Cheng Dong

List of Publications by Year
in descending order

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92	3,683	147801	133252
papers	citations	31 h-index	59 g-index

94	94	94	4598
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthetic DNA for Cell Surface Engineering: Experimental Comparison between Click Conjugation and Lipid Insertion in Terms of Cell Viability, Engineering Efficiency, and Displaying Stability. ACS Applied Materials & Interfaces, 2022, 14, 3900-3909.	8.0	10
2	Genomic and experimental evidence that ALKATI does not predict single agent sensitivity to ALK inhibitors. IScience, 2021, 24, 103343.	4.1	3
3	Fibrinogen and Fibrin Differentially Regulate the Local Hydrodynamic Environment in Neutrophilâ€“Tumor Cellâ€“Endothelial Cell Adhesion System. Applied Sciences (Switzerland), 2021, 11, 79.	2.5	0
4	Phototherapy and optical waveguides for the treatment of infection. Advanced Drug Delivery Reviews, 2021, 179, 114036.	13.7	26
5	High-affinity mutant Interleukin-13 targeted CAR T cells enhance delivery of clickable biodegradable fluorescent nanoparticles to glioblastoma. Bioactive Materials, 2020, 5, 624-635.	15.6	34
6	Inâ€…Situ Synthesis of an Aptamerâ€Based Polyvalent Antibody Mimic on the Cell Surface for Enhanced Interactions between Immune and Cancer Cells. Angewandte Chemie, 2020, 132, 11990-11995.	2.0	6
7	Bone Composites: Citrateâ€Based Tanninâ€Bridged Bone Composites for Lumbar Fusion (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT	14.9	3
8	Citrateâ€Based Tanninâ€Bridged Bone Composites for Lumbar Fusion. Advanced Functional Materials, 2020, 30, 2002438.	14.9	43
9	Inâ€…Situ Synthesis of an Aptamerâ€Based Polyvalent Antibody Mimic on the Cell Surface for Enhanced Interactions between Immune and Cancer Cells. Angewandte Chemie - International Edition, 2020, 59, 11892-11897.	13.8	57
10	Development of osteopromotive poly (octamethylene citrate glycerophosphate) for enhanced bone regeneration. Acta Biomaterialia, 2019, 93, 180-191.	8.3	18
11	The critical chemical and mechanical regulation of folic acid on neural engineering. Biomaterials, 2018, 178, 504-516.	11.4	31
12	From Cancer Immunoediting to New Strategies in Cancer Immunotherapy: The Roles of Immune Cells and Mechanics in Oncology. Advances in Experimental Medicine and Biology, 2018, 1092, 113-138.	1.6	19
13	Advanced Cell and Tissue Biomanufacturing. ACS Biomaterials Science and Engineering, 2018, 4, 2292-2307.	5.2	14
14	Drug Delivery: Immune Cellâ€Mediated Biodegradable Theranostic Nanoparticles for Melanoma Targeting and Drug Delivery (Small 10/2017). Small, 2017, 13, .	10.0	0
15	VE-Cadherin Disassembly and Cell Contractility in the Endothelium are Necessary for Barrier Disruption Induced by Tumor Cells. Scientific Reports, 2017, 7, 45835.	3.3	43
16	Immune Cellâ€Mediated Biodegradable Theranostic Nanoparticles for Melanoma Targeting and Drug Delivery. Small, 2017, 13, 1603121.	10.0	63
17	The use of nanoparticulates to treat breast cancer. Nanomedicine, 2017, 12, 2367-2388.	3.3	74
18	CD82 suppresses CD44 alternative splicing-dependent melanoma metastasis by mediating U2AF2 ubiquitination and degradation. Oncogene, 2016, 35, 5056-5069.	5.9	32

