

Zheng Yang

List of Publications by Year in descending order

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36
papers

1,580
citations

361413

20
h-index

395702

33
g-index

36
all docs

36
docs citations

36
times ranked

2796
citing authors

#	ARTICLE	IF	CITATIONS
1	PDGF, TGF- β 2, and FGF signaling is important for differentiation and growth of mesenchymal stem cells (MSCs): transcriptional profiling can identify markers and signaling pathways important in differentiation of MSCs into adipogenic, chondrogenic, and osteogenic lineages. <i>Blood</i> , 2008, 112, 295-307.	1.4	512
2	Substrate topography determines the fate of chondrogenesis from human mesenchymal stem cells resulting in specific cartilage phenotype formation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1507-1516.	3.3	104
3	Cross-talk between TGF-beta/SMAD and integrin signaling pathways in regulating hypertrophy of mesenchymal stem cell chondrogenesis under deferral dynamic compression. <i>Biomaterials</i> , 2015, 38, 72-85.	11.4	96
4	Functional biomaterials for cartilage regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2526-2536.	4.0	79
5	Improved Mesenchymal Stem Cells Attachment and <i>In Vitro</i> Cartilage Tissue Formation on Chitosan-Modified Poly(L-Lactide-Epsilon-Caprolactone) Scaffold. <i>Tissue Engineering - Part A</i> , 2012, 18, 242-251.	3.1	79
6	Enhancement of mesenchymal stem cell chondrogenesis with short-term low intensity pulsed electromagnetic fields. <i>Scientific Reports</i> , 2017, 7, 9421.	3.3	70
7	The Combined Effect of Substrate Stiffness and Surface Topography on Chondrogenic Differentiation of Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2017, 23, 43-54.	3.1	62
8	Pulsed electromagnetic fields potentiate the paracrine function of mesenchymal stem cells for cartilage regeneration. <i>Stem Cell Research and Therapy</i> , 2020, 11, 46.	5.5	54
9	Engineering cell matrix interactions in assembled polyelectrolyte fiber hydrogels for mesenchymal stem cell chondrogenesis. <i>Biomaterials</i> , 2014, 35, 2607-2616.	11.4	51
10	Stage-Dependent Effect of TGF- β 21 on Chondrogenic Differentiation of Human Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2009, 18, 929-940.	2.1	50
11	Microfluidic label-free selection of mesenchymal stem cell subpopulation during culture expansion extends the chondrogenic potential <i>in vitro</i> . <i>Lab on A Chip</i> , 2018, 18, 878-889.	6.0	42
12	Hypoxia-Conditioned Mesenchymal Stem Cells in Tissue Regeneration Application. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 966-977.	4.8	38
13	Temporal Activation of β -Catenin Signaling in the Chondrogenic Process of Mesenchymal Stem Cells Affects the Phenotype of the Cartilage Generated. <i>Stem Cells and Development</i> , 2012, 21, 1966-1976.	2.1	36
14	The influence of scaffold microstructure on chondrogenic differentiation of mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 035011.	3.3	36
15	Characterization and application of size-sorted zonal chondrocytes for articular cartilage regeneration. <i>Biomaterials</i> , 2018, 165, 66-78.	11.4	33
16	Immunohistochemical Analysis of Human Mesenchymal Stem Cells Differentiating into Chondrogenic, Osteogenic, and Adipogenic Lineages. <i>Methods in Molecular Biology</i> , 2011, 698, 353-366.	0.9	32
17	Label-free separation of mesenchymal stem cell subpopulations with distinct differentiation potencies and paracrine effects. <i>Biomaterials</i> , 2020, 240, 119881.	11.4	28
18	Nanosecond pulsed electric fields enhanced chondrogenic potential of mesenchymal stem cells via JNK/CREB-STAT3 signaling pathway. <i>Stem Cell Research and Therapy</i> , 2019, 10, 45.	5.5	26

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19	Directionalities of magnetic fields and topographic scaffolds synergise to enhance MSC chondrogenesis. <i>Acta Biomaterialia</i> , 2021, 119, 169-183.	8.3	21
20	Improved zonal chondrocyte production protocol integrating size-based inertial spiral microchannel separation and dynamic microcarrier culture for clinical application. <i>Biomaterials</i> , 2019, 220, 119409.	11.4	20
21	Enhancement of the chondrogenic differentiation of mesenchymal stem cells and cartilage repair by ghrelin. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1387-1397.	2.3	18
22	Electrospun fibers enhanced the paracrine signaling of mesenchymal stem cells for cartilage regeneration. <i>Stem Cell Research and Therapy</i> , 2021, 12, 100.	5.5	18
23	Towards Standardized Stem Cell Therapy in Type 2 Diabetes Mellitus: A Systematic Review. <i>Current Stem Cell Research and Therapy</i> , 2018, 13, 476-488.	1.3	13
24	Noninvasive Monitoring of Three-Dimensional Chondrogenic Constructs Using Molecular Beacon Nanosensors. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 12-20.	2.1	11
25	Repair of Osteochondral Defects With Predifferentiated Mesenchymal Stem Cells of Distinct Phenotypic Character Derived From a Nanotopographic Platform. <i>American Journal of Sports Medicine</i> , 2020, 48, 1735-1747.	4.2	9
26	Cell type dependent morphological adaptation in polyelectrolyte hydrogels governs chondrogenic fate. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 025013.	3.3	8
27	Synergistic Effect of NELL-1 and an Ultra-Low Dose of BMP-2 on Spinal Fusion. <i>Tissue Engineering - Part A</i> , 2019, 25, 1677-1689.	3.1	8
28	The effect of temporal manipulation of transforming growth factor beta 3 and fibroblast growth factor 2 on the derivation of proliferative chondrocytes from mesenchymal stem cells. A study monitored by quantitative reverse transcription polymerase chain reaction and molecular beacon based nanosensors. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 895-904.	4.0	7
29	RELATIONSHIP BETWEEN CELL FUNCTION AND INITIAL CELL SEEDING DENSITY OF PRIMARY PORCINE CHONDROCYTES <i>IN VITRO</i> . <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2013, 25, 1340001.	0.6	6
30	Bone Regeneration by Controlled Release of Bone Morphogenetic Protein-2: A Rabbit Spinal Fusion Chamber Molecular Study. <i>Tissue Engineering - Part A</i> , 2019, 25, 1356-1368.	3.1	4
31	Can Upregulation of Pluripotency Genes Enhance Stemness of Mesenchymal Stem Cells?. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 1505-1507.	3.8	3
32	Impact of Mechanobiological Perturbation in Cartilage Tissue Engineering. , 2019, , 379-392.		2
33	Improving the handling properties and long-term stability of polyelectrolyte complex by freeze-drying technique for low-dose bone morphogenetic protein 2 delivery. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2450-2460.	3.4	2
34	A Pre-Clinical Animal Study for Zonal Articular Cartilage Regeneration Using Stratified Implantation of Microcarrier Expanded Zonal Chondrocytes. <i>Cartilage</i> , 2022, 13, 194760352210930.	2.7	2
35	Cartilage Repair with Stem Cells. , 2010, , 477-502.		0
36	Protocol of Chondrogenesis of BMSC to Chondrocyte Using Chitosan-Modified Poly(L-Lactide-co- μ -Caprolactone) Scaffolds. <i>Manuals in Biomedical Research</i> , 2014, , 49-58.	0.0	0