

Carlijn Bouten

List of Publications by Year in descending order

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Version: 2024-02-01

264
papers

13,088
citations

28274

55
h-index

30922

102
g-index

281
all docs

281
docs citations

281
times ranked

13698
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of collagen waviness and orientation in the arterial adventitia using confocal laser scanning microscopy. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 461-473.	2.8	845
2	A triaxial accelerometer and portable data processing unit for the assessment of daily physical activity. <i>IEEE Transactions on Biomedical Engineering</i> , 1997, 44, 136-147.	4.2	713
3	Design of scaffolds for blood vessel tissue engineering using a multi-layering electrospinning technique. <i>Acta Biomaterialia</i> , 2005, 1, 575-582.	8.3	406
4	The etiology of pressure ulcers: Skin deep or muscle bound?. <i>Archives of Physical Medicine and Rehabilitation</i> , 2003, 84, 616-619.	0.9	348
5	Decreased mechanical stiffness in LMNA ^{+/+} cells is caused by defective nucleo-cytoskeletal integrity: implications for the development of laminopathies. <i>Human Molecular Genetics</i> , 2004, 13, 2567-2580.	2.9	316
6	Genesis and growth of extracellular-vesicle-derived microcalcification in atherosclerotic plaques. <i>Nature Materials</i> , 2016, 15, 335-343.	27.5	298
7	Extracellular Vesicles: Potential Roles in Regenerative Medicine. <i>Frontiers in Immunology</i> , 2014, 5, 608.	4.8	263
8	Substrates for cardiovascular tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 221-241.	13.7	235
9	Daily energy expenditure through the human life course. <i>Science</i> , 2021, 373, 808-812.	12.6	234
10	Fibrin as a cell carrier in cardiovascular tissue engineering applications. <i>Biomaterials</i> , 2005, 26, 3113-3121.	11.4	232
11	In situ heart valve tissue engineering using a bioresorbable elastomeric implant – From material design to 12 months follow-up in sheep. <i>Biomaterials</i> , 2017, 125, 101-117.	11.4	231
12	Daily physical activity assessment: comparison between movement registration and doubly labeled water. <i>Journal of Applied Physiology</i> , 1996, 81, 1019-1026.	2.5	188
13	Tissue Engineering of Human Heart Valve Leaflets: A Novel Bioreactor for a Strain-Based Conditioning Approach. <i>Annals of Biomedical Engineering</i> , 2005, 33, 1778-1788.	2.5	187
14	Biomaterial-driven in situ cardiovascular tissue engineering – a multi-disciplinary perspective. <i>Npj Regenerative Medicine</i> , 2017, 2, 18.	5.2	181
15	Tailoring Fiber Diameter in Electrospun Poly(ϵ -Caprolactone) Scaffolds for Optimal Cellular Infiltration in Cardiovascular Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2009, 15, 437-444.	3.1	165
16	The Role of Collagen Cross-Links in Biomechanical Behavior of Human Aortic Heart Valve Leaflets – Relevance for Tissue Engineering. <i>Tissue Engineering</i> , 2007, 13, 1501-1511.	4.6	158
17	A computational model for collagen fibre remodelling in the arterial wall. <i>Journal of Theoretical Biology</i> , 2004, 226, 53-64.	1.7	154
18	Can Loaded Interface Characteristics Influence Strain Distributions in Muscle Adjacent to Bony Prominences?. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2003, 6, 171-180.	1.6	153