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19	Mutant B-Raf(V600E) Promotes Melanoma Paracellular Transmigration by Inducing Thrombin-mediated Endothelial Junction Breakdown. Journal of Biological Chemistry, 2016, 291, 2087-2106.	3.4	10
20	Regulation of fibrin-mediated tumor cell adhesion to the endothelium using anti-thrombin aptamer. Experimental Cell Research, 2015, 339, 417-426.	2.6	6
21	A Drosera-bioinspired hydrogel for catching and killing cancer cells. Scientific Reports, 2015, 5, 14297.	3.3	24
22	C6-ceramide nanoliposome suppresses tumor metastasis by eliciting PI3K and PKCÎ¶ tumor-suppressive activities and regulating integrin affinity modulation. Scientific Reports, 2015, 5, 9275.	3.3	21
23	Cyclovirobuxine D Inhibits Cell Proliferation and Induces Mitochondria-Mediated Apoptosis in Human Gastric Cancer Cells. Molecules, 2015, 20, 20659-20668.	3.8	13
24	Localized Modeling of Biochemical and Flow Interactions during Cancer Cell Adhesion. PLoS ONE, 2015, 10, e0136926.	2.5	7
25	Lysosomal Degradation of CD44 Mediates Ceramide Nanoliposome-induced Anoikis and Diminished Extravasation in Metastatic Carcinoma Cells. Journal of Biological Chemistry, 2015, 290, 8632-8643.	3.4	14
26	3D numerical study of tumor blood perfusion and oxygen transport during vascular normalization. Applied Mathematics and Mechanics (English Edition), 2015, 36, 153-162.	3.6	1
27	Perspectives: Interplay Between Melanoma Regulated Fibrin and Receptor Mediated Adhesion Under Shear Flow. Cellular and Molecular Bioengineering, 2015, 8, 86-95.	2.1	2
28	Multi-scale biological and physical modelling of the tumour micro-environment. Drug Discovery Today: Disease Models, 2015, 16, 7-15.	1.2	1
29	RacGAP1-driven focal adhesion formation promotes melanoma transendothelial migration through mediating adherens junction disassembly. Biochemical and Biophysical Research Communications, 2015, 459, 1-9.	2.1	14
30	Design Strategies and Applications of Circulating Cell-Mediated Drug Delivery Systems. ACS Biomaterials Science and Engineering, 2015, 1, 201-217.	5.2	146
31	Aptamer-Based Polyvalent Ligands for Regulated Cell Attachment on the Hydrogel Surface. Biomacromolecules, 2015, 16, 1382-1389.	5.4	29
32	Micro-PIV measurements of the flow field around cells in flow chamber. Journal of Hydrodynamics, 2015, 27, 562-568.	3.2	3
33	Actinomyosin Contraction, Phosphorylation of VE-Cadherin, and Actin Remodeling Enable Melanoma-Induced Endothelial Cell-Cell Junction Disassembly. PLoS ONE, 2014, 9, e108092.	2.5	14
34	CD44 variant, but not standard CD44 isoforms, mediate disassembly of endothelial VEâ€cadherin junction on metastatic melanoma cells. FEBS Letters, 2014, 588, 4573-4582.	2.8	23
35	Nuclear Stiffening Inhibits Migration of Invasive Melanoma Cells. Cellular and Molecular Bioengineering, 2014, 7, 544-551.	2.1	34
36	Melanoma upregulates ICAMâ€1 expression on endothelial cells through engagement of tumor CD44 with endothelial Eâ€selectin and activation of a PKCÎ±â€“p38â€SPâ€1 pathway. FASEB Journal, 2014, 28, 4591-4609.	0.5	42

