Matthew G Haugh

List of Publications by Year
in descending order

23 papers	3,488 citations	430442 18 h-index	713013 21 g-index
23 all docs	23 docs citations	23 times ranked	5575 citing authors

#	Article	IF	Citations
1	Investigating the interplay between substrate stiffness and ligand chemistry in directing mesenchymal stem cell differentiation within 3D macro-porous substrates. Biomaterials, 2018, 171, 23-33.	5.7	64
2	Facile Approach to Covalent Copolypeptide Hydrogels and Hybrid Organohydrogels. ACS Macro Letters, 2018, 7, 944-949.	2.3	12
3	Investigation of the optimal timing for chondrogenic priming of MSCs to enhance osteogenic differentiation<i>in vitro</i>as a bone tissue engineering strategy. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, E250-E262.	1.3	30
4	Integrating concepts of material mechanics, ligand chemistry, dimensionality and degradation to control differentiation of mesenchymal stem cells. Current Opinion in Solid State and Materials Science, 2016, 20, 171-179.	5.6	28
5	Engineered protein coatings to improve the osseointegration of dental and orthopaedic implants. Biomaterials, 2016, 83, 269-282.	5.7	105
6	An<i>In Vitro</i>Bone Tissue Regeneration Strategy Combining Chondrogenic and Vascular Priming Enhances the Mineralization Potential of Mesenchymal Stem Cells<i>In Vitro</i>While Also Allowing for Vessel Formation. Tissue Engineering - Part A, 2015, 21, 1320-1332.	1.6	27
7	Estrogen Withdrawal from Osteoblasts and Osteocytes Causes Increased Mineralization and Apoptosis. Hormone and Metabolic Research, 2014, 46, 537-545.	0.7	32
8	Osteocyte differentiation is regulated by extracellular matrix stiffness and intercellular separation. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 28, 183-194.	1.5	85
9	A fluidâ€"structure interaction model to characterize bone cell stimulation in parallel-plate flow chamber systems. Journal of the Royal Society Interface, 2013, 10, 20120900.	1.5	27
10	Primary Cilia Knockdown Reduces the Number of Stromal Cells in Three Dimensional Ex Vivo Culture. , 2013, , .		0
11	Heat-shock-induced cellular responses to temperature elevations occurring during orthopaedic cutting. Journal of the Royal Society Interface, 2012, 9, 3503-3513.	1.5	57
12	The Role of Integrins in Osteocyte Response to Mechanical Stimulus. , 2012, , .		2
13	The application of plastic compression to modulate fibrin hydrogel mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 16, 66-72.	1.5	20
14	Mesenchymal stem cell fate is regulated by the composition and mechanical properties of collagenâ€"glycosaminoglycan scaffolds. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 11, 53-62.	1.5	228
15	Crosslinking and Mechanical Properties Significantly Influence Cell Attachment, Proliferation, and Migration Within Collagen Glycosaminoglycan Scaffolds. Tissue Engineering - Part A, 2011, 17, 1201-1208.	1.6	265
16	Temporal and Spatial Changes in Cartilage-Matrix-Specific Gene Expression in Mesenchymal Stem Cells in Response to Dynamic Compression. Tissue Engineering - Part A, 2011, 17, 3085-3093.	1.6	51
17	Functional properties of cartilaginous tissues engineered from infrapatellar fat pad-derived mesenchymal stem cells. Journal of Biomechanics, 2010, 43, 920-926.	0.9	105
18	Local and regional mechanical characterisation of a collagen-glycosaminoglycan scaffold using high-resolution finite element analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2010, 3, 292-302.	1.5	13

#	Article	IF	Citations
19	The effect of mean pore size on cell attachment, proliferation and migration in collagenâ€“glycosaminoglycan scaffolds for bone tissue engineering. Biomaterials, 2010, 31, 461-466.	5.7	1,635
20	Novel Freeze-Drying Methods to Produce a Range of Collagenâ€“Glycosaminoglycan Scaffolds with Tailored Mean Pore Sizes. Tissue Engineering - Part C: Methods, 2010, 16, 887-894.	1.1	211
21	The effect of dehydrothermal treatment on the mechanical and structural properties of collagenâ€GAG scaffolds. Journal of Biomedical Materials Research - Part A, 2009, 89A, 363-369.	2.1	220
22	The effects of collagen concentration and crosslink density on the biological, structural and mechanical properties of collagen-GAG scaffolds for bone tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2009, 2, 202-209.	1.5	192
23	Gene expression by marrow stromal cells in a porous collagenâ€“glycosaminoglycan scaffold is affected by pore size and mechanical stimulation. Journal of Materials Science: Materials in Medicine, 2008, 19, 3455-3463.	1.7	79