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19	Strain-dependent modulation of macrophage polarization within scaffolds. <i>Biomaterials</i> , 2014, 35, 4919-4928.	11.4	150
20	Passive transverse mechanical properties of skeletal muscle under in vivo compression. <i>Journal of Biomechanics</i> , 2001, 34, 1365-1368.	2.1	149
21	Fluorescently labeled collagen binding proteins allow specific visualization of collagen in tissues and live cell culture. <i>Analytical Biochemistry</i> , 2006, 350, 177-185.	2.4	143
22	The Relative Contributions of Compression and Hypoxia to Development of Muscle Tissue Damage: An In Vitro Study. <i>Annals of Biomedical Engineering</i> , 2007, 35, 273-284.	2.5	138
23	Autologous Human Tissue-Engineered Heart Valves: Prospects for Systemic Application. <i>Circulation</i> , 2006, 114, I-152-I-158.	1.6	130
24	Tissue engineering of heart valves: advances and current challenges. <i>Expert Review of Medical Devices</i> , 2009, 6, 259-275.	2.8	126
25	A Structural Constitutive Model For Collagenous Cardiovascular Tissues Incorporating the Angular Fiber Distribution. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 494-503.	1.3	124
26	Predicting Local Cell Deformations in Engineered Tissue Constructs: A Multilevel Finite Element Approach. <i>Journal of Biomechanical Engineering</i> , 2002, 124, 198-207.	1.3	116
27	Effects of placement and orientation of body-fixed accelerometers on the assessment of energy expenditure during walking. <i>Medical and Biological Engineering and Computing</i> , 1997, 35, 50-56.	2.8	115
28	Remodelling of the angular collagen fiber distribution in cardiovascular tissues. <i>Biomechanics and Modeling in Mechanobiology</i> , 2008, 7, 93-103.	2.8	108
29	Compression Induced Cell Damage in Engineered Muscle Tissue: An In Vitro Model to Study Pressure Ulcer Aetiology. <i>Annals of Biomedical Engineering</i> , 2003, 31, 1357-1364.	2.5	106
30	Mechanical and failure properties of single attached cells under compression. <i>Journal of Biomechanics</i> , 2005, 38, 1685-1693.	2.1	97
31	Early in-situ cellularization of a supramolecular vascular graft is modified by synthetic stromal cell-derived factor-1 β derived peptides. <i>Biomaterials</i> , 2016, 76, 187-195.	11.4	95
32	The Relevance of Large Strains in Functional Tissue Engineering of Heart Valves. <i>Thoracic and Cardiovascular Surgeon</i> , 2003, 51, 78-83.	1.0	93
33	Compressive Deformation and Damage of Muscle Cell Subpopulations in a Model System. <i>Annals of Biomedical Engineering</i> , 2001, 29, 153-163.	2.5	92
34	<i>In Situ</i> Tissue Engineering of Functional Small-Diameter Blood Vessels by Host Circulating Cells Only. <i>Tissue Engineering - Part A</i> , 2015, 21, 2583-2594.	3.1	92
35	Temporal differences in the influence of ischemic factors and deformation on the metabolism of engineered skeletal muscle. <i>Journal of Applied Physiology</i> , 2007, 103, 464-473.	2.5	91
36	Remodelling of continuously distributed collagen fibres in soft connective tissues. <i>Journal of Biomechanics</i> , 2003, 36, 1151-1158.	2.1	90