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37	A noninvasive approach to determine viscoelastic properties of an individual adherent cell under fluid flow. Journal of Biomechanics, 2014, 47, 1537-1541.	2.1	14
38	Simultaneous tracking of 3D actin and microtubule strains in individual MLO-Y4 osteocytes under oscillatory flow. Biochemical and Biophysical Research Communications, 2013, 431, 718-723.	2.1	16
39	Fibrin serves as a divalent ligand that regulates neutrophil-mediated melanoma cells adhesion to endothelium under shear conditions. American Journal of Physiology - Cell Physiology, 2012, 302, C1189-C1201.	4.6	18
40	Cellular and Molecular Bioengineering: A Tipping Point. Cellular and Molecular Bioengineering, 2012, 5, 239-253.	2.1	3
41	Study of Local Hydrodynamic Environment in Cell-Substrate Adhesion Using Side-View Î¼PIV Technology. PLoS ONE, 2012, 7, e30721.	2.5	8
42	Theoretical Analysis of Novel Quasi-3D Microscopy of Cell Deformation. Cellular and Molecular Bioengineering, 2012, 5, 165-172.	2.1	6
43	3D numerical study of tumor microenvironmental flow in response to vascular-disrupting treatments. MCB Molecular and Cellular Biomechanics, 2012, 9, 95-125.	0.7	1
44	The effect of cell shape on local hydrodynamic environment. , 2011, , .		0
45	Modeling of Cell Aggregation Dynamics Governed by Receptorâ€“Ligand Binding Under Shear Flow. Cellular and Molecular Bioengineering, 2011, 4, 427-441.	2.1	8
46	Model Simulations Reveal VCAM-1 Augment PAK Activation Rates to Amplify p38 MAPK and VE-Cadherin Phosphorylation. Cellular and Molecular Bioengineering, 2011, 4, 656-669.	2.1	4
47	Determining Î²2-Integrin and Intercellular Adhesion Molecule 1 Binding Kinetics in Tumor Cell Adhesion to Leukocytes and Endothelial Cells by a Gas-driven Micropipette Assay*. Journal of Biological Chemistry, 2011, 286, 34777-34787.	3.4	31
48	Sequential Binding of Î±vÎ²3 and ICAM-1 Determines Fibrin-Mediated Melanoma Capture and Stable Adhesion to CD11b/CD18 on Neutrophils. Journal of Immunology, 2011, 186, 242-254.	0.8	48
49	Application of Population Dynamics to Study Heterotypic Cell Aggregations in the Near-Wall Region of a Shear Flow. Cellular and Molecular Bioengineering, 2010, 3, 3-19.	2.1	9
50	Transiently Entrapped Circulating Tumor Cells Interact with Neutrophils to Facilitate Lung Metastasis Development. Cancer Research, 2010, 70, 6071-6082.	0.9	300
51	p38 MAP kinase is necessary for melanoma-mediated regulation of VE-cadherin disassembly. American Journal of Physiology - Cell Physiology, 2010, 298, C1140-C1150.	4.6	32
52	Adhesion and Signaling of Tumor Cells to Leukocytes and Endothelium in Cancer Metastasis. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2010, , 477-521.	1.0	2
53	Quasi-3D Cytoskeletal Dynamics of Osteocytes under Fluid Flow. Biophysical Journal, 2010, 99, 2812-2820.	0.5	22
54	Tumor cell extravasation mediated by leukocyte adhesion is shear rate dependent on IL-8 signaling. MCB Molecular and Cellular Biomechanics, 2010, 7, 77-91.	0.7	15

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55	Biomechanics: Cell Research and Applications for the Next Decade. Annals of Biomedical Engineering, 2009, 37, 847-859.	2.5	169
56	Systemic Analysis of Tumor Cell-Induced Endothelial Calcium Signaling and Junction Disassembly. Cellular and Molecular Bioengineering, 2009, 2, 375-385.	2.1	12
57	Single-layer planar on-chip flow cytometer using microfluidic drifting based three-dimensional (3D) hydrodynamic focusing. Lab on A Chip, 2009, 9, 1583.	6.0	185
58	The role of fibrin as a ligand for ICAM-1 and PMN in melanoma adhesion under different shear conditions.. , 2009, , .		0
59	Effects of the Tumor-Leukocyte Microenvironment on Melanomaâ€“Neutrophil Adhesion to the Endothelium in a Shear Flow. Cellular and Molecular Bioengineering, 2008, 1, 189-200.	2.1	25
60	Hydrodynamic Shear Rate Regulates Melanoma-Leukocyte Aggregation, Melanoma Adhesion to the Endothelium, and Subsequent Extravasation. Annals of Biomedical Engineering, 2008, 36, 661-671.	2.5	72
61	Integrin VLA-4 enhances sialyl-Lewis^{x/a}-negative melanoma adhesion to and extravasation through the endothelium under low flow conditions. American Journal of Physiology - Cell Physiology, 2008, 295, C701-C707.	4.6	51
62	Two-dimensional kinetics of Î²₂-integrin and ICAM-1 bindings between neutrophils and melanoma cells in a shear flow. American Journal of Physiology - Cell Physiology, 2008, 294, C743-C753.	4.6	40
63	Targeting Mutant V600E Bâ€Raf in Melanoma Interrupts Immunoediting of Leukocyte Functions and Melanoma Extravasation. FASEB Journal, 2008, 22, 1079.23.	0.5	0
64	Targeting Mutant (V600E) B-Raf in Melanoma Interrupts Immunoediting of Leukocyte Functions and Melanoma Extravasation. Cancer Research, 2007, 67, 5814-5820.	0.9	82
65	Cellular Mechanics and Biology of Tumor Cell-Leukocyte Interactions in the Near Wall Region Under Shear Flow Conditions. , 2007, , 371.		0
66	Regulation of interleukin-8 expression in melanoma-stimulated neutrophil inflammatory response. Experimental Cell Research, 2007, 313, 551-559.	2.6	71
67	Design of a Side-View Particle Imaging Velocimetry Flow System for Cell-Substrate Adhesion Studies. Journal of Biomechanical Engineering, 2006, 128, 271-278.	1.3	32
68	Targeting Mitogen-Activated Protein Kinase/Extracellular Signalâ€“Regulated Kinase Kinase in the Mutant (V600E) B-Raf Signaling Cascade Effectively Inhibits Melanoma Lung Metastases. Cancer Research, 2006, 66, 8200-8209.	0.9	108
69	Monte carlo simulation of heterotypic cell aggregation in nonlinear shear flow. Mathematical Biosciences and Engineering, 2006, 3, 683-696.	1.9	12
70	Kinetics analysis of binding between melanoma cells and neutrophils. MCB Molecular and Cellular Biomechanics, 2006, 3, 79-87.	0.7	18
71	Micromechanics of tumor cell adhesion and migration under dynamic flow conditions. Frontiers in Bioscience - Landmark, 2005, 10, 379.	3.0	25
72	Distinct role of hydrodynamic shear in leukocyte-facilitated tumor cell extravasation. American Journal of Physiology - Cell Physiology, 2005, 288, C831-C839.	4.6	79

