

George A Truskey

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5690978/publications.pdf>

Version: 2024-02-01

170
papers

8,115
citations

38742

50
h-index

56724

83
g-index

239
all docs

239
docs citations

239
times ranked

8796
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Fabrication and Perfusion of Tissue-Engineered Blood Vessel Microphysiological System. <i>Methods in Molecular Biology</i> , 2022, 2375, 77-90.	0.9	3
2	Tissue engineered skeletal muscle model of rheumatoid arthritis using human primary skeletal muscle cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2022, 16, 128-139.	2.7	6
3	Principles for the design of multicellular engineered living systems. <i>APL Bioengineering</i> , 2022, 6, 010903.	6.2	17
4	Development and Application of Endothelial Cells Derived From Pluripotent Stem Cells in Microphysiological Systems Models. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 625016.	2.4	18
5	Emulating Early Atherosclerosis in a Vascular Microphysiological System Using Branched Tissue-Engineered Blood Vessels. <i>Advanced Biology</i> , 2021, 5, e2000428.	2.5	14
6	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021, 592, 195-204.	27.8	84
7	Biofabrication of tissue engineering vascular systems. <i>APL Bioengineering</i> , 2021, 5, 021507.	6.2	19
8	Differentiation and characterization of human iPSC-derived vascular endothelial cells under physiological shear stress. <i>STAR Protocols</i> , 2021, 2, 100394.	1.2	9
9	Modeling early stage atherosclerosis in a primary human vascular microphysiological system. <i>Nature Communications</i> , 2020, 11, 5426.	12.8	38
10	Application of Oxidative Stress to a Tissue-Engineered Vascular Aging Model Induces Endothelial Cell Senescence and Activation. <i>Cells</i> , 2020, 9, 1292.	4.1	12
11	Drainage Performance of a Novel Catheter Designed to Reduce Drainage Catheter Failure. <i>Journal of Clinical Interventional Radiology ISVIR</i> , 2020, 4, 09-15.	0.2	0
12	iPSC-Derived Endothelial Cells Affect Vascular Function in a Tissue-Engineered Blood Vessel Model of Hutchinson-Gilford Progeria Syndrome. <i>Stem Cell Reports</i> , 2020, 14, 325-337.	4.8	54
13	Human iPSCs Stretch to Improve Tissue-Engineered Vascular Grafts. <i>Cell Stem Cell</i> , 2020, 26, 136-137.	11.1	8
14	Glucose Uptake and Insulin Response in Tissue-engineered Human Skeletal Muscle. <i>Tissue Engineering and Regenerative Medicine</i> , 2020, 17, 801-813.	3.7	11
15	Modeling statin myopathy in a human skeletal muscle microphysiological system. <i>PLoS ONE</i> , 2020, 15, e0242422.	2.5	4
16	Vascular microphysiological systems to model diseases. <i>Cell & Gene Therapy Insights</i> , 2020, 6, 93-102.	0.1	3
17	Gene Expression Differences In Three-dimensional Myobundles Compared To Two-dimensional Myocultures. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 781-782.	0.4	0
18	Biomechanical effects on microRNA expression in skeletal muscle differentiation. <i>AIMS Bioengineering</i> , 2020, 7, 147-164.	1.1	1

