Jeroen Rouwkema

List of Publications by Year in Descending Order

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	Spatiotemporally controlled, aptamers-mediated growth factor release locally manipulates microvasculature formation within engineered tissues.. *Bioactive Materials*, **2022**, 12, 71-84	16.7	1
32	Bone fixation techniques for managing joint disorders and injuries: A review study. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 126, 104982	4.1	0
31	Serial imaging of micro-agents and cancer cell spheroids in a microfluidic channel using multicolor fluorescence microscopy. *PLoS ONE*, **2021**, 16, e0253222	3.7	2
30	Hyaluronic Acid Oligomer Immobilization as an Angiogenic Trigger for the Neovascularization of TE Constructs.. *ACS Applied Bio Materials*, **2021**, 4, 6023-6035	4.1	0
29	Assessment of flow within developing chicken vasculature and biofabricated vascularized tissues using multimodal imaging techniques. *Scientific Reports*, **2021**, 11, 18251	4.9	1
28	Acoustically-actuated bubble-powered rotational micro-propellers. *Sensors and Actuators B: Chemical*, **2021**, 347, 130589	8.5	6
27	Bioengineered 3D Models to Recapitulate Tissue Fibrosis. *Trends in Biotechnology*, **2020**, 38, 623-636	15.1	33
26	Regulation of endothelial cell arrangements within hMSC - HUVEC co-cultured aggregates. *Biomedical Journal*, **2019**, 42, 166-177	7.1	4
25	Supercritical carbon dioxide decellularised pericardium: Mechanical and structural characterisation for applications in cardio-thoracic surgery. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 77, 400-407	4.1	14
24	Microphysiological systems: analysis of the current status, challenges and commercial future. *Microphysiological Systems*, **2018**, 2,	1.3	6
23	Biomechanical Strain Exacerbates Inflammation on a Progeria-on-a-Chip Model. *Small*, **2017**, 13, 1603737	11	48
22	Engineering Photocrosslinkable Bicomponent Hydrogel Constructs for Creating 3D Vascularized Bone. *Advanced Healthcare Materials*, **2017**, 6, 1601122	10.1	42
21	Tuning Cell and Tissue Development by Combining Multiple Mechanical Signals. *Tissue Engineering - Part B: Reviews*, **2017**, 23, 494-504	7.9	14
20	Towards 4D printed scaffolds for tissue engineering: exploiting 3D shape memory polymers to deliver time-controlled stimulus on cultured cells. *Biofabrication*, **2017**, 9, 031001	10.5	83
19	Increased cell seeding efficiency in bioplotted three-dimensional PEOT/PBT scaffolds. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, 679-89	4.4	30
18	Vascularization and Angiogenesis in Tissue Engineering: Beyond Creating Static Networks. *Trends in Biotechnology*, **2016**, 34, 733-745	15.1	364
17	Mold-Based Application of Laser-Induced Periodic Surface Structures (LIPSS) on Biomaterials for Nanoscale Patterning. *Macromolecular Bioscience*, **2016**, 16, 43-9	5.5	11

16	Influence of PCL molecular weight on mesenchymal stromal cell differentiation. *RSC Advances*, **2015**, 5, 54510-54516	3.7	24
15	A medium throughput device to study the effects of combinations of surface strains and fluid-flow shear stresses on cells. *Lab on A Chip*, **2015**, 15, 429-39	7.2	28
14	Modeling mechanical signals on the surface of µCT and CAD based rapid prototype scaffold models to predict (early stage) tissue development. *Biotechnology and Bioengineering*, **2014**, 111, 1864-75	4.9	15
13	Spheroid culture as a tool for creating 3D complex tissues. *Trends in Biotechnology*, **2013**, 31, 108-15	15.1	639
12	Sonic Hedgehog-activated engineered blood vessels enhance bone tissue formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 4413-8	11.5	50
11	Tissue deformation spatially modulates VEGF signaling and angiogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 6886-91	11.5	107
10	In vitro platforms for tissue engineering: implications for basic research and clinical translation. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, e164-7	4.4	40
9	Tissue assembly and organization: developmental mechanisms in microfabricated tissues. *Biomaterials*, **2009**, 30, 4851-8	15.6	107
8	The use of endothelial progenitor cells for prevascularized bone tissue engineering. *Tissue Engineering - Part A*, **2009**, 15, 2015-27	3.9	98
7	Vascularization in tissue engineering. *Trends in Biotechnology*, **2008**, 26, 434-41	15.1	890
6	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. *Tissue Engineering - Part A*, **2008**, 14, 1081-8	3.9	43
5	Cellular signaling **2008**, 89-120		
4	Tissue engineering an introduction **2008**, xii-xxxvi		7
3	Endothelial cells assemble into a 3-dimensional prevascular network in a bone tissue engineering construct. *Tissue Engineering*, **2006**, 12, 2685-93		278
2	Engineering vascularized skeletal muscle tissue. *Nature Biotechnology*, **2005**, 23, 879-84	44.5	1016
1	Oxygen gradients in tissue-engineered PEGT/PBT cartilaginous constructs: measurement and modeling. *Biotechnology and Bioengineering*, **2004**, 86, 9-18	4.9	256