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37	Computational Analyses of Mechanically Induced Collagen Fiber Remodeling in the Aortic Heart Valve. <i>Journal of Biomechanical Engineering</i> , 2003, 125, 549-557.	1.3	89
38	High resolution imaging of collagen organisation and synthesis using a versatile collagen specific probe. <i>Journal of Structural Biology</i> , 2007, 159, 392-399.	2.8	89
39	Macrophage-Driven Biomaterial Degradation Depends on Scaffold Microarchitecture. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 87.	4.1	89
40	A biomimetic microfluidic model to study signalling between endothelial and vascular smooth muscle cells under hemodynamic conditions. <i>Lab on A Chip</i> , 2018, 18, 1607-1620.	6.0	88
41	Selective regulation of Notch ligands during angiogenesis is mediated by vimentin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4574-E4581.	7.1	86
42	Colorful Protein-Based Fluorescent Probes for Collagen Imaging. <i>PLoS ONE</i> , 2014, 9, e114983.	2.5	86
43	Modeling the mechanics of tissue-engineered human heart valve leaflets. <i>Journal of Biomechanics</i> , 2007, 40, 325-334.	2.1	84
44	Engineering a 3D-Bioprinted Model of Human Heart Valve Disease Using Nanoindentation-Based Biomechanics. <i>Nanomaterials</i> , 2018, 8, 296.	4.1	81
45	Modeling collagen remodeling. <i>Journal of Biomechanics</i> , 2010, 43, 166-175.	2.1	75
46	Improved Prediction of the Collagen Fiber Architecture in the Aortic Heart Valve. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 329-336.	1.3	72
47	Heading in the Right Direction: Understanding Cellular Orientation Responses to Complex Biophysical Environments. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 12-37.	2.1	71
48	Effect of Strain Magnitude on the Tissue Properties of Engineered Cardiovascular Constructs. <i>Annals of Biomedical Engineering</i> , 2008, 36, 244-253.	2.5	68
49	Hydrolytic and oxidative degradation of electrospun supramolecular biomaterials: In vitro degradation pathways. <i>Acta Biomaterialia</i> , 2015, 27, 21-31.	8.3	68
50	Quantification of the Temporal Evolution of Collagen Orientation in Mechanically Conditioned Engineered Cardiovascular Tissues. <i>Annals of Biomedical Engineering</i> , 2009, 37, 1263-1272.	2.5	67
51	Modulation of macrophage phenotype and protein secretion via heparin-IL-4 functionalized supramolecular elastomers. <i>Acta Biomaterialia</i> , 2018, 71, 247-260.	8.3	65
52	Annexin A1-dependent tethering promotes extracellular vesicle aggregation revealed with single-extracellular vesicle analysis. <i>Science Advances</i> , 2020, 6, .	10.3	65
53	How to Make a Heart Valve: From Embryonic Development to Bioengineering of Living Valve Substitutes. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2014, 4, a013912-a013912.	6.2	63
54	Cell-Perceived Substrate Curvature Dynamically Coordinates the Direction, Speed, and Persistence of Stromal Cell Migration. <i>Advanced Biology</i> , 2019, 3, e1900080.	3.0	63

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55	Vimentin regulates Notch signaling strength and arterial remodeling in response to hemodynamic stress. <i>Scientific Reports</i> , 2019, 9, 12415.	3.3	62
56	A standard calculation methodology for human doubly labeled water studies. <i>Cell Reports Medicine</i> , 2021, 2, 100203.	6.5	62
57	Mechanical characterization of anisotropic planar biological soft tissues using finite indentation: Experimental feasibility. <i>Journal of Biomechanics</i> , 2008, 41, 422-429.	2.1	59
58	Soft substrates normalize nuclear morphology and prevent nuclear rupture in fibroblasts from a laminopathy patient with compound heterozygous LMNA mutations. <i>Nucleus</i> , 2013, 4, 61-73.	2.2	58
59	Discoidin Domain Receptor-1 Regulates Calcific Extracellular Vesicle Release in Vascular Smooth Muscle Cell Fibrocalcific Response via Transforming Growth Factor- β 2 Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 525-533.	2.4	58
60	Microfabricated tuneable and transferable porous PDMS membranes for Organs-on-Chips. <i>Scientific Reports</i> , 2018, 8, 13524.	3.3	58
61	Intermittent Straining Accelerates the Development of Tissue Properties in Engineered Heart Valve Tissue. <i>Tissue Engineering - Part A</i> , 2009, 15, 999-1008.	3.1	56
62	Quantification and localisation of damage in rat muscles after controlled loading; a new approach to study the aetiology of pressure sores. <i>Medical Engineering and Physics</i> , 2001, 23, 195-200.	1.7	54
63	Computational model predicts cell orientation in response to a range of mechanical stimuli. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 227-236.	2.8	54
64	Mesoscale substrate curvature overrules nanoscale contact guidance to direct bone marrow stromal cell migration. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180162.	3.4	53
65	Mechanosensitivity of Jagged-1 Notch signaling can induce a switch-type behavior in vascular homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3682-E3691.	7.1	51
66	Polymer-based Scaffold Designs For In Situ Vascular Tissue Engineering: Controlling Recruitment and Differentiation Behavior of Endothelial Colony Forming Cells. <i>Macromolecular Bioscience</i> , 2012, 12, 577-590.	4.1	50
67	Strain-induced Collagen Organization at the Micro-level in Fibrin-based Engineered Tissue Constructs. <i>Annals of Biomedical Engineering</i> , 2013, 41, 763-774.	2.5	50
68	Cellular Geometry Sensing at Different Length Scales and its Implications for Scaffold Design. <i>Materials</i> , 2020, 13, 963.	2.9	50
69	Viscoelastic Properties of Single Attached Cells Under Compression. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 237-243.	1.3	49
70	Differential Response of Endothelial and Endothelial Colony Forming Cells on Electrospun Scaffolds with Distinct Microfiber Diameters. <i>Biomacromolecules</i> , 2014, 15, 821-829.	5.4	49
71	Decoupling the Effect of Shear Stress and Stretch on Tissue Growth and Remodeling in a Vascular Graft. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 418-429.	2.1	48
72	Entropic Forces Drive Cellular Contact Guidance. <i>Biophysical Journal</i> , 2019, 116, 1994-2008.	0.5	48

