2	90
995	Culture on fibrin matrices maintains the colony-forming capacity and osteoblastic differentiation of mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2012, 7, 045015.	1.7	18
996	Cytoskeletal Dynamics and Lung Fluid Balance. , 2012, 2, 449-478.		33
997	Neuronal cell growth on polymeric scaffolds studied by CARS microscopy. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
998	Mechanotransduction through fibronectin-integrin focal adhesion in microvascular smooth muscle cells: is calcium essential?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H1965-H1973.	1.5	22
999	Species-specific shells: Chitin synthases and cell mechanics in molluscs. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2012, 227, 723-738.	0.4	26
1000	Force-dependent cell signaling in stem cell differentiation. <i>Stem Cell Research and Therapy</i> , 2012, 3, 41.	2.4	130
1001	Mechanobiology of tumor invasion: Engineering meets oncology. <i>Critical Reviews in Oncology/Hematology</i> , 2012, 83, 170-183.	2.0	65
1002	Enhanced osteogenic differentiation with 3D electrospun nanofibrous scaffolds. <i>Nanomedicine</i> , 2012, 7, 1561-1575.	1.7	36
1003	Quantitative Analysis of the Combined Effect of Substrate Rigidity and Topographic Guidance on Cell Morphology. <i>IEEE Transactions on Nanobioscience</i> , 2012, 11, 28-36.	2.2	28
1004	Bioactive polymer scaffold for fabrication of vascularized engineering tissue. <i>Journal of Artificial Organs</i> , 2012, 15, 215-224.	0.4	30
1005	Material-Driven Fibronectin Fibrillogenesis. <i>ACS Symposium Series</i> , 2012, , 471-496.	0.5	5
1006	Porous Membrane Substrates Offer Better Niches to Enhance the Wnt Signaling and Promote Human Embryonic Stem Cell Growth and Differentiation. <i>Tissue Engineering - Part A</i> , 2012, 18, 1419-1430.	1.6	23
1007	Physical Model for Self-Organization of Actin Cytoskeleton and Adhesion Complexes at the Cell Front. <i>Biophysical Journal</i> , 2012, 102, 1746-1756.	0.2	52
1008	Cell Migration. , 2012, 2, 2369-2392.		324
1009	Progenitor Cells. <i>Methods in Molecular Biology</i> , 2012, , .	0.4	2
1010	3D Coupling of Fibronectin Fibril Arrangement with Topology of Ventral Plasma Membrane. <i>Cell Communication and Adhesion</i> , 2012, 19, 17-23.	1.0	3

#	ARTICLE	IF	CITATIONS
1011	Physically based principles of cell adhesion mechanosensitivity in tissues. Reports on Progress in Physics, 2012, 75, 116601.	8.1	123
1012	Topography-mediated apical guidance in epidermal wound healing. Soft Matter, 2012, 8, 6922.	1.2	30
1013	Exploring adipogenic differentiation of a single stem cell on poly(acrylic acid) and polystyrene micropatterns. Soft Matter, 2012, 8, 8429.	1.2	22
1014	Patterning of Two-Level Topographic Cues for Observation of Competitive Guidance of Cell Alignment. ACS Applied Materials & Interfaces, 2012, 4, 3888-3892.	4.0	20
1015	A plant virus substrate induces early upregulation of BMP2 for rapid bone formation. Integrative Biology (United Kingdom), 2012, 4, 651.	0.6	46
1016	Self-assembled monolayers of bifunctional periodic mesoporous organosilicas for cell adhesion and cellular patterning. Soft Matter, 2012, 8, 10845.	1.2	28
1017	Nanostructures of Designed Geometry and Functionality Enable Regulation of Cellular Signaling Processes. Biochemistry, 2012, 51, 5876-5893.	1.2	25
1018	Fine-Tuning the Degree of Stem Cell Polarization and Alignment on Ordered Arrays of High-Aspect-Ratio Nanopillars. ACS Nano, 2012, 6, 6222-6230.	7.3	164
1020	Combination of Integrin-Binding Peptide and Growth Factor Promotes Cell Adhesion on Electron-Beam-Fabricated Patterns. Journal of the American Chemical Society, 2012, 134, 247-255.	6.6	78
1021	A silicone-based stretchable micropost array membrane for monitoring live-cell subcellular cytoskeletal response. Lab on A Chip, 2012, 12, 731-740.	3.1	89
1022	Nanotopography Influences Adhesion, Spreading, and Self-Renewal of Human Embryonic Stem Cells. ACS Nano, 2012, 6, 4094-4103.	7.3	353
1023	Differential Contributions of Conformation Extension and Domain Unfolding to Properties of Fibronectin Nanotextiles. Nano Letters, 2012, 12, 5587-5592.	4.5	25
1024	Nanopatterning Reveals an ECM Area Threshold for Focal Adhesion Assembly and Force Transmission that is regulated by Integrin Activation and Cytoskeleton Tension. Journal of Cell Science, 2012, 125, 5110-23.	1.2	111
1025	Fibronectin and stem cell differentiation – lessons from chondrogenesis. Journal of Cell Science, 2012, 125, 3703-12.	1.2	161
1026	Mediating Effects of Aryl-Hydrocarbon Receptor and RhoA in Altering Brain Vascular Integrity. American Journal of Pathology, 2012, 181, 211-221.	1.9	24
1027	Evolution of cell-substrate interaction over time for cells cultivated on a 3-aminopropyltriethoxysilane ( <sup>3</sup> -APTES) modified silicon dioxide (SiO <sub>2</sub> ) surface. Applied Surface Science, 2012, 258, 8641-8648.	3.1	7
1028	Effects of decorin and biglycan on human airway smooth muscle cell adhesion. Matrix Biology, 2012, 31, 101-112.	1.5	11
1029	Osteoblast cell behavior on the new beta-type Ti-25Ta-25Nb alloy. Materials Science and Engineering C, 2012, 32, 1554-1563.	3.8	29

#	ARTICLE	IF	CITATIONS
1030	Focal adhesion kinase and endothelial cell apoptosis. <i>Microvascular Research</i> , 2012, 83, 56-63.	1.1	81
1031	Promotion of Osteogenic Cell Response Using Quasicovalent Immobilized Fibronectin on Titanium Surfaces: Introduction of a Novel Biomimetic Layer System. <i>Journal of Oral and Maxillofacial Surgery</i> , 2012, 70, 1827-1834.	0.5	19
1032	Type III and V collagens modulate the expression and assembly of EDA+ fibronectin in the extracellular matrix of defective Ehlers-Danlos syndrome fibroblasts. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1576-1587.	1.1	18
1033	MT1-MMP modulates the mechanosensitivity of osteocytes. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 824-829.	1.0	24
1034	Remodeling of chromatin under low intensity diffuse ultrasound. <i>International Journal of Biochemistry and Cell Biology</i> , 2012, 44, 1331-1336.	1.2	9
1035	Spatiotemporally controlled navigation of neurite outgrowth in sequential steps on the dynamically photo-patternable surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 99, 20-26.	2.5	22
1036	Collagen. , 2012, , 35-55.		30
1038	Molecular Characterization of Multivalent Bioconjugates by Size-Exclusion Chromatography with Multiangle Laser Light Scattering. <i>Bioconjugate Chemistry</i> , 2012, 23, 1794-1801.	1.8	20
1039	Directionality and bipolarity of olfactory ensheathing cells on electrospun nanofibers. <i>Nanomedicine</i> , 2012, 7, 1211-1224.	1.7	9
1040	Mechanical Interactions between Cells and Tissues. , 2012, , 201-209.		1
1041	Programming Cells with Synthetic Polymers. , 2012, , 485-495.		0
1042	7.7 Biophysics of Three-Dimensional Cell Motility. , 2012, , 88-103.		0
1043	Bioadhesives. , 2012, , 194-201.		0
1044	Collagen I confers gamma radiation resistance. <i>Applied Radiation and Isotopes</i> , 2012, 71, 71-74.	0.7	4
1045	Decoupling Substrate Stiffness, Spread Area, and Micropost Density: A Close Spatial Relationship between Traction Forces and Focal Adhesions. <i>Biophysical Journal</i> , 2012, 103, 640-648.	0.2	176
1046	Structure and Biology of the Cellular Environment: The Extracellular Matrix. <i>Fundamental Biomedical Technologies</i> , 2012, , 3-23.	0.2	2
1047	Exploring the Link Between Human Embryonic Stem Cell Organization and Fate Using Tension-Calibrated Extracellular Matrix Functionalized Polyacrylamide Gels. <i>Methods in Molecular Biology</i> , 2012, 916, 317-350.	0.4	51
1048	SiC In Vitro Biocompatibility. , 2012, , 119-152.		3

#	ARTICLE	IF	CITATIONS
1049	Effect of Fiber Diameter on the Spreading, Proliferation and Differentiation of Chondrocytes on Electrospun Chitosan Matrices. <i>Cells Tissues Organs</i> , 2012, 195, 207-221.	1.3	91
1050	F-Actin reassembly during focal adhesion impacts single cell mechanics and nanoscale membrane structure. <i>Science China Chemistry</i> , 2012, 55, 1922-1930.	4.2	7
1051	Nanogratings of fibronectin provide an effective biochemical cue for regulating focal adhesion and cellular structure. <i>Nano Research</i> , 2012, 5, 565-575.	5.8	5
1052	Nanoscale characterization of acid and thermally treated collagen fibrils. <i>Acta Biomaterialia</i> , 2012, 8, 3381-3391.	4.1	11
1053	Bacterial Electrical Conduction. , 2012, , 173-173.		0
1054	Controlled wettability, same chemistry: biological activity of plasma-polymerized coatings. <i>Soft Matter</i> , 2012, 8, 5575.	1.2	30
1055	Nanopatterning Biomolecules by Block Copolymer Self-Assembly. <i>ACS Macro Letters</i> , 2012, 1, 758-763.	2.3	33
1056	Bio-inspired materials for parsing matrix physicochemical control of cell migration: A Review. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 37-52.	0.6	37
1057	2.10 Quantitative Fluorescent Speckle Microscopy. , 2012, , 180-209.		0
1058	Integrin-Specific Mechanoresponses to Compression and Extension Probed by Cylindrical Flat-Ended AFM Tips in Lung Cells. <i>PLoS ONE</i> , 2012, 7, e32261.	1.1	31
1059	Paxillin and Hic-5 Interaction with Vinculin Is Differentially Regulated by Rac1 and RhoA. <i>PLoS ONE</i> , 2012, 7, e37990.	1.1	54
1060	Rap1 Can Bypass the FAK-Src-Paxillin Cascade to Induce Cell Spreading and Focal Adhesion Formation. <i>PLoS ONE</i> , 2012, 7, e50072.	1.1	15
1061	A Synthetic, Xeno-Free Peptide Surface for Expansion and Directed Differentiation of Human Induced Pluripotent Stem Cells. <i>PLoS ONE</i> , 2012, 7, e50880.	1.1	79
1062	Oscillatory fluid flow elicits changes in morphology, cytoskeleton and integrin-associated molecules in MLO-Y4 cells, but not in MC3T3-E1 cells. <i>Biological Research</i> , 2012, 45, 163-169.	1.5	17
1063	Proteomic analysis of $\beta 1$ integrin adhesion complexes reveals $\alpha$ -subunit-dependent protein recruitment. <i>Proteomics</i> , 2012, 12, 2107-2114.	1.3	52
1064	Characterization of Surface Properties and Cytocompatibility of Ion-etched Chitosan Films. <i>Langmuir</i> , 2012, 28, 7223-7232.	1.6	11
1065	Src modulates contractile vascular smooth muscle function via regulation of focal adhesions. <i>Journal of Cellular Physiology</i> , 2012, 227, 3585-3592.	2.0	46
1066	Focal adhesion kinase localizes to sites of cell-cell contact in vivo and increases apically in rat uterine luminal epithelium and the blastocyst at the time of implantation. <i>Journal of Morphology</i> , 2012, 273, 639-650.	0.6	25

#	ARTICLE	IF	CITATIONS
1067	Non-linear microscopy of smooth muscle cells in artificial extracellular matrices made of cellulose. <i>Journal of Biophotonics</i> , 2012, 5, 404-414.	1.1	16
1068	Osteoblasts responses to three-dimensional nanofibrous gelatin scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 3029-3041.	2.1	21
1069	EGF-Like Factors Induce Expansion of the Cumulus Cell-Oocyte Complexes by Activating Calpain-Mediated Cell Movement. <i>Endocrinology</i> , 2012, 153, 3949-3959.	1.4	42
1070	Cardiac decellularisation with long-term storage and repopulation with canine peripheral blood progenitor cells. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 1457-1464.	0.9	14
1071	The Outgrowth of Micrometastases Is Enabled by the Formation of Filopodium-like Protrusions. <i>Cancer Discovery</i> , 2012, 2, 706-721.	7.7	195
1072	Cellular Traction Force Reconstruction Based on a Self-adaptive Filtering Scheme. <i>Cellular and Molecular Bioengineering</i> , 2012, 5, 205-216.	1.0	19
1073	Dysregulation of the $\beta 3$ integrin-VEGFR2 complex in Hantaan virus-directed hyperpermeability upon treatment with VEGF. <i>Archives of Virology</i> , 2012, 157, 1051-1061.	0.9	16
1074	Advances in light-based imaging of three-dimensional cellular ultrastructure. <i>Current Opinion in Cell Biology</i> , 2012, 24, 125-133.	2.6	27
1075	Cell surface adhesion molecules and adhesion-initiated signaling: Understanding of anoikis resistance mechanisms and therapeutic opportunities. <i>Cellular Signalling</i> , 2012, 24, 393-401.	1.7	135
1076	Influence of substrate rigidity on primary nucleation of cell adhesion: A thermal fluctuation model. <i>Journal of Colloid and Interface Science</i> , 2012, 366, 200-208.	5.0	9
1077	Cyclic stretch induces reorientation of cells in a Src family kinase- and p130Cas-dependent manner. <i>European Journal of Cell Biology</i> , 2012, 91, 118-128.	1.6	25
1078	A 3-D organoid kidney culture model engineered for high-throughput nephrotoxicity assays. <i>Biomaterials</i> , 2012, 33, 4700-4711.	5.7	102
1079	Nanotopography as modulator of human mesenchymal stem cell function. <i>Biomaterials</i> , 2012, 33, 4998-5003.	5.7	133
1080	Regulation of the fate of human mesenchymal stem cells by mechanical and stereo-topographical cues provided by silicon nanowires. <i>Biomaterials</i> , 2012, 33, 5013-5022.	5.7	95
1081	The Formation and Stability of $\text{DC}^{\text{SIGN}}$ Microdomains Require its Extracellular Moiety. <i>Traffic</i> , 2012, 13, 715-726.	1.3	21
1082	Cell adhesion and focal contact formation on linear RGD molecular gradients: study of non-linear concentration dependence effects. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 432-439.	1.7	39
1083	Integrins as receptor targets for neurological disorders. , 2012, 134, 68-81.		149
1084	A critical evaluation of in vitro cell culture models for high-throughput drug screening and toxicity. , 2012, 134, 82-106.		327



#	ARTICLE	IF	CITATIONS
1085	Deciphering actin cytoskeletal function in the contractile vascular smooth muscle cell. <i>Journal of Physiology</i> , 2012, 590, 4145-4154.	1.3	89
1086	Endothelial paxillin and focal adhesion kinase (FAK) play a critical role in neutrophil transmigration. <i>European Journal of Immunology</i> , 2012, 42, 436-446.	1.6	31
1087	Regulating Cellular Behavior on Few-Layer Reduced Graphene Oxide Films with Well-Controlled Reduction States. <i>Advanced Functional Materials</i> , 2012, 22, 751-759.	7.8	189
1088	Model Membrane Platforms for Biomedicine: Case Study on Antiviral Drug Development. <i>Biointerphases</i> , 2012, 7, 18.	0.6	39
1089	Regulation of Integrin Adhesions by Varying the Density of Substrate-Bound Epidermal Growth Factor. <i>Biointerphases</i> , 2012, 7, 23.	0.6	14
1090	Effect of topological cues on material-driven fibronectin fibrillogenesis and cell differentiation. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 195-204.	1.7	30
1091	Fibronectin in tissue regeneration: timely disassembly of the scaffold is necessary to complete the build. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 4243-4253.	2.4	80
1092	Extracellular Matrix in Development. <i>Biology of Extracellular Matrix</i> , 2013, , .	0.3	11
1093	Vinculin Regulates the Recruitment and Release of Core Focal Adhesion Proteins in a Force-Dependent Manner. <i>Current Biology</i> , 2013, 23, 271-281.	1.8	310
1094	Phagocytized Beads Reduce the $\alpha 5 \beta 1$ Integrin Facilitated Invasiveness of Cancer Cells by Regulating Cellular Stiffness. <i>Cell Biochemistry and Biophysics</i> , 2013, 66, 599-622.	0.9	18
1095	Materiomics: Multiscale Mechanics of Biological Materials and Structures. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2013, , .	0.3	14
1096	Micromechanical Design Criteria for Tissue Engineering Biomaterials. , 2013, , 1165-1178.		1
1097	Activation of Extracellular Transglutaminase 2 by Mechanical Force in the Arterial Wall. <i>Journal of Vascular Research</i> , 2013, 50, 383-395.	0.6	31
1098	The roles of integrin $\beta 1$ in phenotypic maintenance and dedifferentiation in chondroid cells differentiated from human adipose-derived stem cells. <i>Nanoscale Research Letters</i> , 2013, 8, 136.	3.1	7
1099	The effects of non-thermal atmospheric pressure plasma jet on attachment of osteoblast. <i>Current Applied Physics</i> , 2013, 13, S42-S47.	1.1	19
1100	Integrin-Matrix Clusters Form Podosome-like Adhesions in the Absence of Traction Forces. <i>Cell Reports</i> , 2013, 5, 1456-1468.	2.9	122
1101	Label-free detection of cell-contractile activity with lipid nanotubes. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 107-111.	0.6	7
1102	Expression of cell adhesion and differentiation related genes in MC3T3 osteoblasts plated on titanium alloys: role of surface properties. <i>Materials Science and Engineering C</i> , 2013, 33, 1573-1582.	3.8	40

