

Keith J Gooch

List of Publications by Year in descending order

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49
papers

1,899
citations

331538

21
h-index

254106

43
g-index

50
all docs

50
docs citations

50
times ranked

2870
citing authors

#	ARTICLE	IF	CITATIONS
1	Endothelial actin and cell stiffness is modulated by substrate stiffness in 2D and 3D. <i>Journal of Biomechanics</i> , 2009, 42, 1114-1119.	0.9	202
2	Differential Effects of Growth Factors on Tissue-Engineered Cartilage. <i>Tissue Engineering</i> , 2002, 8, 73-84.	4.9	190
3	Fibers in the Extracellular Matrix Enable Long-Range Stress Transmission between Cells. <i>Biophysical Journal</i> , 2013, 104, 1410-1418.	0.2	169
4	Biomaterialâ€™microvasculature interactions. <i>Biomaterials</i> , 2000, 21, 2233-2241.	5.7	139
5	OxLDL increases endothelial stiffness, force generation, and network formation. <i>Journal of Lipid Research</i> , 2006, 47, 715-723.	2.0	90
6	Successful growth and characterization of mouse pancreatic ductal cells: functional properties of the Ki-RASG12V oncogene. <i>Gastroenterology</i> , 2004, 127, 250-260.	0.6	88
7	Shear stress and pressure modulate saphenous vein remodeling ex vivo. <i>Journal of Biomechanics</i> , 2005, 38, 1760-1769.	0.9	81
8	Exogenous, basal, and flow-induced nitric oxide production and endothelial cell proliferation. <i>Journal of Cellular Physiology</i> , 1997, 171, 252-258.	2.0	71
9	Pericellular Conditions Regulate Extent of Cell-Mediated Compaction ofâ€™Collagen Gels. <i>Biophysical Journal</i> , 2010, 99, 19-28.	0.2	60
10	oxLDL-induced decrease in lipid order of membrane domains is inversely correlated with endothelial stiffness and network formation. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C218-C229.	2.1	59
11	Lipid Rafts in Membraneâ€™Cytoskeleton Interactions and Control of Cellular Biomechanics: Actions of oxLDL. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 1519-1534.	2.5	56
12	High throughput assembly of spatially controlled 3D cell clusters on a micro/nanoplatfom. <i>Lab on A Chip</i> , 2010, 10, 775.	3.1	55
13	Direct influence of culture dimensionality on human mesenchymal stem cell differentiation at various matrix stiffnesses using a fibrous selfâ€™assembling peptide hydrogel. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2356-2368.	2.1	53
14	Biomaterial microarchitecture: a potent regulator of individual cell behavior and multicellular organization. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 640-661.	2.1	53
15	Tissue Engineering of Arteries by Directed Remodeling of Intact Arterial Segments. <i>Tissue Engineering</i> , 2003, 9, 461-472.	4.9	45
16	Independent control of matrix adhesiveness and stiffness within a 3D self-assembling peptide hydrogel. <i>Acta Biomaterialia</i> , 2018, 70, 110-119.	4.1	42
17	Mechanical properties of native and ex vivo remodeled porcine saphenous veins. <i>Journal of Biomechanics</i> , 2005, 38, 1770-1779.	0.9	38
18	The Effect of RGD Peptide on 2D and Miniaturized 3D Culture of HEPM Cells, MSCs, and ADSCs with Alginate Hydrogel. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 277-288.	1.0	28