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73	Age-Dependent Changes in Geometry, Tissue Composition and Mechanical Properties of Fetal to Adult Cryopreserved Human Heart Valves. <i>PLoS ONE</i> , 2016, 11, e0149020.	2.5	48
74	Stress related collagen ultrastructure in human aortic valves—implications for tissue engineering. <i>Journal of Biomechanics</i> , 2008, 41, 2612-2617.	2.1	47
75	A comparative analysis of the collagen architecture in the carotid artery: Second harmonic generation versus diffusion tensor imaging. <i>Biochemical and Biophysical Research Communications</i> , 2012, 426, 54-58.	2.1	47
76	Development of Non-Cell Adhesive Vascular Grafts Using Supramolecular Building Blocks. <i>Macromolecular Bioscience</i> , 2016, 16, 350-362.	4.1	47
77	Age-dependent changes of stress and strain in the human heart valve and their relation with collagen remodeling. <i>Acta Biomaterialia</i> , 2016, 29, 161-169.	8.3	47
78	Matrix production and remodeling capacity of cardiomyocyte progenitor cells during in vitro differentiation. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 497-508.	1.9	45
79	Can We Grow Valves Inside the Heart? Perspective on Material-based In Situ Heart Valve Tissue Engineering. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 54.	2.4	45
80	Hemodynamic loads distinctively impact the secretory profile of biomaterial-activated macrophages – implications for in situ vascular tissue engineering. <i>Biomaterials Science</i> , 2020, 8, 132-147.	5.4	45
81	Physical activity assessment: Comparison between movement registration and doubly labeled water method. <i>European Journal of Nutrition</i> , 1997, 36, 263-267.	4.6	44
82	Cytokine and chemokine release upon prolonged mechanical loading of the epidermis. <i>Experimental Dermatology</i> , 2007, 16, 567-573.	2.9	44
83	The Influence of Serum-Free Culture Conditions on Skeletal Muscle Differentiation in a Tissue-Engineered Model. <i>Tissue Engineering - Part A</i> , 2008, 14, 161-171.	3.1	44
84	The influence of matrix (an)isotropy on cardiomyocyte contraction in engineered cardiac microtissues. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 422-429.	1.3	44
85	Monitoring the biomechanical response of individual cells under compression: A new compression device. <i>Medical and Biological Engineering and Computing</i> , 2003, 41, 498-503.	2.8	43
86	A Theoretical Analysis of Damage Evolution in Skeletal Muscle Tissue With Reference to Pressure Ulcer Development. <i>Journal of Biomechanical Engineering</i> , 2003, 125, 902-909.	1.3	43
87	Layer-specific cell differentiation in bi-layered vascular grafts under flow perfusion. <i>Biofabrication</i> , 2020, 12, 015009.	7.1	43
88	Inertial Shear Forces and the Use of Centrifuges in Gravity Research. What is the Proper Control?. <i>Journal of Biomechanical Engineering</i> , 2003, 125, 342-346.	1.3	42
89	Hypoxia Induces Near-Native Mechanical Properties in Engineered Heart Valve Tissue. <i>Circulation</i> , 2009, 119, 290-297.	1.6	42
90	Vascular Mechanobiology: Towards Control of In Situ Regeneration. <i>Cells</i> , 2017, 6, 19.	4.1	42

