Wenchuan Chen

List of Publications by Year
in descending order

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28	1,005	516710 16	552781 26
papers	citations	h-index	g-index

29	29	29	1600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Umbilical cord and bone marrow mesenchymal stem cell seeding on macroporous calcium phosphate for bone regeneration in rat cranial defects. Biomaterials, 2013, 34, 9917-9925.	11.4	137
2	Bone tissue engineering via human induced pluripotent, umbilical cord and bone marrow mesenchymal stem cells in rat cranium. Acta Biomaterialia, 2015, 18, 236-248.	8.3	116
3	Umbilical cord stem cells released from alginateâ€“fibrin microbeads inside macroporous and biofunctionalized calcium phosphate cement for bone regeneration. Acta Biomaterialia, 2012, 8, 2297-2306.	8.3	74
4	Co-Seeding Human Endothelial Cells with Human-Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cells on Calcium Phosphate Scaffold Enhances Osteogenesis and Vascularization in Rats. Tissue Engineering - Part A, 2017, 23, 546-555.	3.1	71
5	Human Embryonic Stem Cell-Derived Mesenchymal Stem Cell Seeding on Calcium Phosphate Cement-Chitosan-RGD Scaffold for Bone Repair. Tissue Engineering - Part A, 2013, 19, 915-927.	3.1	67
6	Gas-Foaming Calcium Phosphate Cement Scaffold Encapsulating Human Umbilical Cord Stem Cells. Tissue Engineering - Part A, 2012, 18, 816-827.	3.1	65
7	Angiogenic and osteogenic regeneration in rats via calcium phosphate scaffold and endothelial cell co-culture with human bone marrow mesenchymal stem cells (MSCs), human umbilical cord MSCs, human induced pluripotent stem cell-derived MSCs and human embry. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 191-203.	2.7	65
8	Human embryonic stem cells and macroporous calcium phosphate construct for bone regeneration in cranial defects in rats. Acta Biomaterialia, 2014, 10, 4484-4493.	8.3	51
9	Prevascularization of biofunctional calcium phosphate cement for dental and craniofacial repairs. Dental Materials, 2014, 30, 535-544.	3.5	51
10	Induced Pluripotent Stem Cell-derived Mesenchymal Stem Cell Seeding on Biofunctionalized Calcium Phosphate Cements. Bone Research, 2013, 1, 371-384.	11.4	50
11	Low-intensity pulsed ultrasound regulates proliferation and differentiation of osteoblasts through osteocytes. Biochemical and Biophysical Research Communications, 2012, 418, 296-300.	2.1	45
12	Effects of non-thermal plasma treatment on the polysaccharide from Dendrobium nobile Lindl. And its immune activities in vitro. International Journal of Biological Macromolecules, 2020, 153, 942-950.	7.5	26
13	Effect of NELL1 gene overexpression in iPSC-MSCs seeded on calcium phosphate cement. Acta Biomaterialia, 2014, 10, 5128-5138.	8.3	25
14	The biological width around implant. Journal of Prosthodontic Research, 2021, 65, 11-18.	2.8	23
15	Effects of Lowâ€Intensity Pulsed Ultrasound on Implant Osseointegration in Ovariectomized Rats. Journal of Ultrasound in Medicine, 2016, 35, 747-754.	1.7	20
16	Different performances of CXCR4, integrin-1Î² and CCR-2 in bone marrow stromal cells (BMSCs) migration by low-intensity pulsed ultrasound stimulation. Biomedizinische Technik, 2017, 62, 89-95.	0.8	18
17	Non-thermal plasma reduces periodontitis-induced alveolar bone loss in rats. Biochemical and Biophysical Research Communications, 2018, 503, 2040-2046.	2.1	16
18	Ultrasound: A potential technique to improve osseointegration of dental implants. Medical Hypotheses, 2008, 71, 568-571.	1.5	14

#	Article	IF	Citations
19	Effects of novel non-thermal atmospheric plasma treatment of titanium on physical and biological improvements and in vivo osseointegration in rats. Scientific Reports, 2020, 10, 10637.	3.3	13
20	A dual role of HIF1Î± in regulating osteogenesisâ€“angiogenesis coupling. Stem Cell Research and Therapy, 2022, 13, 59.	5.5	13
21	Gene expression patterns of osteocyteâ€like MLOâ€Y4 cells in response to cyclic compressive force stimulation. Cell Biology International, 2010, 34, 425-432.	3.0	12
22	The Injectable Woven Bone-Like Hydrogel to Perform Alveolar Ridge Preservation With Adapted Remodeling Performance After Tooth Extraction. Frontiers in Bioengineering and Biotechnology, 2020, 8, 119.	4.1	10
23	Effect of Carboxymethyl Chitosan and Aging Time on Synthesis and Storage of Amorphous Calcium Phosphate. Journal of Nanoscience and Nanotechnology, 2016, 16, 12582-12589.	0.9	8
24	Transcriptomic profiling and functional prediction reveal aberrant expression of circular RNAs during osteogenic differentiation in human umbilical cord mesenchymal stromal cells. Scientific Reports, 2021, 11, 19881.	3.3	8
25	Screening and preliminary identification of long non-coding RNAs critical for osteogenic differentiation of human umbilical cord mesenchymal stem cells. Bioengineered, 2022, 13, 6880-6894.	3.2	4
26	Proposal and In-Depth Analysis of Emergency Treatment Procedures for Removing Fractured Abutments in Implants With Tapped-In Connections: Case Report. Journal of Oral Implantology, 2020, 46, 51-56.	1.0	2
27	A chair-side plasma treatment system for rapidly enhancing the surface hydrophilicity of titanium dental implants in clinical operations. Journal of Oral Science, 2021, 63, 334-340.	1.7	1
28	Nonthermal Plasma Brush Treatment on Titanium and Zirconia To Improve Periabutment Epithelium Formation. ACS Biomaterials Science and Engineering, 2021, 7, 5039-5047.	5.2	0