#	ARTICLE	IF	CITATIONS
19	Oxygen consumption in human, tissue-engineered myobundles during basal and electrical stimulation conditions. <i>APL Bioengineering</i> , 2019, 3, 026103.	6.2	12
20	Modeling the Effect of TNF- α upon Drug-Induced Toxicity in Human, Tissue-Engineered Myobundles. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1596-1610.	2.5	6
21	Circulating mitochondria in organ donors promote allograft rejection. <i>American Journal of Transplantation</i> , 2019, 19, 1917-1929.	4.7	44
22	Abstract P284: The Chemotherapeutic Agent Docetaxel Disrupts Mitochondrial Energetics in 3D Human Bioengineered Myobundles. <i>Circulation</i> , 2019, 139, .	1.6	0
23	Effects of simulated muscle exercise on chondrocyte gene expression in a 3D-alginate bead model system. <i>Osteoarthritis and Cartilage</i> , 2018, 26, S139-S140.	1.3	0
24	Efficient transdifferentiation of human dermal fibroblasts into skeletal muscle. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e918-e936.	2.7	23
25	A cardiac patch from aligned microvessel and cardiomyocyte patches. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 546-556.	2.7	50
26	Development and application of human skeletal muscle microphysiological systems. <i>Lab on A Chip</i> , 2018, 18, 3061-3073.	6.0	18
27	Real-time observation of leukocyte-endothelium interactions in tissue-engineered blood vessel. <i>Lab on A Chip</i> , 2018, 18, 2047-2054.	6.0	28
28	Human Microphysiological Systems and Organoids as in Vitro Models for Toxicological Studies. <i>Frontiers in Public Health</i> , 2018, 6, 185.	2.7	45
29	A system to monitor statin-induced myopathy in individual engineered skeletal muscle myobundles. <i>Lab on A Chip</i> , 2018, 18, 2787-2796.	6.0	17
30	Functional Coupling of Human Microphysiology Systems: Intestine, Liver, Kidney Proximal Tubule, Blood-Brain Barrier and Skeletal Muscle. <i>Scientific Reports</i> , 2017, 7, 42296.	3.3	193
31	Human, Tissue-Engineered, Skeletal Muscle Myobundles to Measure Oxygen Uptake and Assess Mitochondrial Toxicity. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 189-199.	2.1	18
32	A Tissue Engineered Blood Vessel Model of Hutchinson-Gilford Progeria Syndrome Using Human iPSC-derived Smooth Muscle Cells. <i>Scientific Reports</i> , 2017, 7, 8168.	3.3	84
33	Hemodynamic Parameters and Early Intimal Thickening in Branching Blood Vessels. <i>Critical Reviews in Biomedical Engineering</i> , 2017, 45, 319-382.	0.9	12
34	Optimizing 3D Models of Engineered Skeletal Muscle. , 2017, , 321-350.		0
35	Advancing cardiovascular tissue engineering. <i>F1000Research</i> , 2016, 5, 1045.	1.6	19
36	Point-of-Care Rapid-Seeding Ventricular Assist Device with Blood-Derived Endothelial Cells to Create a Living Antithrombotic Coating. <i>ASAIO Journal</i> , 2016, 62, 447-453.	1.6	9