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91	Body mass index and daily physical activity in anorexia nervosa. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 967-973.	0.4	42
92	Tissue engineering meets immunoengineering: Prospective on personalized in situ tissue engineering strategies. <i>Current Opinion in Biomedical Engineering</i> , 2018, 6, 17-26.	3.4	41
93	Aerobic Work Capacity in Elite Wheelchair Athletes. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2002, 81, 261-271.	1.4	40
94	Finite Element Model of Mechanically Induced Collagen Fiber Synthesis and Degradation in the Aortic Valve. <i>Annals of Biomedical Engineering</i> , 2003, 31, 1040-1053.	2.5	40
95	Combining tissue repair and tissue engineering; bioactivating implantable cell-free vascular scaffolds. <i>Heart</i> , 2014, 100, 1825-1830.	2.9	39
96	Cardiac Progenitor Cells and the Interplay with Their Microenvironment. <i>Stem Cells International</i> , 2017, 2017, 1-20.	2.5	39
97	Monitoring Local Cell Viability in Engineered Tissues: A Fast, Quantitative, and Nondestructive Approach. <i>Tissue Engineering</i> , 2003, 9, 269-281.	4.6	38
98	Mimicking Cardiac Fibrosis in a Dish: Fibroblast Density Rather than Collagen Density Weakens Cardiomyocyte Function. <i>Journal of Cardiovascular Translational Research</i> , 2017, 10, 116-127.	2.4	38
99	InÂSitu Remodeling Overrides Bioinspired Scaffold Architecture of Supramolecular Elastomeric Tissue-Engineered Heart Valves. <i>JACC Basic To Translational Science</i> , 2020, 5, 1187-1206.	4.1	38
100	Mechanical Characterization of Anisotropic Planar Biological Soft Tissues Using Large Indentation: A Computational Feasibility Study. <i>Journal of Biomechanical Engineering</i> , 2005, 128, 428.	1.3	36
101	Tissue-Engineered Heart Valves Develop Native-like Collagen Fiber Architecture. <i>Tissue Engineering - Part A</i> , 2010, 16, 1527-1537.	3.1	36
102	Synergistic protein secretion by mesenchymal stromal cells seeded in 3D scaffolds and circulating leukocytes in physiological flow. <i>Biomaterials</i> , 2014, 35, 9100-9113.	11.4	36
103	Robust Generation of Quiescent Porcine Valvular Interstitial Cell Cultures. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	36
104	Cellular Contact Guidance Emerges from Gap Avoidance. <i>Cell Reports Physical Science</i> , 2020, 1, 100055.	5.6	36
105	In vitro models to study compressive strain-induced muscle cell damage. <i>Biorheology</i> , 2003, 40, 383-8.	0.4	36
106	Quantifying pressure sore-related muscle damage using high-resolution MRI. <i>Journal of Applied Physiology</i> , 2003, 95, 2235-2240.	2.5	35
107	The Patterning and Alignment of Muscle Cells Using the Selective Adhesion of Poly(oligoethylene) Tj ETQq1 1 0.784314 rgBT /Overlo 2324-2329.	21.0	35
108	Shear flow affects selective monocyte recruitment into <scp>MCP</scp>â€loaded scaffolds. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 2176-2188.	3.6	35

