

Jeroen Rouwkema

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

4,282
citations

20
h-index

36
g-index

36
ext. papers

4,769
ext. citations

9.2
avg, IF

5.59
L-index

#	Paper	IF	Citations
33	Engineering vascularized skeletal muscle tissue. <i>Nature Biotechnology</i> , 2005 , 23, 879-84	44.5	1016
32	Vascularization in tissue engineering. <i>Trends in Biotechnology</i> , 2008 , 26, 434-41	15.1	890
31	Spheroid culture as a tool for creating 3D complex tissues. <i>Trends in Biotechnology</i> , 2013 , 31, 108-15	15.1	639
30	Vascularization and Angiogenesis in Tissue Engineering: Beyond Creating Static Networks. <i>Trends in Biotechnology</i> , 2016 , 34, 733-745	15.1	364
29	Endothelial cells assemble into a 3-dimensional prevascular network in a bone tissue engineering construct. <i>Tissue Engineering</i> , 2006 , 12, 2685-93		278
28	Oxygen gradients in tissue-engineered PEGT/PBT cartilaginous constructs: measurement and modeling. <i>Biotechnology and Bioengineering</i> , 2004 , 86, 9-18	4.9	256
27	Tissue assembly and organization: developmental mechanisms in microfabricated tissues. <i>Biomaterials</i> , 2009 , 30, 4851-8	15.6	107
26	Tissue deformation spatially modulates VEGF signaling and angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6886-91	11.5	107
25	The use of endothelial progenitor cells for prevascularized bone tissue engineering. <i>Tissue Engineering - Part A</i> , 2009 , 15, 2015-27	3.9	98
24	Towards 4D printed scaffolds for tissue engineering: exploiting 3D shape memory polymers to deliver time-controlled stimulus on cultured cells. <i>Biofabrication</i> , 2017 , 9, 031001	10.5	83
23	Sonic Hedgehog-activated engineered blood vessels enhance bone tissue formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4413-8	11.5	50
22	Biomechanical Strain Exacerbates Inflammation on a Progeria-on-a-Chip Model. <i>Small</i> , 2017 , 13, 1603737	11	48
21	Analysis of the dynamics of bone formation, effect of cell seeding density, and potential of allogeneic cells in cell-based bone tissue engineering in goats. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1081-89	3.9	43
20	Engineering Photocrosslinkable Bicomponent Hydrogel Constructs for Creating 3D Vascularized Bone. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601122	10.1	42
19	In vitro platforms for tissue engineering: implications for basic research and clinical translation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, e164-7	4.4	40
18	Bioengineered 3D Models to Recapitulate Tissue Fibrosis. <i>Trends in Biotechnology</i> , 2020 , 38, 623-636	15.1	33
17	Increased cell seeding efficiency in bioplotted three-dimensional PEOT/PBT scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 679-89	4.4	30

16	A medium throughput device to study the effects of combinations of surface strains and fluid-flow shear stresses on cells. <i>Lab on A Chip</i> , 2015 , 15, 429-39	7.2	28
15	Influence of PCL molecular weight on mesenchymal stromal cell differentiation. <i>RSC Advances</i> , 2015 , 5, 54510-54516	3.7	24
14	Modeling mechanical signals on the surface of µCT and CAD based rapid prototype scaffold models to predict (early stage) tissue development. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 1864-75	4.9	15
13	Tuning Cell and Tissue Development by Combining Multiple Mechanical Signals. <i>Tissue Engineering - Part B: Reviews</i> , 2017 , 23, 494-504	7.9	14
12	Supercritical carbon dioxide decellularised pericardium: Mechanical and structural characterisation for applications in cardio-thoracic surgery. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 77, 400-407	4.1	14
11	Mold-Based Application of Laser-Induced Periodic Surface Structures (LIPSS) on Biomaterials for Nanoscale Patterning. <i>Macromolecular Bioscience</i> , 2016 , 16, 43-9	5.5	11
10	Tissue engineering: An introduction 2008 , xii-xxxvi		7
9	Microphysiological systems: analysis of the current status, challenges and commercial future. <i>Microphysiological Systems</i> , 2018 , 2,	1.3	6
8	Acoustically-actuated bubble-powered rotational micro-propellers. <i>Sensors and Actuators B: Chemical</i> , 2021 , 347, 130589	8.5	6
7	Regulation of endothelial cell arrangements within hMSC - HUVEC co-cultured aggregates. <i>Biomedical Journal</i> , 2019 , 42, 166-177	7.1	4
6	Serial imaging of micro-agents and cancer cell spheroids in a microfluidic channel using multicolor fluorescence microscopy. <i>PLoS ONE</i> , 2021 , 16, e0253222	3.7	2
5	Spatiotemporally controlled, aptamers-mediated growth factor release locally manipulates microvasculature formation within engineered tissues.. <i>Bioactive Materials</i> , 2022 , 12, 71-84	16.7	1
4	Assessment of flow within developing chicken vasculature and biofabricated vascularized tissues using multimodal imaging techniques. <i>Scientific Reports</i> , 2021 , 11, 18251	4.9	1
3	Bone fixation techniques for managing joint disorders and injuries: A review study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 126, 104982	4.1	0
2	Hyaluronic Acid Oligomer Immobilization as an Angiogenic Trigger for the Neovascularization of TE Constructs.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 6023-6035	4.1	0
1	Cellular signaling 2008 , 89-120		