#	ARTICLE	IF	CITATIONS
37	Point-of-care seeding of nitinol stents with blood-derived endothelial cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1658-1665.	3.4	7
38	Human Vascular Microphysiological System for in vitro Drug Screening. <i>Scientific Reports</i> , 2016, 6, 21579.	3.3	78
39	Poly(Ethylene Glycol) Hydrogel Scaffolds Containing Cell-Adhesive and Protease-Sensitive Peptides Support Microvessel Formation by Endothelial Progenitor Cells. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 38-54.	2.1	67
40	Cell Density and Joint microRNA-133a and microRNA-696 Inhibition Enhance Differentiation and Contractile Function of Engineered Human Skeletal Muscle Tissues. <i>Tissue Engineering - Part A</i> , 2016, 22, 573-583.	3.1	29
41	Transdifferentiation of human endothelial progenitors into smooth muscle cells. <i>Biomaterials</i> , 2016, 85, 180-194.	11.4	39
42	Scaffold-free, Human Mesenchymal Stem Cell-Based Tissue Engineered Blood Vessels. <i>Scientific Reports</i> , 2015, 5, 15116.	3.3	84
43	Bioengineered human myobundles mimic clinical responses of skeletal muscle to drugs. <i>ELife</i> , 2015, 4, e04885.	6.0	258
44	Endothelial Cell Senescence Increases Traction Forces due to Age-Associated Changes in the Glycocalyx and SIRT1. <i>Cellular and Molecular Bioengineering</i> , 2015, 8, 63-75.	2.1	19
45	Umbilical Cord Blood-Derived Mononuclear Cells Exhibit Pericyte-Like Phenotype and Support Network Formation of Endothelial Progenitor Cells In Vitro. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2552-2568.	2.5	16
46	Increased yield of endothelial cells from peripheral blood for cell therapies and tissue engineering. <i>Regenerative Medicine</i> , 2015, 10, 447-460.	1.7	10
47	Tissue-engineered blood vessels as promising tools for testing drug toxicity. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2015, 11, 1021-1024.	3.3	20
48	CD45+ Cells Present Within Mesenchymal Stem Cell Populations Affect Network Formation of Blood-Derived Endothelial Outgrowth Cells. <i>BioResearch Open Access</i> , 2015, 4, 75-88.	2.6	11
49	Late-outgrowth endothelial progenitors from patients with coronary artery disease: Endothelialization of confluent stromal cell layers. <i>Acta Biomaterialia</i> , 2014, 10, 893-900.	8.3	10
50	Magnetoactive sponges for dynamic control of microfluidic flow patterns in microphysiological systems. <i>Lab on A Chip</i> , 2014, 14, 514-521.	6.0	27
51	Conditions that promote primary human skeletal myoblast culture and muscle differentiation in vitro. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 306, C385-C395.	4.6	55
52	Biological and engineering design considerations for vascular tissue engineered blood vessels (TEBVs). <i>Current Opinion in Chemical Engineering</i> , 2014, 3, 83-90.	7.8	40
53	Physiology and metabolism of tissue-engineered skeletal muscle. <i>Experimental Biology and Medicine</i> , 2014, 239, 1203-1214.	2.4	47
54	The Effect of Stress-Induced Senescence on Aging Human Cord Blood-Derived Endothelial Cells. <i>Cardiovascular Engineering and Technology</i> , 2013, 4, 220-230.	1.6	3

#	ARTICLE	IF	CITATIONS
55	Isolation of Functional Human Endothelial Cells from Small Volumes of Umbilical Cord Blood. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2181-2192.	2.5	17
56	Comparison of Mixed and Lamellar Coculture Spatial Arrangements for Tissue Engineering Capillary Networks<i>In Vitro</i>. <i>Tissue Engineering - Part A</i> , 2013, 19, 697-706.	3.1	9
57	Design considerations for an integrated microphysiological muscle tissue for drug and tissue toxicity testing. <i>Stem Cell Research and Therapy</i> , 2013, 4, S10.	5.5	25
58	Viscoelastic Cell Adhesion Model (VECAM). <i>Biophysical Journal</i> , 2013, 104, 319a-320a.	0.5	0
59	Endothelial Colony Forming Cells (ECFCs) As a Model for Studying Effects of Low-Dose Ionizing Radiation: Growth Inhibition by a Single Dose. <i>Cancer Investigation</i> , 2013, 31, 359-364.	1.3	14
60	Surface projections of titanium substrates increase antithrombotic endothelial function in response to shear stress. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3181-3191.	4.0	3
61	Aging Endothelial Cells Exhibit Decreased Response to Atheroprotective Shear Stress. , 2013, , .		0
62	Gleevec, an Abl Family Inhibitor, Produces a Profound Change in Cell Shape and Migration. <i>PLoS ONE</i> , 2013, 8, e52233.	2.5	15
63	Effect of cellular senescence on the albumin permeability of blood-derived endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H1374-H1383.	3.2	15
64	Dynamic quantitative microscopy and nanoscopy of red blood cells in sickle cell disease. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
65	Parallel-plate Flow Chamber and Continuous Flow Circuit to Evaluate Endothelial Progenitor Cells under Laminar Flow Shear Stress. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	31
66	Computational Fluid Dynamics Analysis to Determine Shear Stresses and Rates in a Centrifugal Left Ventricular Assist Device. <i>Artificial Organs</i> , 2012, 36, E89-96.	1.9	29
67	Leukocyte Rolling on P-Selectin: A Three-Dimensional Numerical Study of the Effect of Cytoplasmic Viscosity. <i>Biophysical Journal</i> , 2012, 102, 1757-1766.	0.5	43
68	Novel Optical Signature for Sickle Cell Trait Red Blood Cells. , 2012, , .		0
69	Minimally Invasive Iliac Crest Bone Graft Harvesting: A Design and Business Method Overview. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2011, 5, .	0.7	0
70	Autologous Endothelial Progenitor Cell-Seeding Technology and Biocompatibility Testing For Cardiovascular Devices in Large Animal Model. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	8
71	Use of autologous blood-derived endothelial progenitor cells at point-of-care to protect against implant thrombosis in a large animal model. <i>Biomaterials</i> , 2011, 32, 8356-8363.	11.4	24
72	The biocompatibility of titanium cardiovascular devices seeded with autologous blood-derived endothelial progenitor cells. <i>Biomaterials</i> , 2011, 32, 10-18.	11.4	77