#	ARTICLE	IF	CITATIONS
1103	Cell shape-dependent early responses of fibroblasts to cyclic strain. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 3415-3425.	1.9	8
1104	Chitosan scaffolds containing chicken feather keratin nanoparticles for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 481-486.	3.6	105
1105	SLGISWD Sequence in the 10FNIII Domain Initiates Fibronectin Fibrillogenesis. <i>Journal of Biological Chemistry</i> , 2013, 288, 21329-21340.	1.6	24
1106	An Integrin-Linked Machinery of Cytoskeletal Regulation that Enables Experimental Tumor Initiation and Metastatic Colonization. <i>Cancer Cell</i> , 2013, 24, 481-498.	7.7	174
1107	Microenvironment and tumor cell plasticity: An easy way out. <i>Cancer Letters</i> , 2013, 341, 80-96.	3.2	214
1108	Micro-nanopatterning as tool to study the role of physicochemical properties on cell-surface interactions. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3019-3032.	2.1	49
1109	Probing the mechanosensitivity in cell adhesion and migration: Experiments and modeling. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2013, 29, 469-484.	1.5	5
1110	Substrate curvature sensing through Myosin IIa upregulates early osteogenesis. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 1407.	0.6	45
1111	Change of laminin density stimulates axon branching via growth cone myosin II-mediated adhesion. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 1244-1252.	0.6	15
1112	Fibroblasts remodeling of type IV collagen at a biomaterials interface. <i>Biomaterials Science</i> , 2013, 1, 494.	2.6	18
1113	Cell adhesion and mechanical stimulation in the regulation of mesenchymal stem cell differentiation. <i>Journal of Cellular and Molecular Medicine</i> , 2013, 17, 823-832.	1.6	187
1114	Paeoniflorin Attenuates Lipopolysaccharide-Induced Permeability of Endothelial Cells: Involvements of F-Actin Expression and Phosphorylations of PI3K/Akt and PKC. <i>Inflammation</i> , 2013, 36, 216-225.	1.7	36
1115	Integrin bidirectional signaling across the plasma membrane. <i>Journal of Cellular Physiology</i> , 2013, 228, 306-312.	2.0	102
1116	Mechanosensation and transduction in osteocytes. <i>Bone</i> , 2013, 54, 182-190.	1.4	390
1117	Syndecan-4 Phosphorylation Is a Control Point for Integrin Recycling. <i>Developmental Cell</i> , 2013, 24, 472-485.	3.1	111
1118	Moesin as a Key Cytoskeleton Regulator in Corneal Fibrosis. <i>Ocular Surface</i> , 2013, 11, 119-132.	2.2	3
1119	Effect of 3D microgroove surface topography on plasma and cellular fibronectin of human gingival fibroblasts. <i>Journal of Dentistry</i> , 2013, 41, 1109-1121.	1.7	20
1120	The influence of biomimetic topographical features and the extracellular matrix peptide RGD on human corneal epithelial contact guidance. <i>Acta Biomaterialia</i> , 2013, 9, 5040-5051.	4.1	28

#	ARTICLE	IF	CITATIONS
1121	The effect of electrically charged polyion complex nanoparticle-coated surfaces on adipose-derived stromal progenitor cell behaviour. <i>Biomaterials</i> , 2013, 34, 9096-9102.	5.7	16
1122	Fibroblast adhesion and activation onto micro-machined titanium surfaces. <i>Clinical Oral Implants Research</i> , 2013, 24, 770-780.	1.9	49
1123	The Yin-Yang of Rigidity Sensing: How Forces and Mechanical Properties Regulate the Cellular Response to Materials. <i>Annual Review of Materials Research</i> , 2013, 43, 589-618.	4.3	106
1124	An Autologous Platelet-Rich Plasma Stimulates Periodontal Ligament Regeneration. <i>Journal of Periodontology</i> , 2013, 84, 1556-1566.	1.7	27
1125	Big Signals from Small Particles: Regulation of Cell Signaling Pathways by Nanoparticles. <i>Chemical Reviews</i> , 2013, 113, 3391-3406.	23.0	146
1126	Physical break-down of the classical view on cancer cell invasion and metastasis. <i>European Journal of Cell Biology</i> , 2013, 92, 89-104.	1.6	35
1127	The modulation of endothelial cell morphology, function, and survival using anisotropic nanofibrillar collagen scaffolds. <i>Biomaterials</i> , 2013, 34, 4038-4047.	5.7	82
1128	Designing Tunable Artificial Matrices for Stem Cell Culture. , 2013, , 927-935.		0
1129	Tunable Substrates Unveil Chemical Complementations of a Genetic Cell Migration Defect. <i>Advanced Healthcare Materials</i> , 2013, 2, 1162-1169.	3.9	23
1130	Advances in Experimental Cell Biology and Cell-Material Interactions. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2013, , 87-105.	0.3	0
1131	Ric-8A, a guanine nucleotide exchange factor for heterotrimeric G proteins, is critical for cranial neural crest cell migration. <i>Developmental Biology</i> , 2013, 378, 74-82.	0.9	15
1132	Direct Adhesion of Endothelial Cells to Bioinspired Poly(dopamine) Coating Through Endogenous Fibronectin and Integrin $\alpha_5\beta_1$ . <i>Macromolecular Bioscience</i> , 2013, 13, 483-493.	2.1	67
1133	Electrosprayed Hydroxyapatite on Polymer Nanofibers to Differentiate Mesenchymal Stem Cells to Osteogenesis. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 170-184.	1.9	35
1134	Using Functional Nanomaterials to Target and Regulate the Tumor Microenvironment: Diagnostic and Therapeutic Applications. <i>Advanced Materials</i> , 2013, 25, 3508-3525.	11.1	154
1135	The biological activities of protein/oleic acid complexes reside in the fatty acid. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1125-1143.	1.1	77
1136	Building Fluorescent DNA Nanodevices on Target Living Cell Surfaces. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5490-5496.	7.2	133
1137	Cell-ECM Interactions and the Regulation of Epithelial Branching Morphogenesis. <i>Biology of Extracellular Matrix</i> , 2013, , 75-104.	0.3	1
1138	Engineered ECM Microenvironments and Their Regulation of Stem Cells. <i>Biology of Extracellular Matrix</i> , 2013, , 133-160.	0.3	2

#	ARTICLE	IF	CITATIONS
1139	Non-monotonic cell differentiation pattern on extreme wettability gradients. <i>Biomaterials Science</i> , 2013, 1, 202-212.	2.6	25
1140	Rho-kinase mediated cytoskeletal stiffness in skinned smooth muscle. <i>Journal of Applied Physiology</i> , 2013, 115, 1540-1552.	1.2	14
1141	Dynamic Phosphorylation of Tyrosine 665 in Pseudopodium-enriched Atypical Kinase 1 (PEAK1) Is Essential for the Regulation of Cell Migration and Focal Adhesion Turnover. <i>Journal of Biological Chemistry</i> , 2013, 288, 123-131.	1.6	35
1142	Cell Mechanosensitivity: Mechanical Properties and Interaction with Gravitational Field. <i>BioMed Research International</i> , 2013, 2013, 1-17.	0.9	32
1143	Delivery of EPC embedded in HA-hydrogels for treatment of acute kidney injury. <i>Biomatter</i> , 2013, 3, e23284.	2.6	13
1144	Novel Small Leucine-Rich Repeat Protein Podocan Is a Negative Regulator of Migration and Proliferation of Smooth Muscle Cells, Modulates Neointima Formation, and Is Expressed in Human Atheroma. <i>Circulation</i> , 2013, 128, 2351-2363.	1.6	29
1145	Structural Basis for Biofilm Formation via the <i>Vibrio cholerae</i> Matrix Protein RbmA. <i>Journal of Bacteriology</i> , 2013, 195, 3277-3286.	1.0	84
1146	Engineered Micromechanical Cues Affecting Human Pluripotent Stem Cell Regulations and Fate. <i>Journal of the Association for Laboratory Automation</i> , 2013, 18, 482-493.	2.8	13
1147	The Regulation of Cellular Adhesion Geometry on Apoptosis of Mesenchymal Stem Cell. <i>Applied Mechanics and Materials</i> , 2013, 378, 235-238.	0.2	1
1148	Update of the 1972 Singer-Nicolson Fluid-Mosaic Model of Membrane Structure. <i>Discoveries</i> , 2013, 1, e3.	1.5	19
1149	Integrin Signaling as a Cancer Drug Target. , 2013, 2013, 1-14.		32
1150	Engineering a Biocompatible Scaffold with Either Micrometre or Nanometre Scale Surface Topography for Promoting Protein Adsorption and Cellular Response. <i>International Journal of Biomaterials</i> , 2013, 2013, 1-16.	1.1	68
1151	A large mobility of hydrophilic molecules at the outmost layer controls the protein adsorption and adhering behavior with the actin fiber orientation of human umbilical vein endothelial cells (HUVEC). <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 1320-1332.	1.9	10
1152	Nanog suppresses cell migration by downregulating thymosin $\beta$ 4 and Rnd3. <i>Journal of Molecular Cell Biology</i> , 2013, 5, 239-249.	1.5	15
1153	Uniaxial cell stretching device for live-cell imaging of mechanosensitive cellular functions. <i>Review of Scientific Instruments</i> , 2013, 84, 114304.	0.6	58
1154	In-vitro analysis of rhBMP-2 effects in human osteogenic cells. <i>Canadian Journal of Physiology and Pharmacology</i> , 2013, 91, 929-934.	0.7	0
1155	Mesenchymal stem cells from patients to assay bone graft substitutes. <i>Journal of Cellular Physiology</i> , 2013, 228, 1229-1237.	2.0	33
1156	Barrier Enhancing Signals in Pulmonary Edema. , 2013, 3, 429-484.		43

#	ARTICLE	IF	CITATIONS
1157	Reconstruction of an In Vitro Niche for the Transition from Intervertebral Disc Development to Nucleus Pulposus Regeneration. <i>Stem Cells and Development</i> , 2013, 22, 1162-1176.	1.1	18
1158	AXIAL-SYMMETRIC MODELING AND KINEMATIC ANALYSIS OF SPREADING OF SPARSELY CULTURED FIBROBLASTS. <i>Journal of Mechanics in Medicine and Biology</i> , 2013, 13, 1350062.	0.3	0
1159	Tumor-Secreted LOXL2 Activates Fibroblasts through FAK Signaling. <i>Molecular Cancer Research</i> , 2013, 11, 1425-1436.	1.5	90
1160	Ras-oncogenic <i>Drosophila</i> hindgut but not midgut cells use an inflammation-like program to disseminate to distant sites. <i>Gut Microbes</i> , 2013, 4, 54-59.	4.3	20
1161	Polyethylene terephthalate membrane grafted with peptidomimetics: endothelial cell compatibility and retention under shear stress. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013, 24, 269-286.	1.9	16
1162	Pectins as Future Biomaterials. , 2013, , 99-121.		0
1164	The Evolution of Three-Dimensional Cell Cultures Towards Unimpeded Regenerative Medicine and Tissue Engineering. , 0, , .		5
1165	Going 3D â€“ Cell Culture Approaches for Stem Cell Research and Therapy. <i>Current Tissue Engineering</i> , 2013, 2, 8-19.	0.2	7
1166	Fibrotic Remodeling of the Extracellular Matrix through a Novel (Engineered, Dual-Function) Antibody Reactive to a Cryptic Epitope on the N-Terminal 30 kDa Fragment of Fibronectin. <i>PLoS ONE</i> , 2013, 8, e69343.	1.1	17
1167	Deciphering the Combinatorial Roles of Geometric, Mechanical, and Adhesion Cues in Regulation of Cell Spreading. <i>PLoS ONE</i> , 2013, 8, e81113.	1.1	12
1168	Stem Cells in Tissue Engineering. , 2013, , .		4
1169	Focal Adhesions and Related Integrin Contacts. , 2013, , 318-323.		4
1170	Cellular prion protein is required for neuritogenesis: fine-tuning of multiple signaling pathways involved in focal adhesions and actin cytoskeleton dynamics. <i>Cell Health and Cytoskeleton</i> , 0, , 1.	0.7	1
1171	Direct role of interrod spacing in mediating cell adhesion on Sr-HA nanorod-patterned coatings. <i>International Journal of Nanomedicine</i> , 2014, 9, 1243.	3.3	40
1172	Molecular Docking Characterization of a Four-Domain Segment of Human Fibronectin Encompassing the RGD Loop with Hydroxyapatite. <i>Molecules</i> , 2014, 19, 149-158.	1.7	6
1173	Effects of Targeted Anticancer Medicines on Post-Cell Removal Surface Morphology of Cancer Cells Cultivated on 3-Aminopropyltriethoxysilane Surface. , 2014, S, .		0
1175	The Cellular Mastermind(?)â€”Mechanotransduction and the Nucleus. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 126, 157-203.	0.9	30
1176	Investigation of sizeâ€“dependent cell adhesion on nanostructured interfaces. <i>Journal of Nanobiotechnology</i> , 2014, 12, 54.	4.2	56

#	ARTICLE	IF	CITATIONS
1177	Focal Adhesions Function as a Mechanosensor. Progress in Molecular Biology and Translational Science, 2014, 126, 55-73.	0.9	37
1178	Myosin Light Chain Kinase (MLCK) Regulates Cell Migration in a Myosin Regulatory Light Chain Phosphorylation-independent Mechanism. Journal of Biological Chemistry, 2014, 289, 28478-28488.	1.6	53
1179	Mechanisms of endothelial cell migration. Cellular and Molecular Life Sciences, 2014, 71, 4131-4148.	2.4	127
1180	Human embryonic stem cells and microenvironment. Journal of Clinical and Experimental Investigations, 2014, 5, .	0.1	1
1181	Cytoskeleton Modifications and Autophagy Induction in TCam-2 Seminoma Cells Exposed to Simulated Microgravity. BioMed Research International, 2014, 2014, 1-14.	0.9	21
1182	Adhesion and Proliferation of Human Periodontal Ligament Cells on Poly(2-methoxyethyl acrylate). BioMed Research International, 2014, 2014, 1-14.	0.9	18
1183	Emerging microengineered tools for functional analysis and phenotyping of blood cells. Trends in Biotechnology, 2014, 32, 586-594.	4.9	18
1184	The importance of the smooth muscle cytoskeleton to preterm labour. Experimental Physiology, 2014, 99, 525-529.	0.9	12
1185	Mechanobiology, Tissue Development and Organ Engineering. , 2014, , 309-322.		3
1186	A dual role for integrin-linked kinase and $\beta$ 1-integrin in modulating cardiac aging. Aging Cell, 2014, 13, 431-440.	3.0	49
1187	The Contribution of Vascular Smooth Muscle to Aortic Stiffness Across Length Scales. Microcirculation, 2014, 21, 201-207.	1.0	24
1188	Biophysical regulation of hematopoietic stem cells. Biomaterials Science, 2014, 2, 1548-1561.	2.6	37
1189	Multiscale Modeling of Cell Shape from the Actin Cytoskeleton. Progress in Molecular Biology and Translational Science, 2014, 123, 143-167.	0.9	13
1190	Mechanical Cues Direct Focal Adhesion Dynamics. Progress in Molecular Biology and Translational Science, 2014, 126, 103-134.	0.9	19
1191	Micropatterning of cell aggregate in three dimension for in vivo mimicking cell culture. , 2014, , 223-241.		4
1192	Plasticity of tumor cell migration: acquisition of new properties or return to the past?. Biochemistry (Moscow), 2014, 79, 947-963.	0.7	15
1193	Conducting polymer thin films as substrates for cell cultures. Materials Research Society Symposia Proceedings, 2014, 1624, 1.	0.1	0
1194	The membrane scaffold CD82 regulates cell adhesion by altering $\beta$ 4 integrin stability and molecular density. Molecular Biology of the Cell, 2014, 25, 1560-1573.	0.9	57

#	ARTICLE	IF	CITATIONS
1195	Cell-matrix and cell-cell interactions of human gingival fibroblasts on three-dimensional nanofibrous gelatin scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 862-873.	1.3	26
1196	Identification of an Actin Binding Surface on Vinculin that Mediates Mechanical Cell and Focal Adhesion Properties. <i>Structure</i> , 2014, 22, 697-706.	1.6	49
1197	Modulated surface of single-layer graphene controls cell behavior. <i>Carbon</i> , 2014, 72, 207-214.	5.4	10
1198	Inhibition of fibroblast adhesion by covalently immobilized protein repellent polymer coatings studied by single cell force spectroscopy. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 117-127.	2.1	19
1199	Cytoskeletal disease: a role in the etiology of adult periodontitis. <i>Oral Diseases</i> , 2014, 20, 10-16.	1.5	10
1200	Large-scale dendrimer-based uneven nanopatterns for the study of local arginine-glycine-aspartic acid (RGD) density effects on cell adhesion. <i>Nano Research</i> , 2014, 7, 399-409.	5.8	27
1201	GAP-independent functions of DLC1 in metastasis. <i>Cancer and Metastasis Reviews</i> , 2014, 33, 87-100.	2.7	32
1202	The integrin adhesome: from genes and proteins to human disease. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 273-288.	16.1	526
1203	Microtubules Mechanically Regulate Cell Adhesion Strengthening Via Cell Shape. <i>Cellular and Molecular Bioengineering</i> , 2014, 7, 136-144.	1.0	4
1204	CAS directly interacts with vinculin to control mechanosensing and focal adhesion dynamics. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 727-744.	2.4	55
1205	The effect of non-growth factors on chondrogenic differentiation of mesenchymal stem cells. <i>Cell and Tissue Banking</i> , 2014, 15, 319-327.	0.5	9
1206	Critical analysis of 3-D organoid in vitro cell culture models for high-throughput drug candidate toxicity assessments. <i>Advanced Drug Delivery Reviews</i> , 2014, 69-70, 1-18.	6.6	156
1207	Fibrosis is a lethal component of systemic sclerosis. <i>Nature Reviews Rheumatology</i> , 2014, 10, 390-402.	3.5	251
1208	The Fluid Mosaic Model of Membrane Structure: Still relevant to understanding the structure, function and dynamics of biological membranes after more than 40 years. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1451-1466.	1.4	513
1209	Protein conformation as a regulator of cell-matrix adhesion. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6342-6357.	1.3	37
1210	A Material-Based Platform to Modulate Fibronectin Activity and Focal Adhesion Assembly. <i>BioResearch Open Access</i> , 2014, 3, 286-296.	2.6	35
1211	Kindlin-2 Tyrosine Phosphorylation and Interaction with Src Serve as a Regulatable Switch in the Integrin Outside-in Signaling Circuit. <i>Journal of Biological Chemistry</i> , 2014, 289, 31001-31013.	1.6	33
1212	Extracellular Matrix-Mediated Differentiation of Human Embryonic Stem Cells: Differentiation to Insulin-Secreting Beta Cells. <i>Tissue Engineering - Part A</i> , 2014, 20, 424-433.	1.6	72



#	ARTICLE	IF	CITATIONS
1213	Reprogramming cellular phenotype by soft collagen gels. <i>Soft Matter</i> , 2014, 10, 8829-8837.	1.2	32
1214	Protein Kinase C, Focal Adhesions and the Regulation of Cell Migration. <i>Journal of Histochemistry and Cytochemistry</i> , 2014, 62, 172-184.	1.3	63
1215	Hydrogels to model 3D in vitro microenvironment of tumor vascularization. <i>Advanced Drug Delivery Reviews</i> , 2014, 79-80, 19-29.	6.6	125
1216	Cell immobilization on polymer by air atmospheric pressure plasma jet treatment. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 086202.	0.8	15
1217	Measurement of cell adhesion force by vertical forcible detachment using an arrowhead nanoneedle and atomic force microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2014, 451, 107-111.	1.0	16
1218	Engineered Lysozyme Amyloid Fibril Networks Support Cellular Growth and Spreading. <i>Biomacromolecules</i> , 2014, 15, 599-608.	2.6	97
1219	Microgel Microenvironment Primes Adipose-Derived Stem Cells Towards an NP Cells-Like Phenotype. <i>Advanced Healthcare Materials</i> , 2014, 3, 2012-2022.	3.9	41
1220	Molecular Mechanisms Underlying the Force-Dependent Regulation of Actin-to-ECM Linkage at the Focal Adhesions. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 126, 135-154.	0.9	41
1221	Shrink Wrapping Cells in a Defined Extracellular Matrix to Modulate the Chemo-Mechanical Microenvironment. <i>Cellular and Molecular Bioengineering</i> , 2014, 7, 355-368.	1.0	19
1222	Mechanotransduction in the Endothelium: Role of Membrane Proteins and Reactive Oxygen Species in Sensing, Transduction, and Transmission of the Signal with Altered Blood Flow. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 899-913.	2.5	72
1223	Inhibition of cell migration and invasion mediated by the TAT-RasGAP317-326 peptide requires the DLC1 tumor suppressor. <i>Oncogene</i> , 2014, 33, 5163-5172.	2.6	25
1224	Structural and mechanical functions of integrins. <i>Biophysical Reviews</i> , 2014, 6, 203-213.	1.5	52
1225	A discrete approach for modeling cell-matrix adhesions. <i>Computational Particle Mechanics</i> , 2014, 1, 117-130.	1.5	22
1226	Nanoimprinting of topographical and 3D cell culture scaffolds. <i>Nanomedicine</i> , 2014, 9, 349-366.	1.7	20
1227	Displacement of p130Cas from focal adhesions links actomyosin contraction to cell migration. <i>Journal of Cell Science</i> , 2014, 127, 3440-50.	1.2	22
1228	Phosphorylation at Y1065 in Vinculin Mediates Actin Bundling, Cell Spreading, and Mechanical Responses to Force. <i>Biochemistry</i> , 2014, 53, 5526-5536.	1.2	19
1229	Matrix-driven formation of mesenchymal stem cell-extracellular matrix microtissues on soft alginate hydrogels. <i>Acta Biomaterialia</i> , 2014, 10, 3197-3208.	4.1	85
1230	Force-dependent vinculin binding to talin in live cells: a crucial step in anchoring the actin cytoskeleton to focal adhesions. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 306, C607-C620.	2.1	77