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109	Modulation of collagen fiber orientation by strain-controlled enzymatic degradation. <i>Acta Biomaterialia</i> , 2016, 35, 118-126.	8.3	35
110	Influence of substrate stiffness on circulating progenitor cell fate. <i>Journal of Biomechanics</i> , 2012, 45, 736-744.	2.1	34
111	In situ heart valve tissue engineering: simple devices, smart materials, complex knowledge. <i>Expert Review of Medical Devices</i> , 2012, 9, 453-455.	2.8	34
112	<i>In Vivo</i> Collagen Remodeling in the Vascular Wall of Decellularized Stented Tissue-Engineered Heart Valves. <i>Tissue Engineering - Part A</i> , 2015, 21, 2206-2215.	3.1	33
113	The Evolution of Collagen Fiber Orientation in Engineered Cardiovascular Tissues Visualized by Diffusion Tensor Imaging. <i>PLoS ONE</i> , 2015, 10, e0127847.	2.5	33
114	Failure of decellularized porcine small intestinal submucosa as a heart valved conduit. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 160, e201-e215.	0.8	33
115	Controlling matrix formation and cross-linking by hypoxia in cardiovascular tissue engineering. <i>Journal of Applied Physiology</i> , 2010, 109, 1483-1491.	2.5	32
116	Differential Leaflet Remodeling of Bone Marrow Cell Pre-Seeded Versus Nonseeded Bioresorbable Transcatheter Pulmonary Valve Replacements. <i>JACC Basic To Translational Science</i> , 2020, 5, 15-31.	4.1	32
117	Effect of biomimetic conditions on mechanical and structural integrity of PGA/P4HB and electrospun PCL scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 1137-1144.	3.6	31
118	Translating Autologous Heart Valve Tissue Engineering from Bench to Bed. <i>Tissue Engineering - Part B: Reviews</i> , 2009, 15, 307-317.	4.8	31
119	Competition between cap and basal actin fiber orientation in cells subjected to contact guidance and cyclic strain. <i>Scientific Reports</i> , 2015, 5, 8752.	3.3	31
120	Anisotropic, Three-Dimensional Deformation of Single Attached Cells Under Compression. <i>Annals of Biomedical Engineering</i> , 2004, 32, 1443-1452.	2.5	29
121	Immuno-regenerative biomaterials for in situ cardiovascular tissue engineering – Do patient characteristics warrant precision engineering?. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113960.	13.7	29
122	Energy expenditure and physical activity in subjects consuming full- or reduced-fat products as part of their normal diet. <i>British Journal of Nutrition</i> , 1996, 76, 785-795.	2.3	28
123	Myocardial Disease and Long-Distance Space Travel: Solving the Radiation Problem. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 631985.	2.4	28
124	Current Challenges in Translating Tissue-Engineered Heart Valves. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2017, 19, 71.	0.9	27
125	Anti-fibrotic Effects of Cardiac Progenitor Cells in a 3D-Model of Human Cardiac Fibrosis. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 52.	2.4	27
126	Review article: Tissue engineering of semilunar heart valves: current status and future developments. <i>Journal of Heart Valve Disease</i> , 2004, 13, 272-80.	0.5	27

