

Woojin M Han

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,167
citations

430874

18
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642732

23
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all docs

33
docs citations

33
times ranked

1939
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonadhesive Alginate Hydrogels Support Growth of Pluripotent Stem Cell-Derived Intestinal Organoids. <i>Stem Cell Reports</i> , 2019, 12, 381-394.	4.8	160
2	Integrin-specific hydrogels modulate transplanted human bone marrow-derived mesenchymal stem cell survival, engraftment, and reparative activities. <i>Nature Communications</i> , 2020, 11, 114.	12.8	131
3	Microstructural heterogeneity directs micromechanics and mechanobiology in native and engineered fibrocartilage. <i>Nature Materials</i> , 2016, 15, 477-484.	27.5	84
4	Homologous structure–function relationships between native fibrocartilage and tissue engineered from MSC-seeded nanofibrous scaffolds. <i>Biomaterials</i> , 2011, 32, 461-468.	11.4	73
5	Macro- to Microscale Strain Transfer in Fibrous Tissues is Heterogeneous and Tissue-Specific. <i>Biophysical Journal</i> , 2013, 105, 807-817.	0.5	66
6	IFN- β -tethered hydrogels enhance mesenchymal stem cell-based immunomodulation and promote tissue repair. <i>Biomaterials</i> , 2019, 220, 119403.	11.4	66
7	Mechanically Induced Chromatin Condensation Requires Cellular Contractility in Mesenchymal Stem Cells. <i>Biophysical Journal</i> , 2016, 111, 864-874.	0.5	56
8	Determination of a Critical Size Threshold for Volumetric Muscle Loss in the Mouse Quadriceps. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 59-70.	2.1	56
9	Multi-scale Structural and Tensile Mechanical Response of Annulus Fibrosus to Osmotic Loading. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1610-1621.	2.5	54
10	Synthetic matrix enhances transplanted satellite cell engraftment in dystrophic and aged skeletal muscle with comorbid trauma. <i>Science Advances</i> , 2018, 4, eaar4008.	10.3	51
11	An Injectable Nucleus Pulposus Implant Restores Compressive Range of Motion in the Ovine Disc. <i>Spine</i> , 2012, 37, E1099-E1105.	2.0	43
12	Transcriptional and Chromatin Dynamics of Muscle Regeneration after Severe Trauma. <i>Stem Cell Reports</i> , 2016, 7, 983-997.	4.8	41
13	Co-delivery of Wnt7a and muscle stem cells using synthetic bioadhesive hydrogel enhances murine muscle regeneration and cell migration during engraftment. <i>Acta Biomaterialia</i> , 2019, 94, 243-252.	8.3	36
14	Nanoparticle Coatings for Enhanced Capture of Flowing Cells in Microtubes. <i>ACS Nano</i> , 2010, 4, 174-180.	14.6	35
15	Engineering hydrogels with affinity-bound laminin as 3D neural stem cell culture systems. <i>Biomaterials Science</i> , 2019, 7, 5338-5349.	5.4	35
16	Mechanical properties of the extra-cellular matrix of human annulus fibrosus are location and age dependent. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1725-1732.	2.3	32
17	Engineered matrices for skeletal muscle satellite cell engraftment and function. <i>Matrix Biology</i> , 2017, 60-61, 96-109.	3.6	30
18	Effect of orientation and targeted extracellular matrix degradation on the shear mechanical properties of the annulus fibrosus. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 1611-1619.	3.1	29

#	ARTICLE	IF	CITATIONS
19	Critical Limb Ischemia Induces Remodeling of Skeletal Muscle Motor Unit, Myonuclear-, and Mitochondrial-Domains. <i>Scientific Reports</i> , 2019, 9, 9551.	3.3	22
20	Impact of cellular microenvironment and mechanical perturbation on calcium signalling in meniscus fibrochondrocytes. , 2014, 27, 321-331.		21
21	Microfluidics generation of chitosan microgels containing glycerylphytate crosslinker for in situ human mesenchymal stem cells encapsulation. <i>Materials Science and Engineering C</i> , 2021, 120, 111716.	7.3	18
22	The Extracellular Matrix and Cell-Biomaterial Interactions. , 2020, , 701-715.		6
23	Cellular and molecular modulation of rotator cuff muscle pathophysiology. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2310-2322.	2.3	6
24	Engineered Heterochronic Parabiosis in 3D Microphysiological System for Identification of Muscle Rejuvenating Factors. <i>Advanced Functional Materials</i> , 2020, 30, 2002924.	14.9	5
25	A Hydrogel Strategy to Augment Tissue Adenosine to Improve Hindlimb Perfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, e314-e324.	2.4	3
26	Multi-Scale Structural and Tensile Mechanical Response of Annulus Fibrosus to Osmotic Loading. , 2012, , .		0
27	Hydrodynamic shear-based purification of cancer cells with enhanced tumorigenic potential. <i>Integrative Biology (United Kingdom)</i> , 2020, 12, 1-11.	1.3	0
28	Muscle Stem Cell-Nerve-Vasculature Interactions Modulate Tissue Regeneration Following Critical Limb Ischemia. <i>FASEB Journal</i> , 2019, 33, 524.2.	0.5	0