#	ARTICLE	IF	CITATIONS
1231	Fragment-Based Identification of an Inducible Binding Site on Cell Surface Receptor CD44 for the Design of Proteinâ€“Carbohydrate Interaction Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 2714-2725.	2.9	46
1232	Reorganization of endothelial cells cytoskeleton during formation of functional monolayer in vitro. <i>Cell and Tissue Biology</i> , 2014, 8, 138-151.	0.2	8
1233	NBT-II cell locomotion is modulated by restricting the size of focal contacts and is improved through EGF and ROCK signaling. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 51, 131-141.	1.2	1
1234	Inhibitory role of polyunsaturated fatty acids on lysophosphatidic acid-induced cancer cell migration and adhesion. <i>FEBS Letters</i> , 2014, 588, 2971-2977.	1.3	11
1235	ECM Protein Nanofibers and Nanostructures Engineered Using Surface-initiated Assembly. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	10
1236	Kinetic behaviour of the cells touching substrate: the interfacial stiffness guides cell spreading. <i>Scientific Reports</i> , 2014, 4, 3910.	1.6	75
1237	Regulation of the cytokinesis cleavage furrow by PKCÎ¼. <i>Biochemical Society Transactions</i> , 2014, 42, 1534-1537.	1.6	5
1239	Mechanotransduction in intervertebral discs. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 2351-2360.	1.6	9
1240	Artesunate altered cellular mechanical properties leading to deregulation of cell proliferation and migration in esophageal squamous cell carcinoma. <i>Oncology Letters</i> , 2015, 9, 2249-2255.	0.8	18
1241	Early development under microgravity conditions. <i>Biophysics (Russian Federation)</i> , 2015, 60, 849-858.	0.2	5
1242	Interstitial Fluid Flow Mechanosensing: Mechanisms and Consequences. , 2015, , 145-172.		0
1243	A Dual Role of Graphene Oxide Sheet Deposition on Titanate Nanowire Scaffolds for Osteo-implantation: Mechanical Hardener and Surface Activity Regulator. <i>Scientific Reports</i> , 2015, 5, 18266.	1.6	33
1244	In PC3 prostate cancer cells ephrin receptors crosstalk to Î²1-integrins to strengthen adhesion to collagen type I. <i>Scientific Reports</i> , 2015, 5, 8206.	1.6	18
1245	Fibronectin remodelling: cell-mediated regulation of the microenvironment. <i>Biochemical Society Transactions</i> , 2015, 43, 122-128.	1.6	18
1246	Automated Analysis of Cell-Matrix Adhesions in 2D and 3D Environments. <i>Scientific Reports</i> , 2015, 5, 8124.	1.6	14
1247	Regulation of Endothelial Cell Adherence and Elastic Modulus by Substrate Stiffness. <i>Cell Communication and Adhesion</i> , 2015, 22, 79-89.	1.0	52
1248	Surface chemistry gradients on silicone elastomers for highâ€“throughput modulation of cellâ€“adhesive interfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2066-2076.	2.1	8
1249	Effects of Variations in Ligand Density on Cell Signaling. <i>Small</i> , 2015, 11, 5184-5199.	5.2	34

#	ARTICLE	IF	CITATIONS
1250	Biochemical, biophysical, and genetic changes of porcine trophoblast-derived stem-like cells during differentiation as evaluated using Raman microspectroscopy, Atomic force microscopy, and quantitative polymerase chain reaction. <i>Genesis</i> , 2015, 53, 749-761.	0.8	6
1251	A novel synthetic oleanane triterpenoid suppresses adhesion, migration, and invasion of highly metastatic melanoma cells by modulating gelatinase signaling axis. <i>Molecular Carcinogenesis</i> , 2015, 54, 654-667.	1.3	7
1252	Convergent Science Physical Oncology. <i>Convergent Science Physical Oncology</i> , 2015, 1, 010201.	2.6	0
1253	Microchamber Device for Detection of Transporter Activity of Adherent Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 32.	2.0	4
1254	Characterization of Human Gingival Fibroblasts on Zirconia Surfaces Containing Niobium Oxide. <i>Materials</i> , 2015, 8, 6018-6028.	1.3	12
1255	Mechanochemical regulation of growth cone motility. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 244.	1.8	127
1256	A Membrane-Type-1 Matrix Metalloproteinase (MT1-MMP) - Discoidin Domain Receptor 1 Axis Regulates Collagen-Induced Apoptosis in Breast Cancer Cells. <i>PLoS ONE</i> , 2015, 10, e0116006.	1.1	43
1257	A Review of Cell Adhesion Studies for Biomedical and Biological Applications. <i>International Journal of Molecular Sciences</i> , 2015, 16, 18149-18184.	1.8	663
1258	Cellular Responses Evoked by Different Surface Characteristics of Intraosseous Titanium Implants. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	128
1259	Differential Regulation of MicroRNAs in End-Stage Failing Hearts Is Associated with Left Ventricular Assist Device Unloading. <i>BioMed Research International</i> , 2015, 2015, 1-13.	0.9	38
1260	Biological Events in Periodontal Ligament and Alveolar Bone Associated with Application of Orthodontic Forces. <i>Scientific World Journal, The</i> , 2015, 2015, 1-7.	0.8	46
1261	Periodontal Biological Events Associated with Orthodontic Tooth Movement: The Biomechanics of the Cytoskeleton and the Extracellular Matrix. <i>Scientific World Journal, The</i> , 2015, 2015, 1-7.	0.8	18
1262	Rho regulation: DLC proteins in space and time. <i>Cellular Signalling</i> , 2015, 27, 1643-1651.	1.7	64
1263	EGF-induced dynamics of NF- $\kappa$ B and F-actin in A431 cells spread on fibronectin. <i>Histochemistry and Cell Biology</i> , 2015, 144, 223-235.	0.8	6
1264	Microcapsules engineered to support mesenchymal stem cell (MSC) survival and proliferation enable long-term retention of MSCs in infarcted myocardium. <i>Biomaterials</i> , 2015, 53, 12-24.	5.7	86
1265	N-Cadherin Induction by ECM Stiffness and FAK Overrides the Spreading Requirement for Proliferation of Vascular Smooth Muscle Cells. <i>Cell Reports</i> , 2015, 10, 1477-1486.	2.9	61
1266	The contractome - a systems view of actomyosin contractility in non-muscle cells. <i>Journal of Cell Science</i> , 2015, 128, 2209-2217.	1.2	74
1267	Aptamers-Guided DNA Nanomedicine for Cancer Theranostics. , 2015, , 111-137.		0

#	ARTICLE	IF	CITATIONS
1268	Cadherin-Based Cell-Cell Adhesions: Adhesion Structure, Signalling and Computational Modeling. , 2015, , 151-168.		0
1269	Spontaneous helical structure formation in laminin nanofibers. Journal of Materials Chemistry B, 2015, 3, 7993-8000.	2.9	8
1270	Reorganization of actin and microtubule systems in human vein endothelial cells during intercellular contact formation. Cell and Tissue Biology, 2015, 9, 299-309.	0.2	5
1271	Intercellular Communication in Cancer. , 2015, , .		4
1272	Modulation of tumor cell migration, invasion and cell-matrix adhesion by human monopolar spindle-one-binder 2. Oncology Reports, 2015, 33, 2495-2503.	1.2	8
1273	Finite element analysis of the pressure-induced deformation of Schlemm's canal endothelial cells. Biomechanics and Modeling in Mechanobiology, 2015, 14, 851-863.	1.4	9
1274	Intracellular forces during guided cell growth on micropatterns using FRET measurement. Journal of Biomechanics, 2015, 48, 627-635.	0.9	20
1275	Adsorption Force of Fibronectin on Various Surface Chemistries and Its Vital Role in Osteoblast Adhesion. Biomacromolecules, 2015, 16, 973-984.	2.6	61
1278	3D surface topology guides stem cell adhesion and differentiation. Biomaterials, 2015, 52, 140-147.	5.7	165
1279	Periostin induces fibroblast proliferation and myofibroblast persistence in hypertrophic scarring. Experimental Dermatology, 2015, 24, 120-126.	1.4	61
1280	PAK1 is involved in sensing the orientation of collagen stiffness gradients in mouse fibroblasts. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2526-2538.	1.9	5
1281	Fibronectin unfolded by adherent but not suspended platelets: An in vitro explanation for its dual role in haemostasis. Thrombosis Research, 2015, 136, 803-812.	0.8	6
1282	In vitro myogenesis induced by human recombinant elastin-like proteins. Biomaterials, 2015, 67, 240-253.	5.7	13
1283	Differential Expression of Adhesion-Related Proteins and MAPK Pathways Lead to Suitable Osteoblast Differentiation of Human Mesenchymal Stem Cells Subpopulations. Stem Cells and Development, 2015, 24, 2577-2590.	1.1	14
1284	Effect of fiber diameter on the assembly of functional 3D cardiac patches. Nanotechnology, 2015, 26, 291002.	1.3	43
1285	Modeling Active Mechanosensing in Cell-Matrix Interactions. Annual Review of Biophysics, 2015, 44, 1-32.	4.5	77
1286	Formation and osteoblast behavior of HA nano-rod/fiber patterned coatings on tantalum in porous and compact forms. Journal of Materials Chemistry B, 2015, 3, 5442-5454.	2.9	26
1287	Biomimetic Topography and Chemistry Control Cell Attachment to Amyloid Fibrils. Biomacromolecules, 2015, 16, 1556-1565.	2.6	31

#	ARTICLE	IF	CITATIONS
1288	Physical View on the Interactions Between Cancer Cells and the Endothelial Cell Lining During Cancer Cell Transmigration and Invasion. <i>Biophysical Reviews and Letters</i> , 2015, 10, 1-24.	0.9	3
1289	Material-based strategies to engineer fibronectin matrices for regenerative medicine. <i>International Materials Reviews</i> , 2015, 60, 245-264.	9.4	20
1290	Microfluidically supported biochip design for culture of endothelial cell layers with improved perfusion conditions. <i>Biofabrication</i> , 2015, 7, 015013.	3.7	56
1291	Graphene and carbon nanocompounds: biofunctionalization and applications in tissue engineering. <i>Biotechnology and Biotechnological Equipment</i> , 2015, 29, 415-422.	0.5	35
1292	The mechanotransduction machinery at work at adherens junctions. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 113-118.	0.6	113
1293	Cell Membrane Fluidity Mosaic Structure and Cancer Metastasis. <i>Cancer Research</i> , 2015, 75, 1169-1176.	0.4	62
1294	Emerging properties of adhesion complexes: what are they and what do they do?. <i>Trends in Cell Biology</i> , 2015, 25, 388-397.	3.6	101
1295	Epidermal Growth Factor Activates the Rho GTPase-activating Protein (GAP) Deleted in Liver Cancer 1 via Focal Adhesion Kinase and Protein Phosphatase 2A. <i>Journal of Biological Chemistry</i> , 2015, 290, 4149-4162.	1.6	22
1296	Substrate Coupling Strength of Integrin-Binding Ligands Modulates Adhesion, Spreading, and Differentiation of Human Mesenchymal Stem Cells. <i>Nano Letters</i> , 2015, 15, 6592-6600.	4.5	43
1297	In vivo quantitative analysis of Talin turnover in response to force. <i>Molecular Biology of the Cell</i> , 2015, 26, 4149-4162.	0.9	21
1298	Modeling the formation of cell-matrix adhesions on a single 3D matrix fiber. <i>Journal of Theoretical Biology</i> , 2015, 384, 84-94.	0.8	9
1299	The effects of caffeic, coumaric and ferulic acids on proliferation, superoxide production, adhesion and migration of human tumor cells in vitro. <i>European Journal of Pharmacology</i> , 2015, 766, 99-105.	1.7	111
1300	Intracellular Signaling of Cardiac Fibroblasts. <i>Journal of Cellular Biochemistry</i> , 2015, 5, 721-760.		34
1301	Mimicking biological phenomena in hydrogel-based biomaterials to promote dynamic cellular responses. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7867-7880.	2.9	27
1302	Flow-induced focal adhesion remodeling mediated by local cytoskeletal stresses and reorganization. <i>Cell Adhesion and Migration</i> , 2015, 9, 432-440.	1.1	14
1303	Signatures of natural selection between life cycle stages separated by metamorphosis in European eel. <i>BMC Genomics</i> , 2015, 16, 600.	1.2	17
1304	Integrin endosomal signalling suppresses anoikis. <i>Nature Cell Biology</i> , 2015, 17, 1412-1421.	4.6	184
1305	Talin determines the nanoscale architecture of focal adhesions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4864-73.	3.3	150

#	ARTICLE	IF	CITATIONS
1306	Integrative Utilization of Microenvironments, Biomaterials and Computational Techniques for Advanced Tissue Engineering. <i>Journal of Biotechnology</i> , 2015, 212, 71-89.	1.9	45
1307	Rheology of peptide- and protein-based physical hydrogels: Are everyday measurements just scratching the surface?. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 34-68.	3.3	92
1308	Networks of neuroblastoma cells on porous silicon substrates reveal a small world topology. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 184-197.	0.6	28
1309	Cell Adhesion and Movement. , 2015, , 61-72.		1
1310	Biological wires, communication systems, and implications for disease. <i>BioSystems</i> , 2015, 127, 14-27.	0.9	35
1311	Mechanical regulation of mesenchymal stem cell differentiation. <i>Journal of Anatomy</i> , 2015, 227, 717-731.	0.9	179
1312	Mechanical Changes in Human Dental Pulp Stem Cells during Early Odontogenic Differentiation. <i>Journal of Endodontics</i> , 2015, 41, 50-55.	1.4	12
1313	The mechanochemistry of cytoskeletal force generation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 59-72.	1.4	4
1314	Collagen. , 2016, , .		2
1315	Cytoskeletons in neuronal development. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2016, 5, 131-142.	0.2	2
1316	Dynamic Reorganization and Enzymatic Remodeling of Type IV Collagen at Cell-Biomaterial Interface. <i>Advances in Protein Chemistry and Structural Biology</i> , 2016, 105, 81-104.	1.0	14
1317	Mesenchymal Stem Cell Fate: Applying Biomaterials for Control of Stem Cell Behavior. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 38.	2.0	60
1318	Hydrogels as Extracellular Matrix Analogs. <i>Gels</i> , 2016, 2, 20.	2.1	64
1319	Responses of Vascular Endothelial Cells to Photoembossed Topographies on Poly(Methyl Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	1.8	10
1320	Mammalian target of rapamycin (<sc>mTOR</sc>) complex 2 regulates filamin A-dependent focal adhesion dynamics and cell migration. <i>Genes To Cells</i> , 2016, 21, 579-593.	0.5	43
1321	Preparation of Extracellular Matrices Produced by Cultured and Primary Fibroblasts. <i>Current Protocols in Cell Biology</i> , 2016, 71, 10.9.1-10.9.34.	2.3	129
1322	Investigation of the Viability, Adhesion, and Migration of Human Fibroblasts in a Hyaluronic Acid/Gelatin Microgel-Reinforced Composite Hydrogel for Vocal Fold Tissue Regeneration. <i>Advanced Healthcare Materials</i> , 2016, 5, 255-265.	3.9	32
1323	Protein Adsorption as a Key Mediator in the Nanotopographical Control of Cell Behavior. <i>ACS Nano</i> , 2016, 10, 6638-6647.	7.3	105

#	ARTICLE	IF	CITATIONS
1324	Identification of brefelamide as a novel inhibitor of osteopontin that suppresses invasion of A549 lung cancer cells. <i>Oncology Reports</i> , 2016, 36, 2357-2364.	1.2	17
1325	Dynamic interaction between actin and nesprin2 maintain the cell nucleus in a prestressed state. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 044008.	1.1	13
1326	Substrate stiffness of endothelial cells directs LFA-1/ICAM-1 interaction: A physical trigger of immune-related diseases?. <i>Clinical Hemorheology and Microcirculation</i> , 2016, 61, 633-643.	0.9	6
1327	Artesunate attenuates glioma proliferation, migration and invasion by affecting cellular mechanical properties. <i>Oncology Reports</i> , 2016, 36, 984-990.	1.2	26
1328	Biomimetic Flow Sensors. , 2016, , 309-322.		0
1329	Constructive remodeling of a synthetic endothelial extracellular matrix. <i>Scientific Reports</i> , 2016, 5, 18290.	1.6	28
1330	Protein Kinase D1 regulates focal adhesion dynamics and cell adhesion through Phosphatidylinositol-4-phosphate 5-kinase type-1 $\beta$ . <i>Scientific Reports</i> , 2016, 6, 35963.	1.6	10
1331	Cytoplasmic cyclin D1 regulates cell invasion and metastasis through the phosphorylation of paxillin. <i>Nature Communications</i> , 2016, 7, 11581.	5.8	92
1332	Nonmuscle Myosin IIA Regulates Platelet Contractile Forces Through Rho Kinase and Myosin Light-Chain Kinase. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .	0.6	27
1333	Cell Adhesion to the Extracellular Matrix. , 2016, , 713-719.		0
1334	Effects of <b><i>Aloe</i></b> Sterol Supplementation on Skin Elasticity, Hydration, and Collagen Score: A 12-Week Double-Blind, Randomized, Controlled Trial. <i>Skin Pharmacology and Physiology</i> , 2016, 29, 309-317.	1.1	685
1335	Signals and Receptors. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a005900.	2.3	98
1336	Transcriptomic changes in the ovaries of scallop <i>Chlamys farreri</i> exposed to benzo[a]pyrene. <i>Genes and Genomics</i> , 2016, 38, 509-518.	0.5	9
1337	Nanomedicine. <i>Advances in Delivery Science and Technology</i> , 2016, , .	0.4	6
1338	Bioinspired monolithic polymer microsphere arrays as generically anti-adhesive surfaces. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 025002.	1.5	8
1339	Stromal dynamic reciprocity in cancer: intricacies of fibroblastic-ECM interactions. <i>Current Opinion in Cell Biology</i> , 2016, 42, 80-93.	2.6	117
1340	Gradual conversion of cellular stress patterns into pre-stressed matrix architecture during <i>in vitro</i> tissue growth. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160136.	1.5	37
1341	Dynamic structure of plasma fibronectin. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2016, 51, 213-227.	2.3	89