#	ARTICLE	IF	CITATIONS
73	Biomechanical effects of flow and coculture on human aortic and cord blood-derived endothelial cells. <i>Journal of Biomechanics</i> , 2011, 44, 2150-2157.	2.1	25
74	Quantitative microscopy and nanoscopy of sickle red blood cells performed by wide field digital interferometry. <i>Journal of Biomedical Optics</i> , 2011, 16, 1.	2.6	137
75	Endothelial Progenitor Cells for Vascular Repair. , 2011, , 297-320.		0
76	Peptide Interfacial Biomaterials Improve Endothelial Cell Adhesion and Spreading on Synthetic Polyglycolic Acid Materials. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1965-1976.	2.5	46
77	Endothelial vascular smooth muscle cell coculture assay for high throughput screening assays to identify antiangiogenic and other therapeutic molecules. <i>International Journal of High Throughput Screening</i> , 2010, 2010, 171.	0.5	55
78	Human Umbilical Cord Blood-Derived Endothelial Cells Reendothelialize Vein Grafts and Prevent Thrombosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 2150-2155.	2.4	29
79	Effect of MicroRNA Modulation on Bioartificial Muscle Function. <i>Tissue Engineering - Part A</i> , 2010, 16, 3589-3597.	3.1	35
80	Porcine Endothelial Cells Cocultured with Smooth Muscle Cells Became Procoagulant <i>In Vitro</i> . <i>Tissue Engineering - Part A</i> , 2010, 16, 1835-1844.	3.1	6
81	Direct-contact co-culture between smooth muscle and endothelial cells inhibits TNF- α -mediated endothelial cell activation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H338-H346.	3.2	40
82	Dynamic Adhesion of Umbilical Cord Blood Endothelial Progenitor Cells under Laminar Shear Stress. <i>Biophysical Journal</i> , 2010, 99, 3545-3554.	0.5	29
83	Comparison of Endothelial Cell Phenotypic Markers of Late-Outgrowth Endothelial Progenitor Cells Isolated from Patients with Coronary Artery Disease and Healthy Volunteers. <i>Tissue Engineering - Part A</i> , 2009, 15, 3473-3486.	3.1	63
84	Characterization of Umbilical Cord Blood-Derived Late Outgrowth Endothelial Progenitor Cells Exposed to Laminar Shear Stress. <i>Tissue Engineering - Part A</i> , 2009, 15, 3575-3587.	3.1	69
85	Effect of Streptavidin RGD Mutant on the Adhesion of Endothelial Cells. <i>Biotechnology Progress</i> , 2008, 20, 566-575.	2.6	17
86	Mice Lacking Homer 1 Exhibit a Skeletal Myopathy Characterized by Abnormal Transient Receptor Potential Channel Activity. <i>Molecular and Cellular Biology</i> , 2008, 28, 2637-2647.	2.3	92
87	Effect of cyclic stretch on β 1D-integrin expression and activation of FAK and RhoA. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C2057-C2069.	4.6	72
88	Smooth muscle cell rigidity and extracellular matrix organization influence endothelial cell spreading and adhesion formation in coculture. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H1978-H1986.	3.2	28
89	Streptavidin Binding and Endothelial Cell Adhesion to Biotinylated Fibronectin. <i>Langmuir</i> , 2007, 23, 12583-12588.	3.5	17
90	Morphology and ultrastructure of differentiating three-dimensional mammalian skeletal muscle in a collagen gel. <i>Muscle and Nerve</i> , 2007, 36, 71-80.	2.2	65

