

Xun Sun

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,394
citations

394421

19
h-index

414414

32
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34
all docs

34
docs citations

34
times ranked

2037
citing authors

#	ARTICLE	IF	CITATIONS
1	3D printed porous ceramic scaffolds for bone tissue engineering: a review. <i>Biomaterials Science</i> , 2017, 5, 1690-1698.	5.4	226
2	Prompt peripheral nerve regeneration induced by a hierarchically aligned fibrin nanofiber hydrogel. <i>Acta Biomaterialia</i> , 2017, 55, 296-309.	8.3	148
3	Induction of mesenchymal stem cell chondrogenic differentiation and functional cartilage microtissue formation for in vivo cartilage regeneration by cartilage extracellular matrix-derived particles. <i>Acta Biomaterialia</i> , 2016, 33, 96-109.	8.3	105
4	Increased recruitment of endogenous stem cells and chondrogenic differentiation by a composite scaffold containing bone marrow homing peptide for cartilage regeneration. <i>Theranostics</i> , 2018, 8, 5039-5058.	10.0	93
5	Human umbilical cord mesenchymal stem cells promote peripheral nerve repair via paracrine mechanisms. <i>Neural Regeneration Research</i> , 2015, 10, 651.	3.0	85
6	Immunomodulation of MSCs and MSC-Derived Extracellular Vesicles in Osteoarthritis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 575057.	4.1	82
7	In Situ Articular Cartilage Regeneration through Endogenous Reparative Cell Homing Using a Functional Bone Marrow-Specific Scaffolding System. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38715-38728.	8.0	68
8	Synergistic effects of dual-presenting VEGF- and BDNF-mimetic peptide epitopes from self-assembling peptide hydrogels on peripheral nerve regeneration. <i>Nanoscale</i> , 2019, 11, 19943-19958.	5.6	62
9	Functional tissue-engineered microtissue derived from cartilage extracellular matrix for articular cartilage regeneration. <i>Acta Biomaterialia</i> , 2018, 77, 127-141.	8.3	61
10	Bioactive Self-Assembling Peptide Hydrogels Functionalized with Brain-Derived Neurotrophic Factor and Nerve Growth Factor Mimicking Peptides Synergistically Promote Peripheral Nerve Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2994-3005.	5.2	49
11	Differentiation of adipose-derived stem cells into Schwann cell-like cells through intermittent induction: potential advantage of cellular transient memory function. <i>Stem Cell Research and Therapy</i> , 2018, 9, 133.	5.5	47
12	A neurotrophic peptide-functionalized self-assembling peptide nanofiber hydrogel enhances rat sciatic nerve regeneration. <i>Nano Research</i> , 2018, 11, 4599-4613.	10.4	43
13	Mechanisms and treatment of painful neuromas. <i>Reviews in the Neurosciences</i> , 2018, 29, 557-566.	2.9	36
14	Use of a three-dimensional printed polylactide-coglycolide/tricalcium phosphate composite scaffold incorporating magnesium powder to enhance bone defect repair in rabbits. <i>Journal of Orthopaedic Translation</i> , 2019, 16, 62-70.	3.9	36
15	Intervertebral Disk Degeneration: The Microenvironment and Tissue Engineering Strategies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 592118.	4.1	32
16	Acellular Cauda Equina Allograft as Main Material Combined with Biodegradable Chitin Conduit for Regeneration of Long-Distance Sciatic Nerve Defect in Rats. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800276.	7.6	26
17	Spatiotemporal regulation of endogenous MSCs using a functional injectable hydrogel system for cartilage regeneration. <i>NPG Asia Materials</i> , 2021, 13, .	7.9	24
18	Role of the Calcified Cartilage Layer of an Integrated Trilayered Silk Fibroin Scaffold Used to Regenerate Osteochondral Defects in Rabbit Knees. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1208-1216.	5.2	22

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19	Regional and sustained dual-release of growth factors from biomimetic tri-layered scaffolds for the repair of large-scale osteochondral defects. <i>Applied Materials Today</i> , 2020, 19, 100548.	4.3	20
20	Extracellular matrix from human umbilical cord-derived mesenchymal stem cells as a scaffold for peripheral nerve regeneration. <i>Neural Regeneration Research</i> , 2016, 11, 1172.	3.0	20
21	Comparative radiological outcomes and complications of sacral-2-alar iliac screw versus iliac screw for sacropelvic fixation. <i>European Spine Journal</i> , 2021, 30, 2257-2270.	2.2	17
22	Adipose Tissue-Derived Pericytes for Cartilage Tissue Engineering. <i>Current Stem Cell Research and Therapy</i> , 2017, 12, 513-521.	1.3	14
23	The Immuno-Modulation Effect of Macrophage-Derived Extracellular Vesicles in Chronic Inflammatory Diseases. <i>Frontiers in Immunology</i> , 2021, 12, 785728.	4.8	14
24	Extracellular matrix derived by human umbilical cord-deposited mesenchymal stem cells accelerates chondrocyte proliferation and differentiation potential in vitro. <i>Cell and Tissue Banking</i> , 2019, 20, 351-365.	1.1	12
25	<p>Construction of Microunits by Adipose-Derived Mesenchymal Stem Cells Laden with Porous Microcryogels for Repairing an Acute Achilles Tendon Rupture in a Rat Model</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 7155-7171.	6.7	12
26	The production, detection, and origin of irisin and its effect on bone cells. <i>International Journal of Biological Macromolecules</i> , 2021, 178, 316-324.	7.5	11
27	Synergistic Effects of Kartogenin and Transforming Growth Factor on Chondrogenesis of Human Umbilical Cord Mesenchymal Stem Cells In Vitro. <i>Orthopaedic Surgery</i> , 2020, 12, 938-945.	1.8	10
28	Identification of Changes in Gene expression of rats after Sensory and Motor Nerves Injury. <i>Scientific Reports</i> , 2016, 6, 26579.	3.3	6
29	Protein microarray analysis of cytokine expression changes in distal stumps after sciatic nerve transection. <i>Neural Regeneration Research</i> , 2020, 15, 503.	3.0	4
30	Hyaluronic Acid-Coated Nanoparticles for the Localized Delivery of Methylprednisolone to the Injured Spinal Cord. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-9.	2.7	3
31	Inhibition of Osteoarthritis in Rats by Electroporation with Interleukin-1 Receptor Antagonist. <i>Journal of Biomedical Science and Engineering</i> , 2016, 09, 323-336.	0.4	2
32	Targeted fully endoscopic visualized laminar trepanning approach under local anaesthesia for resection of highly migrated lumbar disc herniation. <i>International Orthopaedics</i> , 2022, 46, 1627-1636.	1.9	2
33	Can the Full-Percutaneous Endoscopic Lumbar Discectomy in Day Surgery Mode Achieve Better Outcomes Following Enhanced Recovery after Surgery Protocol? A Retrospective Comparative Study. <i>Frontiers in Surgery</i> , 2022, 9, .	1.4	2
34	Differences in the Structure and Protein Expression of Femoral Nerve Branches in Rats. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 16.	1.7	0