#	ARTICLE	IF	CITATIONS
1342	Uptake of Marasmius oreades agglutinin disrupts integrin-dependent cell adhesion. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 392-401.	1.1	11
1343	Regenerative Medicine - from Protocol to Patient. , 2016, , .		1
1344	The physics of biofilmsâ€”an introduction. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 203001.	1.3	57
1345	The glycocalyx promotes cooperative binding and clustering of adhesion receptors. <i>Soft Matter</i> , 2016, 12, 4572-4583.	1.2	31
1346	Stem Cell Differentiation Mediated by Biomaterials/Surfaces. , 2016, , 187-251.		0
1347	Synergistic growth factor microenvironments. <i>Chemical Communications</i> , 2016, 52, 13327-13336.	2.2	46
1348	Physical View on the Interactions Between Cancer Cells and the Endothelial Cell Lining During Cancer Cell Transmigration and Invasion. , 2016, , 19-42.		0
1349	Ru(II)/bisphosphine/diimine/amino acid complexes: diastereoisomerism, cytotoxicity, and inhibition of tumor cell adhesion to collagen type I. <i>Journal of Coordination Chemistry</i> , 2016, 69, 3518-3530.	0.8	7
1350	Polymeric Biomaterials for Tissue Regeneration. , 2016, , .		4
1351	Materialâ€Driven Fibronectin Assembly Promotes Maintenance of Mesenchymal Stem Cell Phenotypes. <i>Advanced Functional Materials</i> , 2016, 26, 6563-6573.	7.8	23
1352	Hostâ€pathogen interactions of nontypeable <i>Haemophilus influenzae</i> : from commensal to pathogen. <i>FEBS Letters</i> , 2016, 590, 3840-3853.	1.3	102
1353	Recreating composition, structure, functionalities of tissues at nanoscale for regenerative medicine. <i>Regenerative Medicine</i> , 2016, 11, 849-858.	0.8	15
1354	Small Artery Elastin Distribution and Architectureâ€”Focus on Three Dimensional Organization. <i>Microcirculation</i> , 2016, 23, 614-620.	1.0	14
1355	Distinctive and selective route of PI3K/PKC $\pm$ /PKC $\hat{C}$ /RhoA-Rac1 signaling in osteoclastic cell migration. <i>Molecular and Cellular Endocrinology</i> , 2016, 437, 261-267.	1.6	19
1356	Tension-compression asymmetry in the binding affinity of membrane-anchored receptors and ligands. <i>Physical Review E</i> , 2016, 93, 032411.	0.8	4
1357	Research advances on structure and biological functions of integrins. <i>SpringerPlus</i> , 2016, 5, 1094.	1.2	68
1358	Cell-ECM Interactions in Tumor Invasion. <i>Advances in Experimental Medicine and Biology</i> , 2016, 936, 73-91.	0.8	64
1359	The integrinâ€talin complex under force. <i>Protein Engineering, Design and Selection</i> , 2016, 29, 503-512.	1.0	7

#	ARTICLE	IF	CITATIONS
1360	Anisotropic Materials for Skeletal Muscle Tissue Engineering. <i>Advanced Materials</i> , 2016, 28, 10588-10612.	11.1	221
1361	Recent Trends in ADPKD Research. <i>Advances in Experimental Medicine and Biology</i> , 2016, 933, 3-11.	0.8	4
1362	Flexible nanopillars to regulate cell adhesion and movement. <i>Nanotechnology</i> , 2016, 27, 475101.	1.3	15
1363	Multiscale View of Cytoskeletal Mechanoregulation of Cell and Tissue Polarity. <i>Handbook of Experimental Pharmacology</i> , 2016, 235, 263-284.	0.9	8
1364	Biologically Inspired Nanomaterials and Nanobiomagnetism: A Synergy among New Emerging Concepts in Regenerative Medicine. , 2016, , 15-34.		0
1365	Three-Dimensional Characterization of Mechanical Interactions between Endothelial Cells and Extracellular Matrix during Angiogenic Sprouting. <i>Scientific Reports</i> , 2016, 6, 21362.	1.6	31
1366	Nanopattern Gradients for Cell Studies Fabricated Using Hole-Mask Colloidal Lithography. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14975-14979.	4.0	12
1367	A Nanoprinted Model of Interstitial Cancer Migration Reveals a Link between Cell Deformability and Proliferation. <i>ACS Nano</i> , 2016, 10, 6437-6448.	7.3	34
1368	Guided Cellular Responses by Surface Cues for Nanomedicine Applications. <i>Advances in Delivery Science and Technology</i> , 2016, , 343-372.	0.4	1
1369	Pediatric cardiovascular grafts: historical perspective and future directions. <i>Current Opinion in Biotechnology</i> , 2016, 40, 119-124.	3.3	9
1370	Angiogenic potential of extracellular matrix of human amniotic membrane. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 211-217.	1.6	14
1371	Fibronectin maintains the balance between hemostasis and thrombosis. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3265-3277.	2.4	42
1372	Bioengineered glaucomatous 3D human trabecular meshwork as an in vitro disease model. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1357-1368.	1.7	42
1373	Differentiation of mesenchymal stem cells for cartilage tissue engineering: Individual and synergetic effects of three-dimensional environment and mechanical loading. <i>Acta Biomaterialia</i> , 2016, 33, 1-12.	4.1	92
1374	Cell Adhesion on Amyloid Fibrils Lacking Integrin Recognition Motif. <i>Journal of Biological Chemistry</i> , 2016, 291, 5278-5298.	1.6	49
1375	Regulation of invadopodia by mechanical signaling. <i>Experimental Cell Research</i> , 2016, 343, 89-95.	1.2	61
1376	Non-thermal atmospheric pressure plasma increased mRNA expression of growth factors in human gingival fibroblasts. <i>Clinical Oral Investigations</i> , 2016, 20, 1801-1808.	1.4	24
1377	Biochemical analysis on microfluidic chips. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 213-231.	5.8	108

#	ARTICLE	IF	CITATIONS
1378	The journey of integrins and partners in a complex interactions landscape studied by super-resolution microscopy and single protein tracking. <i>Experimental Cell Research</i> , 2016, 343, 28-34.	1.2	19
1379	Localized LoxL3-Dependent Fibronectin Oxidation Regulates Myofiber Stretch and Integrin-Mediated Adhesion. <i>Developmental Cell</i> , 2016, 36, 550-561.	3.1	47
1380	Fibronectin-Containing Extracellular Vesicles Protect Melanocytes against Ultraviolet Radiation-Induced Cytotoxicity. <i>Journal of Investigative Dermatology</i> , 2016, 136, 957-966.	0.3	32
1381	Nanotopography-Induced Structural Anisotropy and Sarcomere Development in Human Cardiomyocytes Derived from Induced Pluripotent Stem Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21923-21932.	4.0	155
1382	Enhanced Patency and Endothelialization of Small-Caliber Vascular Grafts Fabricated by Coimmobilization of Heparin and Cell-Adhesive Peptides. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4336-4346.	4.0	98
1383	The osteogenic capacity of biomimetic hierarchical micropore/nanorod-patterned Sr-HA coatings with different interrod spacings. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1161-1173.	1.7	52
1384	Coassembled nanostructured bioscaffold reduces the expression of proinflammatory cytokines to induce apoptosis in epithelial cancer cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1397-1407.	1.7	39
1385	Proteomic profiling of epileptogenesis in a rat model: Focus on inflammation. <i>Brain, Behavior, and Immunity</i> , 2016, 53, 138-158.	2.0	70
1386	Mechanosensitivity of integrin adhesion complexes: role of the consensus adhesome. <i>Experimental Cell Research</i> , 2016, 343, 7-13.	1.2	76
1387	Mechanosensing in cell-matrix adhesions: Converting tension into chemical signals. <i>Experimental Cell Research</i> , 2016, 343, 35-41.	1.2	84
1388	Review of cellular mechanotransduction on micropost substrates. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 249-271.	1.6	9
1389	Surface enhanced Raman spectroscopy measurements of MCF7 cells adhesion in confined micro-environments. <i>Optics and Lasers in Engineering</i> , 2016, 76, 9-16.	2.0	7
1390	Forcing through Tumor Metastasis: The Interplay between Tissue Rigidity and Epithelial-Mesenchymal Transition. <i>Trends in Cell Biology</i> , 2016, 26, 111-120.	3.6	175
1391	Hydrogel arrays formed via differential wettability patterning enable combinatorial screening of stem cell behavior. <i>Acta Biomaterialia</i> , 2016, 34, 93-103.	4.1	37
1392	<i>Brucella abortus</i> Invasion of Osteocytes Modulates Connexin 43 and Integrin Expression and Induces Osteoclastogenesis via Receptor Activator of NF- $\kappa$ B Ligand and Tumor Necrosis Factor Alpha Secretion. <i>Infection and Immunity</i> , 2016, 84, 11-20.	1.0	17
1393	Stress distribution retrieval in granular materials: A multi-scale model and digital image correlation measurements. <i>Optics and Lasers in Engineering</i> , 2016, 76, 17-26.	2.0	12
1394	Comparison of growth & function of endothelial progenitor cells cultured on deproteinized bovine bone modified with covalently bound fibronectin and bound vascular endothelial growth factor. <i>Clinical Oral Implants Research</i> , 2017, 28, 543-550.	1.9	6
1395	Fibronectin fibrils regulate TGF- $\beta$ 1-induced Epithelial-Mesenchymal Transition. <i>Matrix Biology</i> , 2017, 60-61, 157-175.	1.5	72

#	ARTICLE	IF	CITATIONS
1396	Mesoporous Silica Nanoparticles as an Antitumoral-Angiogenesis Strategy. ACS Applied Materials & Interfaces, 2017, 9, 6690-6703.	4.0	55
1397	A phenomenological cohesive model for the macroscopic simulation of cell-matrix adhesions. Biomechanics and Modeling in Mechanobiology, 2017, 16, 1207-1224.	1.4	7
1398	Detailed resolution analysis reveals spatial T cell heterogeneity in the invasive margin of colorectal cancer liver metastases associated with improved survival. Oncoimmunology, 2017, 6, e1286436.	2.1	59
1399	Enterolactone alters FAK-Src signaling and suppresses migration and invasion of lung cancer cell lines. BMC Complementary and Alternative Medicine, 2017, 17, 30.	3.7	32
1400	Surface microtopography modulates sealing zone development in osteoclasts cultured on bone. Journal of the Royal Society Interface, 2017, 14, 20160958.	1.5	15
1401	Focal adhesion stabilization by enhanced integrin-cRGD binding affinity. BioNanoMaterials, 2017, 18, .	1.4	10
1402	Cellular Response to Surface Topography and Substrate Stiffness. Pancreatic Islet Biology, 2017, , 41-57.	0.1	3
1403	Monitoring in real-time focal adhesion protein dynamics in response to a discrete mechanical stimulus. Review of Scientific Instruments, 2017, 88, 013703.	0.6	6
1404	Nicotine facilitates VSMC dysfunction through a miR-200b/RhoGDI/cytoskeleton module. Scientific Reports, 2017, 7, 43798.	1.6	11
1405	Metallic nanoparticles reduce the migration of human fibroblasts in vitro. Nanoscale Research Letters, 2017, 12, 200.	3.1	38
1406	Kidney Development and Disease. Results and Problems in Cell Differentiation, 2017, , .	0.2	2
1407	Inflammation and Fibrosis in Polycystic Kidney Disease. Results and Problems in Cell Differentiation, 2017, 60, 323-344.	0.2	68
1408	Nanoparticles for modulating tumor microenvironment to improve drug delivery and tumor therapy. Pharmacological Research, 2017, 126, 97-108.	3.1	181
1409	Mechanosensing of substrate stiffness regulates focal adhesions dynamics in cell. Meccanica, 2017, 52, 3389-3398.	1.2	18
1410	EGFR and HER2 activate rigidity sensing only on rigid matrices. Nature Materials, 2017, 16, 775-781.	13.3	68
1411	Stretch-dependent changes in molecular conformation in fibronectin nanofibers. Biomaterials Science, 2017, 5, 1629-1639.	2.6	19
1412	Dual phenotype of MDA-MB-468 cancer cells reveals mutual regulation of tensin3 and adhesion plasticity. Journal of Cell Science, 2017, 130, 2172-2184.	1.2	10
1413	Engineering in vitro models of hepatofibrogenesis. Advanced Drug Delivery Reviews, 2017, 121, 147-157.	6.6	45

#	ARTICLE	IF	CITATIONS
1414	A Dynamic Biochemomechanical Model of Geometry-Confined Cell Spreading. <i>Biophysical Journal</i> , 2017, 112, 2377-2386.	0.2	14
1415	Extracellular matrix protein laminin enhances mesenchymal stem cell (MSC) paracrine function through $\alpha 3$ /CD61 integrin to reduce cardiomyocyte apoptosis. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 1572-1583.	1.6	36
1416	ECM Mechano-Sensing Regulates Cytoskeleton Assembly and Receptor-Mediated Endocytosis of Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1586-1594.	2.6	19
1417	Molecular targets of dietary phytochemicals for possible prevention and therapy of uterine fibroids: Focus on fibrosis. <i>Critical Reviews in Food Science and Nutrition</i> , 2017, 57, 3583-3600.	5.4	17
1419	Osteogenic Differentiation of MSCs on Fibronectin-Coated and nHA-Modified Scaffolds. <i>ASAIO Journal</i> , 2017, 63, 684-691.	0.9	26
1420	Inhibition of c-Src protects paraquat induced microvascular endothelial injury by modulating caveolin-1 phosphorylation and caveolae mediated transcellular permeability. <i>Environmental Toxicology and Pharmacology</i> , 2017, 52, 62-68.	2.0	16
1421	Calcium oscillations in wounded fibroblast monolayers are spatially regulated through substrate mechanics. <i>Physical Biology</i> , 2017, 14, 045006.	0.8	19
1422	AMPK negatively regulates tensin-dependent integrin activity. <i>Journal of Cell Biology</i> , 2017, 216, 1107-1121.	2.3	87
1423	The Changes of Cytoskeletal Proteins Induced by the Fast Effect of Estrogen in Mouse Blastocysts and Its Roles in Implantation. <i>Reproductive Sciences</i> , 2017, 24, 1639-1646.	1.1	7
1424	Distinct focal adhesion protein modules control different aspects of mechanotransduction. <i>Journal of Cell Science</i> , 2017, 130, 1612-1624.	1.2	132
1425	Anodized 3D-printed titanium implants with dual micro- and nano-scale topography promote interaction with human osteoblasts and osteocyte-like cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 3313-3325.	1.3	88
1426	Integrin-linked kinase regulates cellular mechanics facilitating the motility in 3D extracellular matrices. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 580-593.	1.9	26
1427	Mesenchymal stem cells cultured on magnetic nanowire substrates. <i>Nanotechnology</i> , 2017, 28, 055703.	1.3	12
1428	Automated quantification of three-dimensional organization of fiber-like structures in biological tissues. <i>Biomaterials</i> , 2017, 116, 34-47.	5.7	55
1429	Relevance of meniscal cell regional phenotype to tissue engineering. <i>Connective Tissue Research</i> , 2017, 58, 259-270.	1.1	23
1430	Biomaterials to suppress cancer stem cells and disrupt their tumoral niche. <i>International Journal of Pharmaceutics</i> , 2017, 523, 490-505.	2.6	15
1431	Cell adhesion on glassy scaffolds with a different mechanical response. <i>Journal of Materials Chemistry B</i> , 2017, 5, 714-719.	2.9	5
1432	The Actin Cytoskeleton. <i>Handbook of Experimental Pharmacology</i> , 2017, , .	0.9	2

#	ARTICLE	IF	CITATIONS
1433	Intermediate Filaments and the Plasma Membrane. Cold Spring Harbor Perspectives in Biology, 2017, 9, a025866.	2.3	31
1434	Open-angle glaucoma: therapeutically targeting the extracellular matrix of the conventional outflow pathway. Expert Opinion on Therapeutic Targets, 2017, 21, 1037-1050.	1.5	41
1435	Sensing of micropillars by osteoblasts involves complex intracellular signaling. Journal of Materials Science: Materials in Medicine, 2017, 28, 171.	1.7	9
1436	Molecular Simulations Suggest a Force-Dependent Mechanism of Vinculin Activation. Biophysical Journal, 2017, 113, 1697-1710.	0.2	19
1437	Measuring the Poisson's Ratio of Fibronectin Using Engineered Nanofibers. Scientific Reports, 2017, 7, 13413.	1.6	10
1438	Quantitative Studies of Endothelial Cell Fibronectin and Filamentous Actin (F-Actin) Coalignment in Response to Shear Stress. Microscopy and Microanalysis, 2017, 23, 1013-1023.	0.2	7
1439	Nano-topography Enhances Communication in Neural Cells Networks. Scientific Reports, 2017, 7, 9841.	1.6	48
1440	Quantitative analysis of mechanical force required for cell extrusion in zebrafish embryonic epithelia. Biology Open, 2017, 6, 1575-1580.	0.6	13
1441	Impact of structurally modifying hyaluronic acid on CD44 interaction. Journal of Materials Chemistry B, 2017, 5, 8183-8192.	2.9	125
1442	Endothelial Cell Culture Under Perfusion On A Polyester-Toner Microfluidic Device. Scientific Reports, 2017, 7, 10466.	1.6	20
1443	Structural basis of kindlin-mediated integrin recognition and activation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9349-9354.	3.3	130
1444	ERK signalling as a regulator of cell motility. Journal of Biochemistry, 2017, 162, 145-154.	0.9	135
1445	Nano-scale clustering of integrin-binding ligands regulates endothelial cell adhesion, migration, and endothelialization rate: novel materials for small diameter vascular graft applications. Journal of Materials Chemistry B, 2017, 5, 5942-5953.	2.9	26
1446	Nanoscale mechanobiology of cell adhesions. Seminars in Cell and Developmental Biology, 2017, 71, 53-67.	2.3	35
1447	Effect of matrix stiffness on the proliferation and differentiation of umbilical cord mesenchymal stem cells. Differentiation, 2017, 96, 30-39.	1.0	58
1448	7.19 Materials in Dental Implantology - , 2017, , 341-377.		3
1449	Extracellular Matrix Induction of Intracellular Reactive Oxygen Species. Antioxidants and Redox Signaling, 2017, 27, 774-784.	2.5	24
1450	Multiphoton Fabrication of Fibronectin-Functionalized Protein Micropatterns: Stiffness-Induced Maturation of Cell-Matrix Adhesions in Human Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2017, 9, 29469-29480.	4.0	13