#	ARTICLE	IF	CITATIONS
91	The use of mild trypsinization conditions in the detachment of endothelial cells to promote subsequent endothelialization on synthetic surfaces. <i>Biomaterials</i> , 2007, 28, 3928-3935.	11.4	86
92	Adhesion and Function of Human Endothelial Cells Co-cultured on Smooth Muscle Cells. <i>Annals of Biomedical Engineering</i> , 2007, 35, 375-386.	2.5	45
93	Flow and High Affinity Binding Affect the Elastic Modulus of the Nucleus, Cell Body and the Stress Fibers of Endothelial Cells. <i>Annals of Biomedical Engineering</i> , 2007, 35, 1120-1130.	2.5	23
94	Normal and shear stresses influence the spatial distribution of intracellular adhesion molecule-1 expression in human umbilical vein endothelial cells exposed to sudden expansion flow. <i>Journal of Biomechanics</i> , 2006, 39, 806-817.	2.1	23
95	Three-Dimensional Computational Modeling of Leukocyte Rolling and Adhesion. , 2006, , .		0
96	A system for the direct co-culture of endothelium on smooth muscle cells. <i>Biomaterials</i> , 2005, 26, 4642-4653.	11.4	71
97	In vivo performance of dual ligand augmented endothelialized expanded polytetrafluoroethylene vascular grafts. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72B, 52-63.	3.1	8
98	Mylar [®] and Teflon-AF [®] as cell culture substrates for studying endothelial cell adhesion. <i>Biomaterials</i> , 2005, 26, 6887-6896.	11.4	47
99	Effects of titanium particle size on osteoblast functions <i>in vitro</i> and <i>in vivo</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4578-4583.	7.1	99
100	Three-dimensional numerical simulation of receptor-mediated leukocyte adhesion to surfaces: Effects of cell deformability and viscoelasticity. <i>Physics of Fluids</i> , 2005, 17, 031505.	4.0	102
101	Stretch-induced nitric oxide modulates mechanical properties of skeletal muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C292-C299.	4.6	54
102	Effect of streptavidin-biotin on endothelial vasoregulation and leukocyte adhesion. <i>Biomaterials</i> , 2004, 25, 3951-3961.	11.4	13
103	Synergistic effect of shear stress and streptavidin-biotin on the expression of endothelial vasodilator and cytoskeleton genes. <i>Biotechnology and Bioengineering</i> , 2004, 88, 750-758.	3.3	5
104	Real-time theoretical compartmental model of blood-brain barrier drug delivery. , 2004, 2006, 790-6.		0
105	A 3D numerical study of the effect of channel height on leukocyte deformation and adhesion in parallel-plate flow chambers. <i>Microvascular Research</i> , 2004, 68, 188-202.	2.5	63
106	Linoleic acid increases monocyte deformation and adhesion to endothelium. <i>Atherosclerosis</i> , 2004, 177, 275-285.	0.8	15
107	Relation Between Near-Wall Residence Times of Monocytes and Early Lesion Growth in the Rabbit Aorta's Celiac Junction. <i>Annals of Biomedical Engineering</i> , 2003, 31, 53-64.	2.5	16
108	Synergistic effect of high-affinity binding and flow preconditioning on endothelial cell adhesion. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 64A, 155-163.	3.1	14