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19	Complex Matrix Remodeling and Durotaxis Can Emerge From Simple Rules for Cell-Matrix Interaction in Agent-Based Models. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 71003.	0.6	27
20	Transmural pressure and axial loading interactively regulate arterial remodeling ex vivo. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H475-H484.	1.5	26
21	Protandim attenuates intimal hyperplasia in human saphenous veins cultured ex vivo via a catalase-dependent pathway. <i>Free Radical Biology and Medicine</i> , 2011, 50, 700-709.	1.3	23
22	Micropatterned polymer surfaces improve retention of endothelial cells exposed to flow-induced shear stress. <i>Biorheology</i> , 2006, 43, 45-55.	1.2	22
23	Effect of Extracellular Matrix and 3D Morphogenesis on Islet Hormone Gene Expression by Ngn3-Infected Mouse Pancreatic Ductal Epithelial Cells. <i>Tissue Engineering - Part A</i> , 2008, 14, 1927-1937.	1.6	21
24	Vacuum-Assisted Cell Seeding in a Microwell Cell Culture System. <i>Analytical Chemistry</i> , 2010, 82, 2380-2386.	3.2	21
25	Biomechanics and Mechanobiology of Saphenous Vein Grafts. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	21
26	Agent-Based Modeling Traction Force Mediated Compaction of Cell-Populated Collagen Gels Using Physically Realistic Fibril Mechanics. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 021024.	0.6	20
27	Î²IV-Spectrin/STAT3 complex regulates fibroblast phenotype, fibrosis, and cardiac function. <i>JCI Insight</i> , 2019, 4, .	2.3	19
28	Hemodynamic Conditions Alter Axial and Circumferential Remodeling of Arteries Engineered Ex Vivo. <i>Annals of Biomedical Engineering</i> , 2005, 33, 721-732.	1.3	18
29	Role of the cytoskeleton in the development of a hypofibrotic cardiac fibroblast phenotype in volume overload heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H596-H608.	1.5	18
30	Induced Cell Clustering Enhances Islet ² Cell Formation from Human Cultures Enriched for Pancreatic Ductal Epithelial Cells. <i>Tissue Engineering</i> , 2006, 12, 939-948.	4.9	17
31	Hemodynamics and Axial Strain Additively Increase Matrix Remodeling and MMP-9, But Not MMP-2, Expression in Arteries Engineered by Directed Remodeling. <i>Tissue Engineering - Part A</i> , 2009, 15, 1282-1290.	1.6	16
32	Salmon fibrin supports an increased number of sprouts and decreased degradation while maintaining sprout length relative to human fibrin in an in vitro angiogenesis model. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004, 15, 237-242.	1.9	15
33	Micro/nanoscale technologies for the development of hormone-expressing islet-like cell clusters. <i>Biomedical Microdevices</i> , 2012, 14, 779-789.	1.4	15
34	Vascular Mechanics in Decellularized Aortas and Coronary Resistance Microvessels in Type 2 Diabetic db/db Mice. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2760-2770.	1.3	14
35	An Agent-Based Discrete Collagen Fiber Network Model of Dynamic Traction Force-Induced Remodeling. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	13
36	Transgene Expression Level and Inherent Differences in Target Gene Activation Determine the Rate and Fate of Neurogenin3-Mediated Islet Cell Differentiation In Vitro. <i>Tissue Engineering</i> , 2007, 13, 775-788.	4.9	10

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37	Arterial Levels of Oxygen Stimulate Intimal Hyperplasia in Human Saphenous Veins via a ROS-Dependent Mechanism. PLoS ONE, 2015, 10, e0120301.	1.1	10
38	Decreased Substrate Stiffness Promotes a Hypofibrotic Phenotype in Cardiac Fibroblasts. International Journal of Molecular Sciences, 2021, 22, 6231.	1.8	8
39	Differences in Transmural Pressure and Axial Loading Ex Vivo Affect Arterial Remodeling and Material Properties. Journal of Biomechanical Engineering, 2009, 131, 101009.	0.6	5
40	Exogenous, basal, and flow-induced nitric oxide production and endothelial cell proliferation. Journal of Cellular Physiology, 1997, 171, 252-258.	2.0	5
41	Shear sensitivity in animal cell culture. Current Opinion in Biotechnology, 1993, 4, 193-196.	3.3	4
42	Arterial pO ₂ stimulates intimal hyperplasia and serum stimulates inward eutrophic remodeling in porcine saphenous veins cultured ex vivo. Biomechanics and Modeling in Mechanobiology, 2011, 10, 161-175.	1.4	4
43	Labeling of endothelial cells with magnetic microbeads by angiophagy. Biotechnology Letters, 2018, 40, 1189-1200.	1.1	3
44	Paired Pressure-Volume Loop Analysis and Biaxial Mechanical Testing Characterize Differences in Left Ventricular Tissue Stiffness of Volume Overload and Angiotensin-Induced Pressure Overload Hearts. Journal of Biomechanical Engineering, 2021, 143, .	0.6	2
45	Tissue-specific vascular remodeling and stiffness associated with metabolic diseases. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H555-H556.	1.5	1
46	Pancreatic Epithelial Cells Form Islet-Like Clusters in the Absence of Directed Migration. Cellular and Molecular Bioengineering, 2015, 8, 496-506.	1.0	1
47	A Mechanistic Motor-Clutch Model That Explains Cell Shape Dynamics to Cyclic Stretch. Molecular Biology of the Cell, 2022, , mbcE20010087.	0.9	1
48	The Passive Mechanical Environment Alters the Phenotype of Cardiac Fibroblasts. FASEB Journal, 2013, 27, 1129.15.	0.2	0
49	Production Systems. , 1997, , 147-167.		0