#	ARTICLE	IF	CITATIONS
1451	Engineering of Micro- to Nanostructured 3D-Printed Drug-Releasing Titanium Implants for Enhanced Osseointegration and Localized Delivery of Anticancer Drugs. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 29562-29570.	4.0	63
1452	Detecting pathway relationship in the context of human protein-protein interaction network and its application to Parkinson's disease. <i>Methods</i> , 2017, 131, 93-103.	1.9	9
1453	Are mechanically sensitive regulators involved in the function and (patho)physiology of cerebral palsy-related contractures?. <i>Journal of Muscle Research and Cell Motility</i> , 2017, 38, 317-330.	0.9	11
1454	An in situ Dynamic Continuum of Supramolecular Phosphoglycopeptides Enables Formation of 3D Cell Spheroids. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16297-16301.	7.2	50
1455	Acquisition of anoikis resistance promotes alterations in the Ras/ERK and PI3K/Akt signaling pathways and matrix remodeling in endothelial cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2017, 22, 1116-1137.	2.2	41
1456	Nanopatterned Adhesive, Stretchable Hydrogel to Control Ligand Spacing and Regulate Cell Spreading and Migration. <i>ACS Nano</i> , 2017, 11, 8282-8291.	7.3	86
1457	Biomedical applications of hybrid polymer composite materials. , 2017, , 343-408.		10
1458	Mechanochemical feedback underlies coexistence of qualitatively distinct cell polarity patterns within diverse cell populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5750-E5759.	3.3	51
1459	Role of surface finishing on the in vitro biological properties of a silicon nitride-titanium nitride (Si <sub>3</sub> N <sub>4</sub> -TiN) composite. <i>Journal of Materials Science</i> , 2017, 52, 467-477.	1.7	20
1460	Programmable binary chimera aptamer probes for intelligent fluorescence imaging of cell membrane receptors. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 422-429.	4.0	8
1461	Involvement of Rho GAP GRAF1 in maintenance of epithelial phenotype. <i>Cell Adhesion and Migration</i> , 2017, 11, 367-383.	1.1	8
1462	Fibronectin induces macrophage migration through a SFK-FAK/CSF-1R pathway. <i>Cell Adhesion and Migration</i> , 2017, 11, 327-337.	1.1	47
1463	Bupleurum chinense polysaccharide inhibit adhesion of human melanoma cells via blocking $\alpha$ 21 integrin function. <i>Carbohydrate Polymers</i> , 2017, 156, 244-252.	5.1	11
1464	An in situ Dynamic Continuum of Supramolecular Phosphoglycopeptides Enables Formation of 3D Cell Spheroids. <i>Angewandte Chemie</i> , 2017, 129, 16515-16519.	1.6	11
1465	Optical stretching in continuous flows. <i>Convergent Science Physical Oncology</i> , 2017, 3, 024004.	2.6	8
1466	Lengthening primary cilia enhances cellular mechanosensitivity. , 2017, 33, 158-168.		74
1467	Mechanisms and Morphology of Cellular Injury, Adaptation, and Death. , 2017, , 2-43.e19.		107
1468	Mapping Heart Development in Flies: Src42A Acts Non-Autonomously to Promote Heart Tube Formation in <i>Drosophila</i> . <i>Veterinary Sciences</i> , 2017, 4, 23.	0.6	3



#	ARTICLE	IF	CITATIONS
1469	Serine/Threonine Kinase 3-Phosphoinositide-Dependent Protein Kinase-1 (PDK1) as a Key Regulator of Cell Migration and Cancer Dissemination. <i>Cancers</i> , 2017, 9, 25.	1.7	51
1470	Brucella and Osteoarticular Cell Activation: Partners in Crime. <i>Frontiers in Microbiology</i> , 2017, 8, 256.	1.5	15
1471	Time-Dependent, HIV-Tat-Induced Perturbation of Human Neurons In Vitro: Towards a Model for the Molecular Pathology of HIV-Associated Neurocognitive Disorders. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 163.	1.4	6
1472	4.13 Peptide- and Protein-Modified Surfaces $\hat{\alpha}$ †. , 2017, , 200-220.		1
1473	4.11 Nanoscale Surface Cues and Cell Behavior $\hat{\alpha}$ †. , 2017, , 163-179.		0
1474	Mechanical Stimulation of Cells Through Scaffold Design for Tissue Engineering. , 2017, , .		3
1475	Extracellular matrix remodeling in 3D: implications in tissue homeostasis and disease progression. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018, 10, e1503.	3.3	35
1476	New developments on skin fibrosis - Essential signals emanating from the extracellular matrix for the control of myofibroblasts. <i>Matrix Biology</i> , 2018, 68-69, 522-532.	1.5	67
1477	Heterogeneity of Focal Adhesions and Focal Contacts in Motile Fibroblasts. <i>Methods in Molecular Biology</i> , 2018, 1745, 205-218.	0.4	2
1478	Biologically Inspired Materials in Tissue Engineering. <i>Pancreatic Islet Biology</i> , 2018, , 113-147.	0.1	1
1479	Design and Applications of Cell-Selective Surfaces and Interfaces. <i>Biomacromolecules</i> , 2018, 19, 1746-1763.	2.6	35
1480	Integrin Clustering Matters: A Review of Biomaterials Functionalized with Multivalent Integrin-Binding Ligands to Improve Cell Adhesion, Migration, Differentiation, Angiogenesis, and Biomedical Device Integration. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701324.	3.9	81
1481	Instructive microenvironments in skin wound healing: Biomaterials as signal releasing platforms. <i>Advanced Drug Delivery Reviews</i> , 2018, 129, 95-117.	6.6	127
1482	Cellular behaviors on polymeric scaffolds with 2D-patterned mechanical properties. <i>Polymer Journal</i> , 2018, 50, 737-743.	1.3	3
1483	Extracellular Matrix for Tissue Engineering and Biomaterials. <i>Pancreatic Islet Biology</i> , 2018, , .	0.1	2
1484	Furthering the state of knowledge on the electric properties of hemi-ellipsoidal single cells and cell patches on electrodes. <i>Biosensors and Bioelectronics</i> , 2018, 105, 166-172.	5.3	6
1485	Tuning surface properties of bone biomaterials to manipulate osteoblastic cell adhesion and the signaling pathways for the enhancement of early osseointegration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 58-69.	2.5	147
1486	Formation of Multi-Component Extracellular Matrix Protein Fibers. <i>Scientific Reports</i> , 2018, 8, 1913.	1.6	14

#	ARTICLE	IF	CITATIONS
1487	Porous Substrates Promote Endothelial Migration at the Expense of Fibronectin Fibrillogenesis. ACS Biomaterials Science and Engineering, 2018, 4, 222-230.	2.6	15
1488	Engineering Biocompatible Scaffolds through the Design of Elastin-Based Short Peptides. ChemPlusChem, 2018, 83, 47-52.	1.3	8
1489	Protein-Substrate Adhesion in Microcontact Printing Regulates Cell Behavior. Langmuir, 2018, 34, 1750-1759.	1.6	26
1490	Traction cytometry: regularization in the Fourier approach and comparisons with finite element method. Soft Matter, 2018, 14, 4687-4695.	1.2	14
1491	Amyloid Fibrils: Versatile Biomaterials for Cell Adhesion and Tissue Engineering Applications. Biomacromolecules, 2018, 19, 1826-1839.	2.6	99
1492	Hydrogel microenvironments for cancer spheroid growth and drug screening. Science Advances, 2018, 4, eaas8998.	4.7	238
1493	Biological responses to immobilized microscale and nanoscale surface topographies. , 2018, 182, 33-55.		68
1494	Biochemical Analysis Techniques Integrated on Microfluidic Chips and Their Applications. Integrated Analytical Systems, 2018, , 313-338.	0.4	1
1495	Guiding morphogenesis in cell-instructive microgels for therapeutic angiogenesis. Biomaterials, 2018, 154, 34-47.	5.7	52
1496	The extracellular matrix protein mindin attenuates colon cancer progression by blocking angiogenesis via Egr-1-mediated regulation. Oncogene, 2018, 37, 601-615.	2.6	37
1497	Determination of Green's function for three-dimensional traction force reconstruction based on geometry and boundary conditions of cell culture matrices. Acta Biomaterialia, 2018, 67, 215-228.	4.1	11
1498	Contact guidance diversity in rotationally aligned collagen matrices. Acta Biomaterialia, 2018, 66, 248-257.	4.1	37
1499	Optimized Feed-forward Control Scheme for Vienna Rectifier with Estimated Load-Current. , 2018, , .		1
1501	Bimodal sensing of guidance cues in mechanically distinct microenvironments. Nature Communications, 2018, 9, 4891.	5.8	52
1502	The Effects of Non-Thermal Atmospheric Pressure Plasma treated Titanium Surface on Behaviors of Oral Soft Tissue Cells. Scientific Reports, 2018, 8, 15963.	1.6	20
1503	Extracellular matrix alignment dictates the organization of focal adhesions and directs uniaxial cell migration. APL Bioengineering, 2018, 2, 046107.	3.3	78
1504	Cardiovascular Development. , 2018, , 1-28.		0
1505	Beyond RGD; nanoclusters of syndecan- and integrin-binding ligands synergistically enhance cell/material interactions. Biomaterials, 2018, 187, 81-92.	5.7	22

#	ARTICLE	IF	CITATIONS
1506	Engineered systems to study the synergistic signaling between integrin-mediated mechanotransduction and growth factors (Review). <i>Biointerphases</i> , 2018, 13, 06D302.	0.6	21
1507	Increased elastic modulus of plasma polymer coatings reinforced with detonation nanodiamond particles improves osteogenic differentiation of mesenchymal stem cells. <i>Turkish Journal of Biology</i> , 2018, 42, 195-203.	2.1	1
1508	Cellular Response to Surface Morphology: Electrospinning and Computational Modeling. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 155.	2.0	65
1509	Stimuli-Responsive Nano-Architecture Drug-Delivery Systems to Solid Tumor Microenvironment: Past, Present, and Future Perspectives. <i>ACS Nano</i> , 2018, 12, 10636-10664.	7.3	320
1510	Cell Attachment and Spreading on Carbon Nanotubes Is Facilitated by Integrin Binding. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 129.	2.0	25
1511	Flotillins Regulate Focal Adhesions by Interacting with $\hat{\pm}$ -Actinin and by Influencing the Activation of Focal Adhesion Kinase. <i>Cells</i> , 2018, 7, 28.	1.8	16
1513	Structural Colored Balloon Composed of Temperature-Responsive Polymers Showing LCST Behavior. <i>Langmuir</i> , 2018, 34, 12853-12860.	1.6	4
1514	Computational model of wound healing: EGF secreted by fibroblasts promotes delayed re-epithelialization of epithelial keratinocytes. <i>Integrative Biology (United Kingdom)</i> , 2018, 10, 605-634.	0.6	16
1515	The interface between the EGF1 and EGF2 domains is critical in integrin affinity regulation. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 7264-7273.	1.2	6
1516	Direct optical micropatterning of poly(dimethylsiloxane) for microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 095011.	1.5	7
1518	Assessment of extracellular matrix modulation of cell traction force by using silicon nanowire array. <i>Nano Energy</i> , 2018, 50, 504-512.	8.2	9
1519	Micro and Nanofabrication methods to control cell-substrate interactions and cell behavior: A review from the tissue engineering perspective. <i>Bioactive Materials</i> , 2018, 3, 355-369.	8.6	205
1520	Adsorption force of fibronectin controls transmission of cell traction force and subsequent stem cell fate. <i>Biomaterials</i> , 2018, 162, 170-182.	5.7	17
1521	The Role of Inflammation and Fibrosis in Cystic Kidney Disease. , 2018, , 111-129.		2
1522	Regulation of Breast Cancer-Induced Osteoclastogenesis by MacroH2A1.2 Involving EZH2-Mediated H3K27me3. <i>Cell Reports</i> , 2018, 24, 224-237.	2.9	29
1523	Regulation Effects of Biomimetic Hybrid Scaffolds on Vascular Endothelium Remodeling. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23583-23594.	4.0	49
1524	Tunable cell-surface mimetics as engineered cell substrates. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2076-2093.	1.4	1
1525	Nanofabrication technologies to control cell and tissue function for biomedical applications. , 2018, , 385-409.		0

#	ARTICLE	IF	CITATIONS
1526	An important step towards a prevascularized islet macroencapsulation device—effect of micropatterned membranes on development of endothelial cell network. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 91.	1.7	24
1527	A chemical genetics approach identifies PTP4A3 as a regulator of colon cancer cell adhesion. <i>FASEB Journal</i> , 2018, 32, 5661-5673.	0.2	12
1528	Wound healing of human embryonic stem cell-derived retinal pigment epithelial cells is affected by maturation stage. <i>BioMedical Engineering OnLine</i> , 2018, 17, 102.	1.3	4
1529	Self-assembled peptide nanostructures and their gels for regenerative medicine applications. , 2018, , 455-473.		1
1530	Aligned Carbon Nanotubes Reduce Hypertrophic Scar <i>via</i> Regulating Cell Behavior. <i>ACS Nano</i> , 2018, 12, 7601-7612.	7.3	46
1531	Introduction and Literature Review. <i>Springer Theses</i> , 2018, , 1-45.	0.0	0
1532	Fibronectin aggregates promote features of a classically and alternatively activated phenotype in macrophages. <i>Journal of Neuroinflammation</i> , 2018, 15, 218.	3.1	31
1533	Prednisolone induces osteoporosis-like phenotypes via focal adhesion signaling pathway in zebrafish larvae. <i>Biology Open</i> , 2018, 7, .	0.6	21
1534	The strength of the protein-material interaction determines cell fate. <i>Acta Biomaterialia</i> , 2018, 77, 74-84.	4.1	28
1535	Deguelin attenuates non-small cell lung cancer cell metastasis through inhibiting the CtsZ/FAK signaling pathway. <i>Cellular Signalling</i> , 2018, 50, 131-141.	1.7	40
1536	Morphomechanical Alterations Induced by Transforming Growth Factor- $\beta$ 21 in Epithelial Breast Cancer Cells. <i>Cancers</i> , 2018, 10, 234.	1.7	11
1537	Applications of kidney organoids derived from human pluripotent stem cells. <i>Korean Journal of Internal Medicine</i> , 2018, 33, 649-659.	0.7	25
1538	Mechanisms of Aquaporin-Facilitated Cancer Invasion and Metastasis. <i>Frontiers in Chemistry</i> , 2018, 6, 135.	1.8	87
1539	Systems Biology, Systems Medicine, Systems Pharmacology: The What and The Why. <i>Acta Biotheoretica</i> , 2018, 66, 345-365.	0.7	35
1540	Compliant Substratum Changes Osteocyte Functions: The Role of ITGB3/FAK/ $\beta$ 1-Catenin Signaling Matters. <i>ACS Applied Bio Materials</i> , 2018, 1, 792-801.	2.3	17
1541	hMENA isoforms impact NSCLC patient outcome through fibronectin/ $\beta$ 1 integrin axis. <i>Oncogene</i> , 2018, 37, 5605-5617.	2.6	17
1542	Cell—Substrate Interactions. , 2019, , 437-468.		10
1543	Hydrogel vehicles for sequential delivery of protein drugs to promote vascular regeneration. <i>Advanced Drug Delivery Reviews</i> , 2019, 149-150, 95-106.	6.6	52

#	ARTICLE	IF	CITATIONS
1544	F-Spondin Is the Signal by Which 2-Methoxyestradiol Induces Apoptosis in the Endometrial Cancer Cell Line Ishikawa. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3850.	1.8	7
1545	Polycystic Kidney Disease and Renal Fibrosis. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1165, 81-100.	0.8	17
1546	Amplification of nuclear deformation of breast cancer cells by seeding on micropatterned surfaces to better distinguish their malignancies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110402.	2.5	21
1547	Dynamics and distribution of paxillin, vinculin, zyxin and VASP depend on focal adhesion location and orientation. <i>Scientific Reports</i> , 2019, 9, 10460.	1.6	63
1548	Connections between the cell cycle, cell adhesion and the cytoskeleton. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180227.	1.8	102
1549	RITA modulates cell migration and invasion by affecting focal adhesion dynamics. <i>Molecular Oncology</i> , 2019, 13, 2121-2141.	2.1	12
1550	Unbiased pattern analysis reveals highly diverse responses of cytoskeletal systems to cyclic straining. <i>PLoS ONE</i> , 2019, 14, e0210570.	1.1	4
1551	Chemical modification of pure titanium surfaces to enhance the cytocompatibility and differentiation of human mesenchymal stem cells. <i>Dental Materials Journal</i> , 2019, 38, 1026-1035.	0.8	3
1552	Biophysics of Cell-Substrate Interactions Under Shear. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 251.	1.8	27
1553	Post-Passage rock inhibition induces cytoskeletal aberrations and apoptosis in Human embryonic stem cells. <i>Stem Cell Research</i> , 2019, 41, 101641.	0.3	17
1554	Defective cell adhesion function of solute transporter, SLC4A11, in endothelial corneal dystrophies. <i>Human Molecular Genetics</i> , 2020, 29, 97-116.	1.4	18
1555	Modeling distributed forces within cell adhesions of varying size on continuous substrates. <i>Cytoskeleton</i> , 2019, 76, 571-585.	1.0	7
1556	Pure iso-type systems. <i>Journal of Functional Programming</i> , 2019, 29, .	0.5	4
1557	Signaling pathways and gene co-expression modules associated with cytoskeleton and axon morphology in breast cancer survivors with chronic paclitaxel-induced peripheral neuropathy. <i>Molecular Pain</i> , 2019, 15, 174480691987808.	1.0	10
1558	Osteogenic differentiation of bone marrow-derived mesenchymal stem cells on anodized niobium surface. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 104.	1.7	6
1559	The Role of Stiffness in Cell Reprogramming: A Potential Role for Biomaterials in Inducing Tissue Regeneration. <i>Cells</i> , 2019, 8, 1036.	1.8	72
1560	Altered microglia and neurovasculature in the Alzheimer's disease cerebellum. <i>Neurobiology of Disease</i> , 2019, 132, 104589.	2.1	36
1561	Tumor self-responsive upconversion nanomedicines for theranostic applications. <i>Nanoscale</i> , 2019, 11, 17535-17556.	2.8	30

#	ARTICLE	IF	CITATIONS
1562	Mechanobiology of the abluminal glycocalyx. <i>Biorheology</i> , 2019, 56, 101-112.	1.2	13
1563	Cell mechanosensing is regulated by substrate strain energy rather than stiffness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22004-22013.	3.3	60
1564	Five Piconewtons: The Difference between Osteogenic and Adipogenic Fate Choice in Human Mesenchymal Stem Cells. <i>ACS Nano</i> , 2019, 13, 11129-11143.	7.3	47
1565	Impact of Mechanobiological Perturbation in Cartilage Tissue Engineering. , 2019, , 379-392.		2
1566	Nanotopographical Control of Cell Assembly into Supracellular Structures. <i>Advanced Structured Materials</i> , 2019, , 19-53.	0.3	1
1567	ECM signaling in cartilage development and endochondral ossification. <i>Current Topics in Developmental Biology</i> , 2019, 133, 25-47.	1.0	38
1568	Mechanobiology of mice cervix: expression profile of mechano-related molecules during pregnancy. <i>Cell and Tissue Research</i> , 2019, 376, 443-456.	1.5	11
1569	Solvent-Induced Nanotopographies of Single Microfibers Regulate Cell Mechanotransduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7671-7685.	4.0	32
1570	Traction force microscopy with optimized regularization and automated Bayesian parameter selection for comparing cells. <i>Scientific Reports</i> , 2019, 9, 539.	1.6	48
1571	Norcantharidin Suppresses YD-15 Cell Invasion Through Inhibition of FAK/Paxillin and F-Actin Reorganization. <i>Molecules</i> , 2019, 24, 1928.	1.7	11
1572	Clathrin-containing adhesion complexes. <i>Journal of Cell Biology</i> , 2019, 218, 2086-2095.	2.3	48
1573	Structural Features of Actin Cytoskeleton Required for Endotheliocyte Barrier Function. <i>Biochemistry (Moscow)</i> , 2019, 84, 358-369.	0.7	11
1574	Scattered podosomes and podosomes associated with the sealing zone architecture in cultured osteoclasts revealed by cell shearing, quick freezing, and platinumâ€replica electron microscopy. <i>Cytoskeleton</i> , 2019, 76, 303-321.	1.0	7
1575	Mechanotransduction and Growth Factor Signaling in Hydrogel-Based Microenvironments. , 2019, , 87-87.		1
1577	Comparative analysis of transcriptomes between apical pulpâ€derived cells from deciduous teeth and permanent teeth or dental pulp cells from exfoliated deciduous teeth. <i>Journal of Gene Medicine</i> , 2019, 21, e3098.	1.4	1
1578	Composite Lipid Bilayers from Cell Membrane Extracts and Artificial Mixes as a Cell Culture Platform. <i>Langmuir</i> , 2019, 35, 8076-8084.	1.6	9
1579	Organoids Increase the Predictive Value of in vitro Cancer Chemoprevention Studies for in vivo Outcome. <i>Frontiers in Oncology</i> , 2019, 9, 77.	1.3	4
1580	Hydrogels with enhanced protein conjugation efficiency reveal stiffness-induced YAP localization in stem cells depends on biochemical cues. <i>Biomaterials</i> , 2019, 202, 26-34.	5.7	59