#	ARTICLE	IF	CITATIONS
109	High-affinity augmentation of endothelial cell attachment: Long-term effects on focal contact and actin filament formation. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 66A, 729-737.	3.1	19
110	Hemodynamics simulation and identification of susceptible sites of atherosclerotic lesion formation in a model abdominal aorta. <i>Journal of Biomechanics</i> , 2003, 36, 1185-1196.	2.1	100
111	Effect of streptavidin affinity mutants on the integrin-independent adhesion of biotinylated endothelial cells. <i>Biomaterials</i> , 2003, 24, 559-570.	11.4	13
112	Apparent elastic modulus and hysteresis of skeletal muscle cells throughout differentiation. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C1219-C1227.	4.6	293
113	Effect of Fluid Shear Stress on the Permeability of the Arterial Endothelium. <i>Annals of Biomedical Engineering</i> , 2002, 30, 430-446.	2.5	85
114	Factors influencing the nonuniform localization of monocytes in the arterial wall. <i>Biorheology</i> , 2002, 39, 325-9.	0.4	1
115	EFFECTS OF CHRONIC EXPOSURE TO SIMULATED MICROGRAVITY ON SKELETAL MUSCLE CELL PROLIFERATION AND DIFFERENTIATION. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2001, 37, 148.	1.5	25
116	Effect of Contact Time and Force on Monocyte Adhesion to Vascular Endothelium. <i>Biophysical Journal</i> , 2001, 80, 1722-1732.	0.5	73
117	Endothelial, cardiac muscle and skeletal muscle exhibit different viscous and elastic properties as determined by atomic force microscopy. <i>Journal of Biomechanics</i> , 2001, 34, 1545-1553.	2.1	527
118	Hemodynamic Parameters and Early Intimal Thickening in Branching Blood Vessels. <i>Critical Reviews in Biomedical Engineering</i> , 2001, 29, 1-64.	0.9	184
119	Differentiation of mammalian skeletal muscle cells cultured on microcarrier beads in a rotating cell culture system. <i>Medical and Biological Engineering and Computing</i> , 2000, 38, 583-590.	2.8	24
120	Orientation and length of mammalian skeletal myocytes in response to a unidirectional stretch. <i>Cell and Tissue Research</i> , 2000, 302, 243-251.	2.9	99
121	Atomic Force and Total Internal Reflection Fluorescence Microscopy for the Study of Force Transmission in Endothelial Cells. <i>Biophysical Journal</i> , 2000, 78, 1725-1735.	0.5	269
122	Computational Analysis of Particle-Hemodynamics and Prediction of the Onset of Arterial Diseases. , 2000, , .		5
123	Total Internal Reflection Microscopy and Atomic Force Microscopy (TIRFM-AFM) to Study Stress Transduction Mechanisms in Endothelial Cells. <i>Critical Reviews in Biomedical Engineering</i> , 2000, 28, 197-202.	0.9	22
124	Focal Increases in Vascular Cell Adhesion Molecule-1 and Intimal Macrophages at Atherosclerosis-Susceptible Sites in the Rabbit Aorta After Short-Term Cholesterol Feeding. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999, 19, 393-401.	2.4	28
125	Critical Factors in Basal Cell Adhesion Molecule/Lutheran-mediated Adhesion to Laminin. <i>Journal of Biological Chemistry</i> , 1999, 274, 728-734.	3.4	80
126	An equilibrium model of endothelial cell adhesion via integrin-dependent and integrin-independent ligands. <i>Biomaterials</i> , 1999, 20, 2395-2403.	11.4	38