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73	Shear stress and shear rate differentially affect the multi-step process of leukocyte-facilitated melanoma adhesion. Experimental Cell Research, 2005, 310, 282-292.	2.6	68
74	Involvement of phospholipase C signaling in melanoma cell-induced endothelial junction disassembly. Frontiers in Bioscience - Landmark, 2005, 10, 1597.	3.0	29
75	Melanoma cell extravasation under flow conditions is modulated by leukocytes and endogenously produced interleukin 8. MCB Molecular and Cellular Biomechanics, 2005, 2, 145-59.	0.7	55
76	Neutrophils influence melanoma adhesion and migration under flow conditions. International Journal of Cancer, 2003, 106, 713-722.	5.1	92
77	Melanoma cell migration to type IV collagen requires activation of NF-Î°B. Oncogene, 2003, 22, 98-108.	5.9	42
78	In Vitro Characterization and Micromechanics of Tumor Cell Chemotactic Protrusion, Locomotion, and Extravasation. Annals of Biomedical Engineering, 2002, 30, 344-355.	2.5	35
79	[Ca²⁺]_ias a potential downregulator of Î±₂Î²₁-integrin-mediated A2058 tumor cell migration to type IV collagen. American Journal of Physiology - Cell Physiology, 2001, 281, C106-C113.	4.6	18
80	Extracellular lipid-mediated signaling in tumor-cell activation and pseudopod protrusion. International Journal of Cancer, 2000, 88, 593-600.	5.1	5
81	Biomechanics of cell rolling: shear flow, cell-surface adhesion, and cell deformability. Journal of Biomechanics, 2000, 33, 35-43.	2.1	210
82	Use of Green Fluorescent Protein-Conjugated Î²-Actin as a Novel Molecular Marker for in Vitro Tumor Cell Chemotaxis Assay. Biotechnology Progress, 2000, 16, 1106-1114.	2.6	10
83	Mechanics of Leukocyte Deformation and Adhesion to Endothelium in Shear Flow. Annals of Biomedical Engineering, 1999, 27, 298-312.	2.5	142
84	Application of the Dual-Micropipet Technique to the Measurement of Tumor Cell Locomotion. Experimental Cell Research, 1999, 248, 160-171.	2.6	28
85	In VitroSide-View Imaging Technique and Analysis of Human T-Leukemic Cell Adhesion to ICAM-1 in Shear Flow. Microvascular Research, 1998, 55, 124-137.	2.5	54
86	Development of a side-view chamber for studying cell-surface adhesion under flow conditions. Annals of Biomedical Engineering, 1997, 25, 573-580.	2.5	40
87	Responses of tumor cell pseudopod protrusion to changes in medium osmolality. , 1996, 167, 156-163.		13
88	Two Phases of Pseudopod Protrusion in Tumor Cells Revealed by a Micropipette. Microvascular Research, 1994, 47, 55-67.	2.5	40
89	Leukocyte deformability: Finite element modeling of large viscoelastic deformation. Journal of Theoretical Biology, 1992, 158, 173-193.	1.7	76
90	Cytoplasmic rheology of passive neutrophils. Biorheology, 1991, 28, 557-567.	0.4	129

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91	Passive Deformations and Active Motions of Leukocytes. Journal of Biomechanical Engineering, 1990, 112, 295-302.	1.3	27
92	Passive Deformation Analysis of Human Leukocytes. Journal of Biomechanical Engineering, 1988, 110, 27-36.	1.3	170