#	ARTICLE	IF	CITATIONS
1581	Microcolony Size Distribution Assay Enables High-Throughput Cell Survival Quantitation. <i>Cell Reports</i> , 2019, 26, 1668-1678.e4.	2.9	7
1582	Structural basis of the target-binding mode of the G protein-coupled receptor kinase-interacting protein in the regulation of focal adhesion dynamics. <i>Journal of Biological Chemistry</i> , 2019, 294, 5827-5839.	1.6	7
1583	Tumor Microenvironment in Diffuse Large B-Cell Lymphoma: Role and Prognosis. <i>Analytical Cellular Pathology</i> , 2019, 2019, 1-9.	0.7	50
1584	Minor Chemistry Changes Alter Surface Hydration to Control Fibronectin Adsorption and Assembly into Nanofibrils. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900169.	1.3	8
1585	Titania Nanofiber Scaffolds with Enhanced Biointegration Activity—Preliminary In Vitro Studies. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5642.	1.8	12
1586	Tissue transglutaminase regulates tumor cell tensional homeostasis by increasing contractility. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	5
1587	Tensin1 expression and function in chronic obstructive pulmonary disease. <i>Scientific Reports</i> , 2019, 9, 18942.	1.6	9
1588	Protein-lipid complexes: molecular structure, current scenarios and mechanisms of cytotoxicity. <i>RSC Advances</i> , 2019, 9, 36890-36906.	1.7	7
1589	Tensile Loads on Tethered Actin Filaments Induce Accumulation of Cell Adhesion-Associated Proteins in Vitro. <i>Langmuir</i> , 2019, 35, 7443-7451.	1.6	3
1590	Signal transduction via integrin adhesion complexes. <i>Current Opinion in Cell Biology</i> , 2019, 56, 14-21.	2.6	228
1591	Real-Time Measurement of Molecular Tension during Cell Adhesion and Migration Using Multiplexed Differential Analysis of Tension Gauge Tethers. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3856-3863.	2.6	29
1592	c-Src kinase contributes on endothelial cells mechanotransduction in a heat shock protein 70-dependent turnover manner. <i>Journal of Cellular Physiology</i> , 2019, 234, 11287-11303.	2.0	9
1593	Viscoelasticity of single cells-from subcellular to cellular level. <i>Seminars in Cell and Developmental Biology</i> , 2019, 93, 2-15.	2.3	1
1594	The use of bacterial cellulose as a basement membrane improves the plausibility of the static in vitro blood-brain barrier model. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 1002-1013.	3.6	12
1595	The Fibrillin-1 RGD Integrin Binding Site Regulates Gene Expression and Cell Function through microRNAs. <i>Journal of Molecular Biology</i> , 2019, 431, 401-421.	2.0	17
1596	MicroRNA-144 suppressed TGF $\beta$ 1-induced lung cancer cell invasion and adhesion by regulating the Src-Akt-Erk pathway. <i>Cell Biology International</i> , 2020, 44, 51-61.	1.4	22
1597	Imaging Cell-Matrix Adhesions and Collective Migration of Living Cells by Electrochemiluminescence Microscopy. <i>Angewandte Chemie</i> , 2020, 132, 457-464.	1.6	45
1598	Transcriptome sequencing reveals genetic mechanisms of reproduction performance stimulated by dietary daidzein in laying breeder hens. <i>Theriogenology</i> , 2020, 142, 120-130.	0.9	6



#	ARTICLE	IF	CITATIONS
1599	Quantification of Cell-Matrix Interaction in 3D Using Optical Tweezers. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2020, , 283-310.	0.7	2
1600	ADAMTS Proteases. <i>Methods in Molecular Biology</i> , 2020, , .	0.4	8
1601	Imaging Cell-Matrix Adhesions and Collective Migration of Living Cells by Electrochemiluminescence Microscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 449-456.	7.2	142
1602	Extracellular Matrix in Secondary Palate Development. <i>Anatomical Record</i> , 2020, 303, 1543-1556.	0.8	7
1603	Recreating Physiological Environments In Vitro: Design Rules for Microfluidic-Based Vascularized Tissue Constructs. <i>Small</i> , 2020, 16, 1905055.	5.2	22
1604	Cell engineering: Biophysical regulation of the nucleus. <i>Biomaterials</i> , 2020, 234, 119743.	5.7	39
1605	Electrospun natural polymer and its composite nanofibrous scaffolds for nerve tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 519-548.	1.9	22
1606	Cadherin-based biomaterials: Inducing stem cell fate towards tissue construction and therapeutics. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 597-608.	1.8	6
1607	Biomechanical regulation of focal adhesion and invadopodia formation. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	57
1608	Implications of cellular metabolism for immune cell migration. <i>Immunology</i> , 2020, 161, 200-208.	2.0	14
1609	Cell migration regulated by RGD nanospacing and enhanced under moderate cell adhesion on biomaterials. <i>Biomaterials</i> , 2020, 263, 120327.	5.7	78
1610	Cell adherence efficacy of probiotic <i>Pediococcus pentosaceus</i> GS4 (MTCC 12683) and demonstrable role of its surface layer protein (Slp). <i>Journal of Proteomics</i> , 2020, 226, 103894.	1.2	9
1611	A glance on the role of actin in osteogenic and adipogenic differentiation of mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2020, 11, 283.	2.4	64
1612	Adhesion of a cell on a prestretched elastomer incorporating gravity effect. <i>European Journal of Mechanics, A/Solids</i> , 2020, 84, 104077.	2.1	2
1614	Effects of Mechanical Forces on Cells and Tissues. , 2020, , 717-733.		3
1615	Aqueous outflow regulation â€“ 21st century concepts. <i>Progress in Retinal and Eye Research</i> , 2021, 83, 100917.	7.3	42
1616	Time Dependency of Non-Thermal Oxygen Plasma and Ultraviolet Irradiation on Cellular Attachment and mRNA Expression of Growth Factors in Osteoblasts on Titanium and Zirconia Surfaces. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8598.	1.8	6
1617	Fluorescence-Combined Interferometric Scattering Imaging Reveals Nanoscale Dynamic Events of Single Nascent Adhesions in Living Cells. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10233-10241.	2.1	12

#	ARTICLE	IF	CITATIONS
1618	Mammary transcriptome reveals cell maintenance and protein turnover support milk synthesis in early-lactation cows. <i>Physiological Genomics</i> , 2020, 52, 435-450.	1.0	5
1619	The adaptor protein SHCA launches cancer invasion. <i>Journal of Biological Chemistry</i> , 2020, 295, 10560-10561.	1.6	4
1620	ERK5 Is Required for Tumor Growth and Maintenance Through Regulation of the Extracellular Matrix in Triple Negative Breast Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 1164.	1.3	13
1621	Mechanically induced formation and maturation of 3D-matrix adhesions (3DMAs) in human mesenchymal stem cells. <i>Biomaterials</i> , 2020, 258, 120292.	5.7	14
1622	Development of a protein microarray-based diagnostic chip mimicking the skin prick test for allergy diagnosis. <i>Scientific Reports</i> , 2020, 10, 18208.	1.6	4
1623	Integrin-Ligand Interactions in Inflammation, Cancer, and Metabolic Disease: Insights Into the Multifaceted Roles of an Emerging Ligand Irisin. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 588066.	1.8	41
1624	Methods with Nanoarchitectonics for Small Molecules and Nanostructures to Regulate Living Cells. <i>Small Methods</i> , 2020, 4, 2000500.	4.6	23
1625	Aggrecan in Cardiovascular Development and Disease. <i>Journal of Histochemistry and Cytochemistry</i> , 2020, 68, 777-795.	1.3	37
1626	Cancer-Associated Fibroblasts: Versatile Players in the Tumor Microenvironment. <i>Cancers</i> , 2020, 12, 2652.	1.7	71
1627	Development of an Improved 3D in vitro Intestinal Model to Perform Permeability Studies of Paracellular Compounds. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 524018.	2.0	19
1628	Enhanced Osteogenic Differentiation of Human Mesenchymal Stem Cells on Amine-Functionalized Titanium Using Humidified Ammonia Supplied Nonthermal Atmospheric Pressure Plasma. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6085.	1.8	10
1629	A post-invasion role for Chlamydia type III effector TarP in modulating the dynamics and organization of host cell focal adhesions. <i>Journal of Biological Chemistry</i> , 2020, 295, 14763-14779.	1.6	9
1630	Enzymatic Noncovalent Synthesis. <i>Chemical Reviews</i> , 2020, 120, 9994-10078.	23.0	143
1631	Mechanical and Physical Regulation of Fibroblast Myofibroblast Transition: From Cellular Mechanoresponse to Tissue Pathology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 609653.	2.0	107
1632	ZIF-8 Modified Polypropylene Membrane: A Biomimetic Cell Culture Platform with a View to the Improvement of Guided Bone Regeneration. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 10029-10043.	3.3	26
1633	Material-driven fibronectin assembly rescues matrix defects due to mutations in collagen IV in fibroblasts. <i>Biomaterials</i> , 2020, 252, 120090.	5.7	9
1634	Advances in the Knowledge of the Molecular Biology of Glioblastoma and Its Impact in Patient Diagnosis, Stratification, and Treatment. <i>Advanced Science</i> , 2020, 7, 1902971.	5.6	95
1635	RAP1-RAC1 Signaling Has an Important Role in Adhesion and Migration in HNSCC. <i>Journal of Dental Research</i> , 2020, 99, 959-968.	2.5	20

#	ARTICLE	IF	CITATIONS
1636	The extracellular matrix in development. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	210
1637	Humidityâ€”Triggered Relaxation of Polyelectrolyte Complexes as a Robust Approach to Generate Extracellular Matrix Biomimetic Films. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000381.	3.9	16
1638	Biological Considerations in Scaling Up Therapeutic Cell Manufacturing. <i>Frontiers in Pharmacology</i> , 2020, 11, 654.	1.6	36
1639	A nanopatterned dual reactive surface driven by block copolymer self-assembly. <i>Nanoscale</i> , 2020, 12, 7532-7537.	2.8	6
1640	Microgravity and Cell Adherence. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2214.	1.8	9
1641	The structure and biological properties of clustered anatase/rutile nanowire arrayâ€”modified titanium surface. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	1
1642	Adhesive Properties of the Hyaluronan Pericellular Coat in Hyaluronan Synthases Overexpressing Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3827.	1.8	10
1643	Cell Theranostics on Mesoporous Silicon Substrates. <i>Pharmaceutics</i> , 2020, 12, 481.	2.0	6
1644	Mindin serves as a tumour suppressor gene during colon cancer progression through MAPK/ERK signalling pathway in mice. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 8391-8404.	1.6	7
1645	Adhesion, intracellular signalling and osteogenic differentiation of mesenchymal progenitor cells and preosteoblasts on poly(epsilon)caprolactone films functionalized by peptides derived from fibronectin and/or BMP-9. <i>Materials Science and Engineering C</i> , 2020, 114, 111088.	3.8	6
1646	Intermediate filaments against actomyosin: the david and goliath of cell migration. <i>Current Opinion in Cell Biology</i> , 2020, 66, 79-88.	2.6	25
1647	Paracrine SPARC signaling dysregulates alveolar epithelial barrier integrity and function in lung fibrosis. <i>Cell Death Discovery</i> , 2020, 6, 54.	2.0	23
1648	Macroscopic and microscopic analysis of the mechanical properties and adhesion force of cells using a single cell tensile test and atomic force microscopy: Remarkable differences in cell types. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103935.	1.5	11
1649	Neuronal contact guidance and YAP signaling on ultra-small nanogratings. <i>Scientific Reports</i> , 2020, 10, 3742.	1.6	18
1650	Autophagic stress; a new cellular response to nanoparticles. Could it be a new strategy for inhibition of liver cancer cell invasion and metastasis?. <i>Nanoscale</i> , 2020, 12, 6556-6561.	2.8	9
1651	FAK-Dependent Cell Motility and Cell Elongation. <i>Cells</i> , 2020, 9, 192.	1.8	63
1652	Single-cell adhesion force kinetics of cell populations from combined label-free optical biosensor and robotic fluidic force microscopy. <i>Scientific Reports</i> , 2020, 10, 61.	1.6	61
1653	Osteocyte-Mediated Translation of Mechanical Stimuli to Cellular Signaling and Its Role in Bone and Non-bone-Related Clinical Complications. <i>Current Osteoporosis Reports</i> , 2020, 18, 67-80.	1.5	26

#	ARTICLE	IF	CITATIONS
1654	Fibronectin Bound to a Fibrous Substrate Has Chondrogenic Induction Properties. <i>Biomacromolecules</i> , 2020, 21, 1368-1378.	2.6	10
1655	DLC1 is a direct target of activated YAP/TAZ that drives collective migration and sprouting angiogenesis. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	23
1656	Stiffness and topography of biomaterials dictate cell-matrix interaction in musculoskeletal cells at the bio-interface: A concise progress review. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2426-2440.	1.6	14
1657	Decoupling the effects of nanopore size and surface roughness on the attachment, spreading and differentiation of bone marrow-derived stem cells. <i>Biomaterials</i> , 2020, 248, 120014.	5.7	57
1658	Effect of cell-extracellular matrix interaction on myogenic characteristics and artificial skeletal muscle tissue. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 98-105.	1.1	5
1659	Water-Templated, Polysaccharide-rich Bioartificial 3D Microarchitectures as Extra-Cellular Matrix Bioautomatons. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 20912-20921.	4.0	7
1660	Dendrimer Conjugation Enhances Tumor Penetration and Efficacy of Doxorubicin in Extracellular Matrix-Expressing 3D Lung Cancer Models. <i>Molecular Pharmaceutics</i> , 2020, 17, 1648-1662.	2.3	28
1661	Biomaterials functionalized with nanoclusters of integrin- and syndecan-binding ligands improve cell adhesion and mechanosensing under shear flow conditions. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 313-325.	2.1	4
1662	Reversion-inducing cysteine-rich protein with Kazal motifs and MT1-MMP promote the formation of robust fibrillin fibers. <i>Journal of Cellular Physiology</i> , 2021, 236, 1980-1995.	2.0	6
1663	Cell aggregation on nanorough surfaces. <i>Journal of Biomechanics</i> , 2021, 115, 110134.	0.9	6
1664	Actin dynamics during tumor cell dissemination. <i>International Review of Cell and Molecular Biology</i> , 2021, 360, 65-98.	1.6	17
1665	Autonomous Directional Motion of Actin-Containing Cell-Sized Droplets. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000190.	3.3	8
1666	The ginsenoside metabolite compound K stimulates glucagon-like peptide-1 secretion in NCI-H716 cells by regulating the RhoA/ROCKs/YAP signaling pathway and cytoskeleton formation. <i>Journal of Pharmacological Sciences</i> , 2021, 145, 88-96.	1.1	12
1667	Directionalities of magnetic fields and topographic scaffolds synergise to enhance MSC chondrogenesis. <i>Acta Biomaterialia</i> , 2021, 119, 169-183.	4.1	21
1668	Expression of NR5A2, NUP153, HNF4A, USP15 and FNDC3B is consistent with their use as novel biomarkers for bovine mammary stem/progenitor cells. <i>Journal of Molecular Histology</i> , 2021, 52, 289-300.	1.0	4
1669	Tissue Imaging and Quantification Relying on Endogenous Contrast. <i>Advances in Experimental Medicine and Biology</i> , 2021, 3233, 257-288.	0.8	1
1670	Cohesive cancer invasion of the biophysical barrier of smooth muscle. <i>Cancer and Metastasis Reviews</i> , 2021, 40, 205-219.	2.7	7
1671	Production of chitosan scaffolds by lyophilization or electrospinning: which is better for peripheral nerve regeneration?. <i>Neural Regeneration Research</i> , 2021, 16, 1093.	1.6	15

#	ARTICLE	IF	CITATIONS
1672	Stick around: Cellâ€“Cell Adhesion Molecules during Neocortical Development. <i>Cells</i> , 2021, 10, 118.	1.8	14
1673	Fibronectin adsorption on oxygen plasma-treated polyurethane surfaces modulates endothelial cell response. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1647-1660.	2.9	9
1674	RSU-1 interaction with prohibitin-2 links cellâ€“extracellular matrix detachment to downregulation of ERK signaling. <i>Journal of Biological Chemistry</i> , 2021, 296, 100109.	1.6	4
1675	The Prolyl Isomerase PIN1 Plays a Critical Role in Fibroblast Differentiation States to Support Pancreatic Cancer. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1677	Transgenic overexpression of ITGB6 in intestinal epithelial cells exacerbates dextran sulfate sodiumâ€“induced colitis in mice. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 2679-2690.	1.6	5
1678	The influence of the morphology of titania and hydroxyapatite on the proliferation and osteogenic differentiation of human mesenchymal stem cells. <i>RSC Advances</i> , 2021, 11, 3843-3853.	1.7	2
1679	Chapter 12. Bioinspired and Bioinstructive Surfaces to Control Mesenchymal Stem Cells. <i>RSC Soft Matter</i> , 2021, , 301-325.	0.2	0
1680	Effects of Simulated Microgravity on Ultrastructure and Apoptosis of Choroidal Vascular Endothelial Cells. <i>Frontiers in Physiology</i> , 2020, 11, 577325.	1.3	13
1681	New Sensing Technologies: Atomic Force Microscopy. , 2023, , 556-571.		1
1682	Multipoint connection by long-range density interaction and short-range distance rule. <i>Physica Scripta</i> , 2021, 96, 045004.	1.2	4
1683	Hemidesmosome-Related Keratin Filament Bundling and Nucleation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2130.	1.8	15
1684	Tensins â€“ emerging insights into their domain functions, biological roles and disease relevance. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	28
1685	A Laser-Assisted Cellular Electrophysiology Measurement System. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 163-166.	1.3	2
1687	Complex structures of Rsu1 and PINCH1 reveal a regulatory mechanism of the ILK/PINCH/Parvin complex for F-actin dynamics. <i>ELife</i> , 2021, 10, .	2.8	9
1688	Vimentin tunes cell migration on collagen by controlling $\beta$ 1 integrin activation and clustering. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	30
1689	Fibronectin as a multiregulatory molecule crucial in tumor matrisome: from structural and functional features to clinical practice in oncology. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 102.	3.5	64
1691	Biomaterial-directed cell behavior for tissue engineering. <i>Current Opinion in Biomedical Engineering</i> , 2021, 17, 100260.	1.8	27
1692	CTGF regulates cell proliferation, migration, and glucose metabolism through activation of FAK signaling in triple-negative breast cancer. <i>Oncogene</i> , 2021, 40, 2667-2681.	2.6	31