#	ARTICLE	IF	CITATIONS
127	Short-Term Cell/Substrate Contact Dynamics of Subconfluent Endothelial Cells following Exposure to Laminar Flow. <i>Biotechnology Progress</i> , 1999, 15, 33-42.	2.6	18
128	Role of endothelial cell-substrate contact area and fibronectin-receptor affinity in cell adhesion to HEMA/EMA copolymers. , 1999, 47, 577-584.		12
129	Relation between non-uniform hemodynamics and sites of altered permeability and lesion growth at the rabbit aorto-celiac junction. <i>Atherosclerosis</i> , 1999, 143, 27-40.	0.8	128
130	Engineering the tissue which encapsulates subcutaneous implants. II. Plasma-tissue exchange properties. , 1998, 40, 586-597.		130
131	Engineering the tissue which encapsulates subcutaneous implants. III. Effective tissue response times. , 1998, 40, 598-605.		99
132	Fibronectin and avidin-biotin as a heterogeneous ligand system for enhanced endothelial cell adhesion. , 1998, 41, 377-385.		48
133	Application of total internal reflection fluorescence microscopy to study cell adhesion to biomaterials. <i>Biomaterials</i> , 1998, 19, 307-325.	11.4	117
134	Association between secondary flow in models of the aorto-celiac junction and subendothelial macrophages in the normal rabbit. <i>Atherosclerosis</i> , 1998, 140, 121-134.	0.8	17
135	Improving endothelial cell adhesion to vascular graft surfaces: Clinical need and strategies. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 1117-1135.	3.5	70
136	Effects of recirculating flow on U-937 cell adhesion to human umbilical vein endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 275, H591-H599.	3.2	19
137	Using avidin-mediated binding to enhance initial endothelial cell attachment and spreading. <i>Journal of Biomedical Materials Research Part B</i> , 1998, 40, 57-65.	3.1	1
138	Engineering the tissue which encapsulates subcutaneous implants. II. Plasma-tissue exchange properties. <i>Journal of Biomedical Materials Research Part B</i> , 1998, 40, 586-597.	3.1	4
139	Engineering the tissue which encapsulates subcutaneous implants. III. Effective tissue response times. <i>Journal of Biomedical Materials Research Part B</i> , 1998, 40, 598-605.	3.1	2
140	Basal cell adhesion molecule/lutheran protein. The receptor critical for sickle cell adhesion to laminin.. <i>Journal of Clinical Investigation</i> , 1998, 101, 2550-2558.	8.2	184
141	Engineering the tissue which encapsulates subcutaneous implants. I. Diffusion properties. <i>Journal of Biomedical Materials Research Part B</i> , 1997, 37, 401-412.	3.1	212
142	Engineering the tissue which encapsulates subcutaneous implants. I. Diffusion properties. <i>Journal of Biomedical Materials Research Part B</i> , 1997, 37, 401-412.	3.1	1
143	Effect of receptor-ligand affinity on the strength of endothelial cell adhesion. <i>Biophysical Journal</i> , 1996, 71, 2869-2884.	0.5	154
144	Effect of fibronectin amount and conformation on the strength of endothelial cell adhesion to HEMA/EMA copolymers. , 1996, 30, 13-22.		67