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127	Evaluation of a Continuous Quantification Method of Apoptosis and Necrosis in Tissue Cultures. <i>Cytotechnology</i> , 2004, 46, 139-150.	1.6	25
128	Increased Cardiac Myocyte PDE5 Levels in Human and Murine Pressure Overload Hypertrophy Contribute to Adverse LV Remodeling. <i>PLoS ONE</i> , 2013, 8, e58841.	2.5	25
129	The degradation and performance of electrospun supramolecular vascular scaffolds examined upon in vitro enzymatic exposure. <i>Acta Biomaterialia</i> , 2019, 92, 48-59.	8.3	25
130	Cyclic Strain Affects Macrophage Cytokine Secretion and Extracellular Matrix Turnover in Electrospun Scaffolds. <i>Tissue Engineering - Part A</i> , 2019, 25, 1310-1325.	3.1	25
131	Behavior of CMPCs in unidirectional constrained and stress-free 3D hydrogels. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 87, 79-91.	1.9	24
132	Host Response and Neo-Tissue Development during Resorption of a Fast Degrading Supramolecular Electrospun Arterial Scaffold. <i>Bioengineering</i> , 2018, 5, 61.	3.5	24
133	Engineering Skeletal Muscle Tissues from Murine Myoblast Progenitor Cells and Application of Electrical Stimulation. <i>Journal of Visualized Experiments</i> , 2013, , e4267.	0.3	23
134	Shear stress induces expression, intracellular reorganization and enhanced Notch activation potential of Jagged1. <i>Integrative Biology (United Kingdom)</i> , 2018, 10, 719-726.	1.3	23
135	An automated quantitative analysis of cell, nucleus and focal adhesion morphology. <i>PLoS ONE</i> , 2018, 13, e0195201.	2.5	23
136	Human In Vitro Model Mimicking Material-Driven Vascular Regeneration Reveals How Cyclic Stretch and Shear Stress Differentially Modulate Inflammation and Matrix Deposition. <i>Advanced Biology</i> , 2020, 4, e1900249.	3.0	23
137	Bioprinting of kidney <i>in vitro</i> models: cells, biomaterials, and manufacturing techniques. <i>Essays in Biochemistry</i> , 2021, 65, 587-602.	4.7	23
138	What Is the Potential of Tissue-Engineered Pulmonary Valves in Children?. <i>Annals of Thoracic Surgery</i> , 2019, 107, 1845-1853.	1.3	22
139	Physical activity and fat-free mass during growth and in later life. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 1583-1589.	4.7	22
140	Straining Mode-Dependent Collagen Remodeling in Engineered Cardiovascular Tissue. <i>Tissue Engineering - Part A</i> , 2009, 15, 841-849.	3.1	21
141	Environmental regulation of valvulogenesis: implications for tissue engineering. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 39, 8-17.	1.4	21
142	Degree of Scaffold Degradation Influences Collagen (re)Orientation in Engineered Tissues. <i>Tissue Engineering - Part A</i> , 2014, 20, 1747-1757.	3.1	21
143	Cardiomyocyte progenitor cell mechanoresponse unrevealed: strain avoidance and mechanosome development. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 991-1001.	1.3	21
144	<i>In Vitro</i> Methods to Model Cardiac Mechanobiology in Health and Disease. <i>Tissue Engineering - Part C: Methods</i> , 2021, 27, 139-151.	2.1	21

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145	Mechanical Properties of Bioengineered Corneal Stroma. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100972.	7.6	21
146	An in vitro Model System to Study the Damaging Effects of Prolonged Mechanical Loading of the Epidermis. <i>Annals of Biomedical Engineering</i> , 2006, 34, 506-514.	2.5	20
147	A Mesofluidics-Based Test Platform for Systematic Development of Scaffolds for <i>In Situ</i> Cardiovascular Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 475-485.	2.1	20
148	Variation in tissue outcome of ovine and human engineered heart valve constructs: relevance for tissue engineering. <i>Regenerative Medicine</i> , 2012, 7, 59-70.	1.7	20
149	Conceptual model for early health technology assessment of current and novel heart valve interventions. <i>Open Heart</i> , 2016, 3, e000500.	2.3	20
150	Modelling The Combined Effects Of Collagen and Cyclic Strain On Cellular Orientation In Collagenous Tissues. <i>Scientific Reports</i> , 2018, 8, 8518.	3.3	20
151	Compression-induced damage in a muscle cell model in vitro. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2005, 219, 1-12.	1.8	19
152	Superior Tissue Evolution in Slow-Degrading Scaffolds for Valvular Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2016, 22, 123-132.	3.1	19
153	Collagen Matrix Remodeling in Stented Pulmonary Arteries after Transapical Heart Valve Replacement. <i>Cells Tissues Organs</i> , 2016, 201, 159-169.	2.3	18
154	Supramolecular surface functionalization via catechols for the improvement of cell-material interactions. <i>Biomaterials Science</i> , 2017, 5, 1541-1548.	5.4	18
155	Growth and remodeling play opposing roles during postnatal human heart valve development. <i>Scientific Reports</i> , 2018, 8, 1235.	3.3	18
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