#	ARTICLE	IF	CITATIONS
1693	The genetic architecture of structural left-right asymmetry of the human brain. <i>Nature Human Behaviour</i> , 2021, 5, 1226-1239.	6.2	70
1694	A narrative review of changes in microvascular permeability after burn. <i>Annals of Translational Medicine</i> , 2021, 9, 719-719.	0.7	8
1695	Mechanistic Insight into Orthodontic Tooth Movement Based on Animal Studies: A Critical Review. <i>Journal of Clinical Medicine</i> , 2021, 10, 1733.	1.0	25
1697	Cell Force-Driven Basement Membrane Disruption Fuels EGF- and Stiffness-Induced Invasive Cell Dissemination from Benign Breast Gland Acini. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3962.	1.8	10
1698	Nano-structure of vitronectin/heparin on cell membrane for stimulating single cell in iPSC-derived embryoid body. <i>IScience</i> , 2021, 24, 102297.	1.9	2
1699	Delineating the heterogeneity of matrix-directed differentiation toward soft and stiff tissue lineages via single-cell profiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	22
1700	Bottom-up reconstitution of focal adhesion complexes. <i>FEBS Journal</i> , 2022, 289, 3360-3373.	2.2	23
1701	Focal adhesion signaling: vascular smooth muscle cell contractility beyond calcium mechanisms. <i>Clinical Science</i> , 2021, 135, 1189-1207.	1.8	15
1702	TRPV4-Rho signaling drives cytoskeletal and focal adhesion remodeling in trabecular meshwork cells. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C1013-C1030.	2.1	26
1703	Higher Integrin Alpha 3 Beta1 Expression in Papillary Thyroid Cancer Is Associated with Worst Outcome. <i>Cancers</i> , 2021, 13, 2937.	1.7	10
1704	Redox Control of Integrin-Mediated Hepatic Inflammation in Systemic Autoimmunity. <i>Antioxidants and Redox Signaling</i> , 2022, 36, 367-388.	2.5	4
1705	Hydrogels with Tunable Physical Cues and Their Emerging Roles in Studies of Cellular Mechanotransduction. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100059.	1.7	9
1706	How signaling pathways link extracellular mechano-environment to proline biosynthesis: A hypothesis. <i>BioEssays</i> , 2021, 43, 2100116.	1.2	4
1707	Development of a decellularized meniscus matrix-based nanofibrous scaffold for meniscus tissue engineering. <i>Acta Biomaterialia</i> , 2021, 128, 175-185.	4.1	20
1708	Fibrous Scaffolds From Elastin-Based Materials. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 652384.	2.0	12
1709	TRPV Protein Family-From Mechanosensing to Cancer Invasion. <i>Biomolecules</i> , 2021, 11, 1019.	1.8	36
1711	Adsorption Force of Fibronectin: A Balance Regulator to Transmission of Cell Traction Force and Fluid Shear Stress. <i>Biomacromolecules</i> , 2021, 22, 3264-3273.	2.6	5
1712	An engineered microfluidic blood-brain barrier model to evaluate the anti-metastatic activity of Î²-boswellic acid. <i>Biotechnology Journal</i> , 2021, 16, e2100044.	1.8	7

#	ARTICLE	IF	CITATIONS
1713	The biochemical composition of the actomyosin network sets the magnitude of cellular traction forces. <i>Molecular Biology of the Cell</i> , 2021, 32, 1737-1748.	0.9	8
1714	The Amot/integrin protein complex transmits mechanical forces required for vascular expansion. <i>Cell Reports</i> , 2021, 36, 109616.	2.9	13
1715	Regulatory mechanism of oral mucosal rete peg formation. <i>Journal of Molecular Histology</i> , 2021, 52, 859-868.	1.0	4
1716	High ligand density drives extensive spreading and motility on soft GelMA gels. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 054103.	1.7	5
1717	Mechanotropism of single cells adhering to elastic substrates subject to exogenous forces. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 153, 104475.	2.3	2
1718	Development of Cell-Derived Matrices for Three-Dimensional <i>In Vitro</i> Cancer Cell Models. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44108-44123.	4.0	14
1719	Actin Cytoskeleton Dynamics and Type I IFN-Mediated Immune Response: A Dangerous Liaison in Cancer?. <i>Biology</i> , 2021, 10, 913.	1.3	2
1720	The spatial form periosteal-bone complex promotes bone regeneration by coordinating macrophage polarization and osteogenic-angiogenic events. <i>Materials Today Bio</i> , 2021, 12, 100142.	2.6	13
1721	Quantifying molecular- to cellular-level forces in living cells. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 483001.	1.3	5
1722	Graph Representation Forecasting of Patient's Medical Conditions: Toward a Digital Twin. <i>Frontiers in Genetics</i> , 2021, 12, 652907.	1.1	20
1723	MITF reprograms the extracellular matrix and focal adhesion in melanoma. <i>ELife</i> , 2021, 10, .	2.8	45
1724	Cell-Cell Interaction   Focal Adhesions and Related Integrin Contacts. , 2021, , 716-721.		0
1725	Growth factor dependent changes in nanoscale architecture of focal adhesions. <i>Scientific Reports</i> , 2021, 11, 2315.	1.6	6
1727	Cytoskeleton and Cell Motility. , 2009, , 1738-1774.		5
1728	Adhesion-Induced Intracellular Mechanisms of Neurite Elongation. , 2007, , 1-24.		2
1729	Biophysical Aspects of Actin-Based Cell Motility in Fish Epithelial Keratocytes. <i>Biological and Medical Physics Series</i> , 2008, , 31-58.	0.3	9
1731	Extracellular Matrix-derived Ligand for Selective Integrin Binding to Control Cell Function. , 2009, , 133-156.		3
1732	Collagen in Cancer. , 2010, , 477-507.		2



#	ARTICLE	IF	CITATIONS
1733	Image Analysis for High-Throughput Materials Science. , 2003, , 33-56.		2
1734	Characterization of the Phospho-Adhesome by Mass Spectrometry-Based Proteomics. Methods in Molecular Biology, 2017, 1636, 235-251.	0.4	13
1735	Quantification of Extracellular Matrix Fiber Systems Related to ADAMTS Proteins. Methods in Molecular Biology, 2020, 2043, 237-250.	0.4	10
1736	Quantitative Analyses of Cell Adhesion Strength. Methods in Molecular Biology, 2007, 370, 83-95.	0.4	19
1737	Differentiation of Mouse Embryonic Stem Cells in Self-Assembling Peptide Scaffolds. Methods in Molecular Biology, 2011, 690, 217-237.	0.4	17
1738	The Role of Extracellular Matrix in Cardiac Development. , 2015, , 1-35.		23
1739	Mechanical and Matrix Regulation of Valvular Fibrosis. , 2015, , 23-53.		3
1740	Biomimetic Surfaces for Cell Engineering. Springer Series in Biomaterials Science and Engineering, 2016, , 543-569.	0.7	1
1741	Tendon and Ligament Tissue Engineering: Restoring Tendon/Ligament and Its Interfaces. , 2009, , 255-269.		4
1742	Fibronectin and Other Adhesive Glycoproteins. , 2011, , 41-75.		28
1743	Introduction: Tensegral World of Plants. Signaling and Communication in Plants, 2011, , 1-25.	0.5	4
1744	Finite Element Quantification of the Compressive Forces Induced by Keratinocyte on a Liquid Crystal Substrate. Advanced Structured Materials, 2012, , 79-99.	0.3	4
1745	Cytoskeleton and Cell Motility. , 2013, , 1-53.		4
1746	Adhesion of Cells. , 2010, , 221-240.		1
1747	Mechanical Stretch-Induced Reorganization of the Cytoskeleton and the Small GTPase Rac-1 in Cardiac Fibroblasts. , 2010, , 35-54.		1
1748	A Theoretical Study of the Thermodynamics and Kinetics of Focal Adhesion Dynamics. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 181-192.	0.1	1
1749	Chemical and Mechanical Micro-Diversity of the Extracellular Matrix. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 69-79.	0.1	3
1751	Cardiovascular Development*. , 2010, , 3-33.		1

#	ARTICLE	IF	CITATIONS
1752	Statistical Thermodynamics of Adhesion Points in Supported Membranes. Behavior Research Methods, 2011, 14, 129-155.	2.3	3
1753	Basement Membrane Regulates Fibronectin Organization Using Sliding Focal Adhesions Driven by a Contractile Winch. Developmental Cell, 2020, 52, 631-646.e4.	3.1	49
1754	Cancer associated fibroblast: Mediators of tumorigenesis. Matrix Biology, 2020, 91-92, 19-34.	1.5	31
1755	Zearalenone exposure triggered porcine granulosa cells apoptosis via microRNAs-mediated focal adhesion pathway. Toxicology Letters, 2020, 330, 80-89.	0.4	18
1756	Mechanical regulation of glycolysis via cytoskeleton architecture. Nature, 2020, 578, 621-626.	13.7	327
1757	Genetic regulators of mineral amount in Nelore cattle muscle predicted by a new co-expression and regulatory impact factor approach. Scientific Reports, 2020, 10, 8436.	1.6	10
1758	Identification of cyclins A1, E1 and vimentin as downstream targets of heme oxygenase-1 in vascular endothelial growth factor-mediated angiogenesis. Scientific Reports, 2016, 6, 29417.	1.6	18
1759	Actin polymerization downstream of integrins: signaling pathways and mechanotransduction. Biochemical Journal, 2020, 477, 1-21.	1.7	73
1760	Adhesion and growth factor receptor crosstalk mechanisms controlling cell migration. Essays in Biochemistry, 2019, 63, 553-567.	2.1	7
1762	Hemidesmosomes modulate force generation via focal adhesions. Journal of Cell Biology, 2020, 219, .	2.3	87
1772	A CD28 superagonistic antibody elicits 2 functionally distinct waves of T cell activation in rats. Journal of Clinical Investigation, 2008, 118, 1405-1416.	3.9	41
1773	Pericardin, a <i>Drosophila</i> type IV collagen-like protein is involved in the morphogenesis and maintenance of the heart epithelium during dorsal ectoderm closure. Development (Cambridge), 2002, 129, 3241-3253.	1.2	92
1774	Integrin clustering induces kinectin accumulation. Journal of Cell Science, 2002, 115, 2031-2040.	1.2	53
1775	Vinexin family (SORBS) proteins play different roles in stiffness-sensing and contractile force generation. Journal of Cell Science, 2017, 130, 3517-3531.	1.2	39
1776	Anomalous Features of EMT during Keratinocyte Transformation. PLoS ONE, 2008, 3, e1574.	1.1	41
1777	A Role for the Juxtamembrane Cytoplasm in the Molecular Dynamics of Focal Adhesions. PLoS ONE, 2009, 4, e4304.	1.1	69
1778	The Non-Equilibrium Thermodynamics and Kinetics of Focal Adhesion Dynamics. PLoS ONE, 2010, 5, e12043.	1.1	24
1779	$\alpha 5 \beta 1$ Integrin-Mediated Adhesion to Fibronectin Is Required for Axis Elongation and Somitogenesis in Mice. PLoS ONE, 2011, 6, e22002.	1.1	34

#	ARTICLE	IF	CITATIONS
1780	Differential Expression of Extracellular Matrix-Mediated Pathways in Single-Suture Craniosynostosis. PLoS ONE, 2011, 6, e26557.	1.1	34
1781	Osteopontin and Fibronectin Levels Are Decreased in Vitreous of Autoimmune Uveitis and Retinal Expression of Both Proteins Indicates ECM Re-Modeling. PLoS ONE, 2011, 6, e27674.	1.1	24
1782	Cochlin, Intraocular Pressure Regulation and Mechanosensing. PLoS ONE, 2012, 7, e34309.	1.1	36
1783	Physically-Induced Cytoskeleton Remodeling of Cells in Three-Dimensional Culture. PLoS ONE, 2012, 7, e45512.	1.1	57
1784	The Focal Adhesion: A Regulated Component of Aortic Stiffness. PLoS ONE, 2013, 8, e62461.	1.1	58
1785	Differential Effect of Actomyosin Relaxation on the Dynamic Properties of Focal Adhesion Proteins. PLoS ONE, 2013, 8, e73549.	1.1	52
1786	Can Hippocampal Neurites and Growth Cones Climb over Obstacles?. PLoS ONE, 2013, 8, e73966.	1.1	4
1787	Image Analysis for the Quantitative Comparison of Stress Fibers and Focal Adhesions. PLoS ONE, 2014, 9, e107393.	1.1	30
1788	A Molecular Smart Surface for Spatio-Temporal Studies of Cell Mobility. PLoS ONE, 2015, 10, e0118126.	1.1	13
1789	Cellular Functions and Gene and Protein Expression Profiles in Endothelial Cells Derived from Moyamoya Disease-Specific iPS Cells. PLoS ONE, 2016, 11, e0163561.	1.1	34
1790	Structure and molecular organization of dendritic spines. Histology and Histopathology, 2003, 18, 617-34.	0.5	49
1791	Thrombomodulin promotes focal adhesion kinase activation and contributes to angiogenesis by binding to fibronectin. Oncotarget, 2016, 7, 68122-68139.	0.8	21
1792	Marine guanidine alkaloids crambescidins inhibit tumor growth and activate intrinsic apoptotic signaling inducing tumor regression in a colorectal carcinoma zebrafish xenograft model. Oncotarget, 2016, 7, 83071-83087.	0.8	34
1793	Rho small GTPase regulates the stability of individual focal adhesions: a FRET-based visualization of GDP/GTP exchange on small GTPases. Biophysics (Nagoya-shi, Japan), 2007, 3, 63-73.	0.4	1
1794	Cerebral Artery Signal Transduction Mechanisms: Developmental Changes in Dynamics and Ca <sup>2+</sup> Sensitivity. Current Vascular Pharmacology, 2013, 11, 655-711.	0.8	11
1795	The Membrane-targeted Alkylphosphocholine Erufosine Interferes with Survival Signals from the Extracellular Matrix. Anti-Cancer Agents in Medicinal Chemistry, 2014, 14, 578-591.	0.9	6
1796	High-Frequency Time-Resolved Scanning Acoustic Microscopy for Biomedical Applications. Open Neuroimaging Journal, 2018, 12, 69-85.	0.2	9
1797	Simulated Microgravity Condition Alters the Gene Expression of some ECM and Adhesion Molecules in Adipose Derived Stem Cells. International Journal of Molecular and Cellular Medicine, 2018, 7, 146-157.	1.1	16

#	ARTICLE	IF	CITATIONS
1798	Properties of the amniotic membrane for potential use in tissue engineering. , 2008, 7, 88-99.		604
1799	ER-to-cell surface signalling: calreticulin and cell adhesion. Journal of Applied Biomedicine, 2004, 2, 1-14.	0.6	10
1800	Focal Adhesion: A Focal Point in Current Cell Biology and Molecular Medicine. Cell Adhesion and Migration, 2007, 1, 13-18.	1.1	68
1801	Cellular fibronectin stimulates hepatocytes to produce factors that promote alcohol-induced liver injury. World Journal of Hepatology, 2011, 3, 45.	0.8	9
1802	Transient bioimpedance monitoring of mechanotransduction in artificial tissue during indentation. Journal of Electrical Bioimpedance, 2014, 5, 55-73.	0.5	6
1803	Biomimetic Topography: Bioinspired Cell Culture Substrates and Scaffolds. , 0, , .		11
1804	Topographically and Chemically Modified Surfaces for Expansion or Differentiation of Embryonic Stem Cells. , 0, , .		1
1805	Integrin Targeted Delivery of Gene Therapeutics. Theranostics, 2011, 1, 211-219.	4.6	40
1806	Bone marrow-derived mesenchymal stem cells (MSCs) stimulate neurite outgrowth from differentiating adult hippocampal progenitor cells. Stem Cell Biology and Research, 2016, 3, 3.	0.4	7
1807	Liprins in oncogenic signaling and cancer cell adhesion. Oncogene, 2021, 40, 6406-6416.	2.6	7
1808	Advances in the proteomic profiling of the matrisome and adhesome. Expert Review of Proteomics, 2021, 18, 781-794.	1.3	16
1809	Cathepsin K Regulates Intraocular Pressure by Modulating Extracellular Matrix Remodeling and Actin-Bundling in the Trabecular Meshwork Outflow Pathway. Cells, 2021, 10, 2864.	1.8	12
1810	Morphological Dynamics of Leukemia Cells on TiO2 Nanoparticle Coatings Studied by AFM. Applied Sciences (Switzerland), 2021, 11, 9898.	1.3	0
1811	Time dependent adhesion of cells on nanorough surfaces. Journal of Biomechanics, 2021, 129, 110814.	0.9	3
1812	The Focal Adhesion: A Network of Molecular Interactions. , 2003, , 317-321.		0
1813	Focal Adhesions. , 2004, , 128-133.		1
1814	Cell Migration. , 2004, , 356-361.		2
1815	Physicochemical modulation of immobilised extracellular matrix. , 2005, , 475-509.		0

#	ARTICLE	IF	CITATIONS
1816	Polyamines and Cytoskeletal Regulation During Intestinal Epithelial Restitution. , 2006, , 349-362.		0
1817	Integrins in Extracellular Matrix Assembly. , 2006, , 28-36.		0
1818	Osteogenic Differentiation of Mouse Embryonic Stem Cells and Mouse Embryonic Fibroblasts in a Three-Dimensional Self-Assembling Peptide Scaffold. Tissue Engineering, 2006, ,	4.9	1
1819	Engineered Cell-Adhesive Nanoparticles Nucleate Extracellular Matrix Assembly. Tissue Engineering, 2007, ,	4.9	0
1821	Mechanical Forces on Cells. , 2007, , 4-1-4-18.		0
1822	â%µâ,æ²»ç™'æ©ÿæ\$«(II) â€” ç”èfžæ©ÿèf¹/²î¼Æç%¹â«ç<ç:šç¶èš¹/²ç”èfžâ@â«æ...«ã,'ä,â;fã«æ ,è³-ã™ã,«â€”. NishinhorzJournal of		0
1823	Medical Therapy for Glaucoma: The Next 20 Years. Journal of Current Glaucoma Practice, 2008, , 1-5.	0.1	1
1824	Extracellular Matrix-Mediated Drug Resistance. , 2009, , 115-135.		1
1825	GrenzflÄchenscheinungen. Springer-Lehrbuch, 2009, , 231-280.	0.1	0
1827	Universal Temporal Response of Fibroblasts Adhering on Cyclically Stretched Substrates. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 103-109.	0.1	0
1828	Fibronectin. , 2010, , 457-476.		1
1829	Cell Adhesions and Signaling: A Tool for Biocompatibility Assessment. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 1-17.	0.5	0
1830	Comparative Transcriptional Profiling and Proteomics. , 2010, , 57-76.		0
1831	Material Physical Property and Force Microenvironmental Factors. , 2010, , 169-205.		0
1834	Biointerface Technology. , 2011, , 523-546.		0
1836	Cell and Tissue Organization in Soft Materials: Insight from Mathematical and Biophysical Modelling. , 2012, , 119-134.		0
1837	Stem Cell Response to Biomaterial Topography. , 2012, , 299-326.		1
1838	Biointerface Technology. , 2013, , 611-634.		0