#	ARTICLE	IF	CITATIONS
145	A focal stress gradient-dependent mass transfer mechanism for atherogenesis in branching arteries. Medical Engineering and Physics, 1996, 18, 326-332.	1.7	65
146	Characterization of a Sudden Expansion Flow Chamber to Study the Response of Endothelium to Flow Recirculation. Journal of Biomechanical Engineering, 1995, 117, 203-210.	1.3	45
147	Numerical Investigation and Prediction of Atherogenic Sites in Branching Arteries. Journal of Biomechanical Engineering, 1995, 117, 350-357.	1.3	109
148	The distribution of intimal white blood cells in the normal rabbit aorta. Atherosclerosis, 1995, 115, 147-163.	0.8	54
149	Shear Stress Induces ATP-Independent Transient Nitric Oxide Release From Vascular Endothelial Cells, Measured Directly With a Porphyrinic Microsensor. Circulation Research, 1995, 77, 284-293.	4.5	176
150	Characterization of sites with elevated LDL permeability at intercostal, celiac, and iliac branches of the normal rabbit aorta.. Arteriosclerosis and Thrombosis: A Journal of Vascular Biology, 1994, 14, 313-323.	3.9	56
151	Local Conformational Changes of Vitronectin upon Adsorption on Glass and Silane Surfaces. Journal of Colloid and Interface Science, 1994, 165, 31-40.	9.4	7
152	Imaging of cell/substrate contacts on polymers by total internal reflection fluorescence microscopy. Biotechnology Progress, 1994, 10, 26-31.	2.6	8
153	Quantitative analysis of variable angle total internal reflection fluorescence microscopy (VA-TIRFM) of cell/substrate contacts. Journal of Microscopy, 1994, 173, 39-51.	1.8	72
154	A numerical analysis of forces exerted by laminar flow on spreading cells in a parallel plate flow chamber assay. Biotechnology and Bioengineering, 1993, 42, 963-973.	3.3	69
155	Effect of the conformation and orientation of adsorbed fibronectin on endothelial cell spreading and the strength of adhesion. Journal of Biomedical Materials Research Part B, 1993, 27, 1103-1113.	3.1	217
156	Relationship between 3T3 cell spreading and the strength of adhesion on glass and silane surfaces. Biomaterials, 1993, 14, 243-254.	11.4	87
157	Measurement of endothelial permeability to 125I-low density lipoproteins in rabbit arteries by use of en face preparations.. Circulation Research, 1992, 71, 883-897.	4.5	60
158	Postadsorption changes in the emission maximum of acrylodan-labeled bovine serum albumin using total internal reflection fluorescence. Journal of Colloid and Interface Science, 1992, 148, 415-424.	9.4	25
159	Altered Distribution of Mitochondria and Actin Fibers in 3T3 Cells Cultured on Microcarriers. Biotechnology Progress, 1992, 8, 572-575.	2.6	5
160	Quantitation of cell area on glass and fibronectin-coated surfaces by digital image analysis. Biotechnology Progress, 1990, 6, 513-519.	2.6	16
161	Kinetic studies and unstructured models of lymphocyte metabolism in fed-batch culture. Biotechnology and Bioengineering, 1990, 36, 797-807.	3.3	26
162	The effect of fluid shear stress upon cell adhesion to fibronectin-treated surfaces. Journal of Biomedical Materials Research Part B, 1990, 24, 1333-1353.	3.1	130

#	ARTICLE	IF	CITATIONS
163	Metabolic cooperation between vascular endothelial cells and smooth muscle cells in co-culture: changes in low density lipoprotein metabolism.. Journal of Cell Biology, 1985, 101, 871-879.	5.2	77
164	Effects of ammonium ion derived from bovine endothelial cells upon low density lipoprotein degradation in cultured vascular smooth muscle cells. Cell Biology International Reports, 1985, 9, 323-330.	0.6	5
165	Kinetic Analysis of Receptor-Mediated Endocytosis and Lysosomal Degradation in Cultured Cells. Annals of the New York Academy of Sciences, 1984, 435, 349-351.	3.8	4
166	Effect of fluid viscosity and erythrocytes on monocyte adhesion. , 0, , .		0
167	Increased numbers of bonds stabilize adhesion with multiple tethers between endothelium and monocytes. , 0, , .		0
168	The effects of the actin cytoskeleton on the transverse mechanical properties of skeletal muscle cells. , 0, , .		0
169	The effects of streptavidin-biotin exogenous ligands on the endothelium-derived nitric oxide synthase activity. , 0, , .		0
170	Integration of total internal reflection and atomic force microscopy (TIRFM-AFM) to study stress transduction mechanisms in endothelial cells. , 0, , .		0