#	ARTICLE	IF	CITATIONS
1839	The contribution of CTGF/CCN2 and adhesion signaling to lactogenesis. Human Health Handbooks, 2013, , 165-182.	0.1	0
1840	Pulmonary Vascular Physiology and Pathophysiology. , 2014, , 1-26.		0
1841	Molecular Basis for Cell Adhesion and Adhesion-Mediated Signaling. , 0, , 121-138.		0
1842	Enteric Microbial Toxins and the Intestinal Epithelial Cytoskeleton. , 0, , 301-332.		1
1843	Bacterial Signaling to Host Cells through Adhesion Molecules and Lipid Rafts. , 0, , 139-156.		0
1845	Biological Breadboard Platform for Studies of Cellular Dynamics. , 2015, , 1-15.		0
1846	Pulmonary Vascular Physiology and Pathophysiology. , 2015, , 4057-4077.		0
1848	Biological Breadboard Platform for Studies of Cellular Dynamics. , 2016, , 293-308.		0
1849	Biointerface Technology. , 2016, , 151-183.		0
1850	Discussion and Outlook. Springer Theses, 2017, , 145-158.	0.0	0
1851	The Biocompatibility of the Scaffolds Reinforced by Fibers or Tubes for Tissue Repair. , 2017, , 145-177.		0
1855	Behandlungsgrundlagen. , 2020, , 7-56.		0
1857	Protein Interactions at Material Surfaces. , 2021, , 399-422.		1
1860	Nanoscaffolds for neural regenerative medicine. , 2020, , 47-88.		4
1861	Kindlin Signaling and Bone. , 2020, , 449-460.		0
1862	Focal Adhesion Proteins Regulate Cellâ€“Matrix and Cellâ€“Cell Adhesion and Act as Force Sensors. Biological and Medical Physics Series, 2020, , 95-140.	0.3	0
1863	Adhesive-ligand-independent cell-shaping controlled by the lateral deformability of a condensed polymer matrix. Polymer Journal, 2022, 54, 211-222.	1.3	1
1864	Novel Ion Channel Targets and Drug Delivery Tools for Controlling Glioblastoma Cell Invasiveness. International Journal of Molecular Sciences, 2021, 22, 11909.	1.8	7

#	ARTICLE	IF	CITATIONS
1865	Using Acoustic Fields to Fabricate ECM-Based Biomaterials for Regenerative Medicine Applications. , 2020, 2, 1-24.		4
1866	Influence of Electroporation on HT29 Cell Proliferation, Spreading and Adhesion Properties. Lecture Notes in Electrical Engineering, 2021, , 761-773.	0.3	0
1868	Mechanical Signaling and the Cardiac Renin-angiotensin. , 2006, , 111-127.		0
1870	Tissue Engineering â€“ Combining Cells and Biomaterials into Functional Tissues. , 2008, , 193-214.		0
1872	The contribution of CTGF/CCN2 and adhesion signaling to lactogenesis. Human Health Handbooks, 2013, , 165-182.	0.1	0
1873	Liver epithelial focal adhesion kinase modulates fibrogenesis and hedgehog signaling. JCI Insight, 2020, 5, .	2.3	10
1879	Redox regulation of ephrin/integrin cross-talk. Cell Adhesion and Migration, 2007, 1, 33-42.	1.1	11
1880	Imaging and manipulating the structural machinery of living cells on the micro- and nanoscale. International Journal of Nanomedicine, 2007, 2, 333-44.	3.3	3
1883	Gene expression profiling of craniofacial fibrous dysplasia reveals ADAMTS2 overexpression as a potential marker. International Journal of Clinical and Experimental Pathology, 2014, 7, 8532-41.	0.5	10
1884	Long term expansion profile of mesenchymal stromal cells at protein nanosheet-stabilised bioemulsions for next generation cell culture microcarriers. Materials Today Bio, 2021, 12, 100159.	2.6	21
1885	Supracellular organization confers directionality and mechanical potency to migrating pairs of cardiopharyngeal progenitor cells. ELife, 2021, 10, .	2.8	3
1886	A Layered View on Focal Adhesions. Biology, 2021, 10, 1189.	1.3	39
1888	A Brief Introduction to Some Aspects of the Fluidâ€“Mosaic Model of Cell Membrane Structure and Its Importance in Membrane Lipid Replacement. Membranes, 2021, 11, 947.	1.4	25
1889	Low Mg content on Ti-Nb-Sn alloy when in contact with eBMSCs promotes improvement of its biological functions. Journal of Materials Science: Materials in Medicine, 2021, 32, 144.	1.7	5
1890	Magnetogenetics: remote activation of cellular functions triggered by magnetic switches. Nanoscale, 2022, 14, 2091-2118.	2.8	17
1891	Complete Model of Vinculin Suggests the Mechanism of Activation by Helical Super-Bundle Unfurling. Protein Journal, 2022, 41, 55-70.	0.7	4
1892	Integrin Î±6Î²4 requires plectin and vimentin for adhesion complex distribution and invasive growth. Journal of Cell Science, 2022, 135, .	1.2	6
1893	Cell Adhesion Assessment Reveals a Higher Force per Contact Area on Fibrous Structures Compared to Flat Substrates. ACS Biomaterials Science and Engineering, 2022, 8, 649-658.	2.6	3



#	ARTICLE	IF	CITATIONS
1894	Cell and Tissue Nanomechanics: From Early Development to Carcinogenesis. <i>Biomedicines</i> , 2022, 10, 345.	1.4	3
1895	ST6Gal-IV mediated sialylation of the epidermal growth factor receptor modulates cell mechanics and enhances invasion. <i>Journal of Biological Chemistry</i> , 2022, 298, 101726.	1.6	17
1896	Tea Tree Oil and Terpinen-4-Ol Induce Cytoskeletal Reorganization of Human Melanoma Cells. <i>Planta Medica International Open</i> , 2022, 9, e34-e53.	0.3	1
1897	Development and fabrication of co-axially electrospun biomimetic periosteum with a decellularized periosteal ECM shell/PCL core structure to promote the repair of critical-sized bone defects. <i>Composites Part B: Engineering</i> , 2022, 234, 109620.	5.9	20
1899	Integrin $\alpha$ IIb $\beta$ 3 Activation and Clustering in Minimal Synthetic Cells. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	1.7	3
1900	Type VI Collagen Regulates Endochondral Ossification in the Temporomandibular Joint. <i>JBMR Plus</i> , 2022, 6, e10617.	1.3	5
1901	Mechanical Forces Govern Interactions of Host Cells with Intracellular Bacterial Pathogens. <i>Microbiology and Molecular Biology Reviews</i> , 2022, 86, e0009420.	2.9	8
1902	Talin-1 interaction network in cellular mechanotransduction (Review). <i>International Journal of Molecular Medicine</i> , 2022, 49, .	1.8	12
1903	Combining metal induced energy transfer and atomic force microscopy to probe the mechanoreponse of a focal adhesion. , 2022, , .		1
1904	OVOL2 impairs RHO GTPase signaling to restrain mitosis and aggressiveness of Anaplastic Thyroid Cancer. <i>Journal of Experimental and Clinical Cancer Research</i> , 2022, 41, 108.	3.5	6
1905	Genipin Cross-Linked Decellularized Nucleus Pulposus Hydrogel-Like Cell Delivery System Induces Differentiation of ADSCs and Retards Intervertebral Disc Degeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 807883.	2.0	14
1906	Matrix Metalloproteinases Shape the Tumor Microenvironment in Cancer Progression. <i>International Journal of Molecular Sciences</i> , 2022, 23, 146.	1.8	125
1907	Mechanisms of FA-Phagy, a New Form of Selective Autophagy/Organellophagy. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 799123.	1.8	4
1908	The uPA/uPAR system in astrocytic wound healing. <i>Neural Regeneration Research</i> , 2022, 17, 2404.	1.6	3
1910	Integrin-Mediated Adhesion Promotes Centrosome Separation in Early Mitosis. <i>Cells</i> , 2022, 11, 1360.	1.8	7
1911	Using lab-on-a-chip Technologies to Understand Cellular Mechanotransduction. , 2004, , 171-196.		1
1912	Integrin-dependent Adhesion Contacts. , 2009, , 1988-1992.		0
1937	A proteomics approach to decipher a sticky CHO situation. <i>Biotechnology and Bioengineering</i> , 2022, 119, 2064-2075.	1.7	3

#	ARTICLE	IF	CITATIONS
1938	Characterization of cell motility in single heart valve interstitial cells in vitro. <i>Histology and Histopathology</i> , 2007, 22, 873-82.	0.5	31
1940	Structural Aspects of Electrospun Scaffolds Intended for Prosthetics of Blood Vessels. <i>Polymers</i> , 2022, 14, 1698.	2.0	7
1941	Mapping Organizational Changes of Fiber-Like Structures in Disease Progression by Multiparametric, Quantitative Imaging. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	4
1942	Integrin- $\alpha$ 23 as a Therapeutic Target in Glioblastoma: Back to the Future?. <i>Pharmaceutics</i> , 2022, 14, 1053.	2.0	14
1943	Calcium wave propagation during cell extrusion. <i>Current Opinion in Cell Biology</i> , 2022, 76, 102083.	2.6	1
1944	Differential Single Cell Responses of Embryonic Stem Cells Versus Embryoid Bodies to Gravity Mechanostimulation. <i>Stem Cells and Development</i> , 2022, 31, 346-356.	1.1	1
1945	PINCH1 Promotes Fibroblast Migration in Extracellular Matrices and Influences Their Mechanophenotype. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, .	1.8	5
1946	Role of actin-binding proteins in the regulation of cellular mechanics. <i>European Journal of Cell Biology</i> , 2022, 101, 151241.	1.6	14
1947	Actomyosin contractility and buckling of microtubules in nucleation, growth and disassembling of focal adhesions. <i>Biomechanics and Modeling in Mechanobiology</i> , 2022, 21, 1187-1200.	1.4	3
1948	Transcriptional Analysis of Mice Melanoma B16-F10 Cells in Response to Directed Current Electric Fields. <i>Bioelectromagnetics</i> , 0, , .	0.9	0
1949	Polydopamine Biomaterials for Skin Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2196-2219.	2.6	26
1950	Endotoxins Induced ECM-Receptor Interaction Pathway Signal Effect on the Function of MUC2 in Caco2/HT29 Co-Culture Cells. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	6
1951	ACO:lossless quality score compression based on adaptive coding order. <i>BMC Bioinformatics</i> , 2022, 23, .	1.2	3
1952	Modulated nanowire scaffold for highly efficient differentiation of mesenchymal stem cells. <i>Journal of Nanobiotechnology</i> , 2022, 20, .	4.2	6
1953	Dynamic full-field optical coherence tomography allows live imaging of retinal pigment epithelium stress model. <i>Communications Biology</i> , 2022, 5, .	2.0	10
1954	Myeloid immune checkpoint ILT3/LILRB4/gp49B can co-tether fibronectin with integrin on macrophages. <i>International Immunology</i> , 2022, 34, 435-444.	1.8	7
1955	Aquaporins in Cancer Biology. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	25
1956	Effect of the Human Amniotic Membrane on the Umbilical Vein Endothelial Cells of Gestational Diabetic Mothers: New Insight on Inflammation and Angiogenesis. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	5

#	ARTICLE	IF	CITATIONS
1957	Photoinitiator-Free Two-Photon Polymerization of Biocompatible Materials for 3D Micro/Nanofabrication. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	7
1959	Fifty Years of the Fluid-Mosaic Model of Biomembrane Structure and Organization and Its Importance in Biomedicine with Particular Emphasis on Membrane Lipid Replacement. <i>Biomedicines</i> , 2022, 10, 1711.	1.4	12
1960	A new mechanism of fibronectin fibril assembly revealed by live imaging and super-resolution microscopy. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	8
1961	Improving hard metal implant and soft tissue integration by modulating the inflammatory-fibrous complex-response. <i>Bioactive Materials</i> , 2023, 20, 42-52.	8.6	12
1962	A bioactive material with dual integrin-targeting ligands regulates specific endogenous cell adhesion and promotes vascularized bone regeneration in adult and fetal bone defects. <i>Bioactive Materials</i> , 2023, 20, 179-193.	8.6	6
1963	Effect of Porous Zirconia Coating on Human Gingival Fibroblasts and Its Mechanism. <i>Journal of Biomedical Nanotechnology</i> , 2022, 18, 1164-1171.	0.5	0
1964	DNA-POINT: DNA Patterning of Optical Imprint for Nanomaterials Topography. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 38388-38397.	4.0	2
1965	Apoptosis and tissue thinning contribute to symmetric cell division in the developing mouse epidermis in a nonautonomous way. <i>PLoS Biology</i> , 2022, 20, e3001756.	2.6	1
1966	Cell Cycle Regulation by Integrin-Mediated Adhesion. <i>Cells</i> , 2022, 11, 2521.	1.8	18
1967	The Extracellular Matrix Environment of Clear Cell Renal Cell Carcinoma. <i>Cancers</i> , 2022, 14, 4072.	1.7	6
1968	Material Aspects of Additively Manufactured Medical Devices. , 2022, , 1-14.		0
1969	Cell Adhesion to the Extracellular Matrix. , 2022, , .		0
1970	A Luciferase Fragment Complementation Assay to Detect Focal Adhesion Kinase (FAK) Signaling Events. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1971	Process-biomimetic macromolecular materials for in vivo applications. <i>Progress in Materials Science</i> , 2023, 131, 101015.	16.0	4
1972	Role of Extracellular Matrix and Inflammation in Abdominal Aortic Aneurysm. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11078.	1.8	15
1973	Assessing the Efficacy of Whole-Body Titanium Dental Implant Surface Modifications in Inducing Adhesion, Proliferation, and Osteogenesis in Human Adipose Tissue Stem Cells. <i>Journal of Functional Biomaterials</i> , 2022, 13, 206.	1.8	2
1974	Tension Enhances the Binding Affinity of $\beta$ 1 Integrin by Clamping Talin Tightly: An Insight from Steered Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 5688-5698.	2.5	2
1975	TNS1: Emerging Insights into Its Domain Function, Biological Roles, and Tumors. <i>Biology</i> , 2022, 11, 1571.	1.3	6

#	ARTICLE	IF	CITATIONS
1976	Potential Focal Adhesion Kinase Inhibitors in Management of Cancer: Therapeutic Opportunities from Herbal Medicine. <i>International Journal of Molecular Sciences</i> , 2022, 23, 13334.	1.8	2
1977	Nanomodulation and nanotherapeutics of tumor-microenvironment. <i>OpenNano</i> , 2022, 8, 100099.	1.8	0
1978	Phenology of the transcriptome coincides with the physiology of double-crested cormorant embryonic development. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2022, 44, 101029.	0.4	0
1979	The crosstalk between macrophages and bone marrow mesenchymal stem cells in bone healing. <i>Stem Cell Research and Therapy</i> , 2022, 13, .	2.4	9
1980	Vinculin transmits high-level integrin tensions that are dispensable for focal adhesion formation. <i>Biophysical Journal</i> , 2023, 122, 156-167.	0.2	7
1983	Correlative light and electron microscopy reveals fork-shaped structures at actin entry sites of focal adhesions. <i>Biology Open</i> , 2022, 11, .	0.6	1
1984	Enzymatically dissociated muscle fibers display rapid dedifferentiation and impaired mitochondrial calcium control. <i>IScience</i> , 2022, 25, 105654.	1.9	4
1985	Senescent stroma induces nuclear deformations in cancer cells via the inhibition of RhoA/ROCK/myosin II-based cytoskeletal tension. , 2023, 2, .		5
1986	Protein kinase B (AKT) upregulation and Thy-1- $\beta$ -integrin-induced phosphorylation of Connexin43 by activated AKT in astrogliosis. <i>Journal of Neuroinflammation</i> , 2023, 20, .	3.1	5
1987	Receptor-binding domain of SARS-CoV-2 is a functional $\beta$ -integrin agonist. <i>Journal of Biological Chemistry</i> , 2023, 299, 102922.	1.6	11
1988	Cell shape and tension alter focal adhesion structure. , 2023, 145, 213277.		3
1989	Aquaporins and Ion Channels as Dual Targets in the Design of Novel Glioblastoma Therapeutics to Limit Invasiveness. <i>Cancers</i> , 2023, 15, 849.	1.7	2
1990	Performance of Liquid Crystalline Elastomers on Biological Cell Response: A Review. <i>ACS Applied Polymer Materials</i> , 2023, 5, 1076-1091.	2.0	4
1991	Role of noncoding RNAs in orthodontic tooth movement: new insights into periodontium remodeling. <i>Journal of Translational Medicine</i> , 2023, 21, .	1.8	3
1992	Understanding the interplay between cell force and cell adhesion processes. <i>Engineered Regeneration</i> , 2023, 4, 277-288.	3.0	1
1993	The Fluidâ€“Mosaic model of cell membranes: A brief introduction, historical features, some general principles, and its adaptation to current information. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2023, 1865, 184135.	1.4	7
1994	Macromolecular crowding regulates matrix composition and gene expression in human gingival fibroblast cultures. <i>Scientific Reports</i> , 2023, 13, .	1.6	4
1996	Pharmacological Inhibition of Membrane Signaling Mechanisms Reduces the Invasiveness of U87-MG and U251-MG Glioblastoma Cells In Vitro. <i>Cancers</i> , 2023, 15, 1027.	1.7	8

#	ARTICLE	IF	CITATIONS
1997	Biomimetic Convex Implant for Corneal Regeneration Through 3D Printing. <i>Advanced Science</i> , 2023, 10, .	5.6	8
1998	Nanotandem-rocket releases messenger to disrupt metabolic communication for antitumor immunotherapy. <i>Nano Research</i> , 0, , .	5.8	0
1999	Microenvironmental Stiffness Directs Chondrogenic Lineages of Stem Cells from the Human Apical Papilla <i>via</i> Cooperation between ROCK and Smad3 Signaling. <i>ACS Biomaterials Science and Engineering</i> , 2023, 9, 4831-4845.	2.6	4
2000	Next-generation biomaterials for dental pulp tissue immunomodulation. <i>Dental Materials</i> , 2023, 39, 333-349.	1.6	5
2001	Nanofabrication Technologies to Control Cell and Tissue Function in Three-Dimension. <i>Gels</i> , 2023, 9, 203.	2.1	3
2002	Mechanotransduction Impairment in Primary Fibroblast Model of Krabbe Disease. <i>Biomedicines</i> , 2023, 11, 927.	1.4	3
2003	Caveolae Mechanotransduction at the Interface between Cytoskeleton and Extracellular Matrix. <i>Cells</i> , 2023, 12, 942.	1.8	10
2006	Biphasic reinforcement of nascent adhesions by vinculin. <i>Journal of Molecular Recognition</i> , 2023, 36, .	1.1	1
2007	A luciferase fragment complementation assay to detect focal adhesion kinase (FAK) signaling events. <i>Heliyon</i> , 2023, 9, e15282.	1.4	1
2008	<i>In Vitro</i> Profiling of the Extracellular Matrix and Integrins Expressed by Human Corneal Endothelial Cells Cultured on Silk Fibroin-Based Matrices. <i>ACS Biomaterials Science and Engineering</i> , 0, , .	2.6	1
2009	Overcoming the Fibrotic Fortress in Pancreatic Ductal Adenocarcinoma: Challenges and Opportunities. <i>Cancers</i> , 2023, 15, 2354.	1.7	2
2018	Biomimetic Fibers Derived from an Equidistant Micropillar Platform Dictate Osteocyte Fate via Mechanoreception. <i>Nano Letters</i> , 2023, 23, 7950-7960.	4.5	6
2030	Lossless compression for quality scores of genomic data based on high-throughput sequencing. , 2023, , .		0
2039	Stem Cell Differentiation Mediated by Biomaterials/Surfaces. , 2023, , 307-375.		0