Shiyu Liu

List of Publications by Year
in descending order

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49 papers	3,553 citations	159585 30 h-index	206112 48 g-index
52 all docs	52 docs citations	52 times ranked	4675 citing authors

#	Article	IF	Citations
1	Engineered neutrophil apoptotic bodies ameliorate myocardial infarction by promoting macrophage efferocytosis and inflammation resolution. Bioactive Materials, 2022, 9, 183-197.	15.6	36
2	3D printing customized design of human bone tissue implant and its application. Nanotechnology Reviews, 2022, 11, 1792-1801.	5.8	5
3	Apoptotic cell-derived micro/nanosized extracellular vesicles in tissue regeneration. Nanotechnology Reviews, 2022, 11, 957-972.	5.8	7
4	Odontogenic MSC Heterogeneity: Challenges and Opportunities for Regenerative Medicine. Frontiers in Physiology, 2022, 13, 827470.	2.8	2
5	Apoptotic extracellular vesicles alleviate Pgâ€LPS induced inflammatory responses of macrophages via AMPK/SIRT1/NFâ€ºB pathway and inhibit osteoclast formation. Journal of Periodontology, 2022, 93, 1738-1751.	3.4	25
6	Apoptotic vesicles activate autophagy in recipient cells to induce angiogenesis and dental pulp regeneration. Molecular Therapy, 2022, 30, 3193-3208.	8.2	32
7	Hybrid Biomaterial Initiates Refractory Wound Healing via Inducing Transiently Heightened Inflammatory Responses. Advanced Science, 2022, 9, .	11.2	20
8	Advancing application of mesenchymal stem cell-based bone tissue regeneration. Bioactive Materials, 2021, 6, 666-683.	15.6	139
9	Injectable hydrogel with MSNs/microRNA-21-5p delivery enables both immunomodification and enhanced angiogenesis for myocardial infarction therapy in pigs. Science Advances, 2021, 7, .	10.3	107
10	Modular immune-homeostatic microparticles promote immune tolerance in mouse autoimmune models. Science Translational Medicine, 2021, 13, .	12.4	24
11	Custom-Made Antibiotic Cement-Coated Nail for the Treatment of Infected Bone Defect. BioMed Research International, 2021, 2021, 1-12.	1.9	7
12	Apoptotic vesicles restore liver macrophage homeostasis to counteract type 2 diabetes. Journal of Extracellular Vesicles, 2021, 10, e12109.	12.2	90
13	Multifunctional hierarchical nanohybrids perform triple antitumor theranostics in a cascaded manner for effective tumor treatment. Acta Biomaterialia, 2021, 128, 408-419.	8.3	9
14	On-demand manipulation of tumorigenic microenvironments by nano-modulator for synergistic tumor therapy. Biomaterials, 2021, 275, 120956.	11.4	37
15	T cell-depleting nanoparticles ameliorate bone loss by reducing activated T cells and regulating the Treg/Th17 balance. Bioactive Materials, 2021, 6, 3150-3163.	15.6	26
16	Apoptotic bodies derived from mesenchymal stem cells promote cutaneous wound healing via regulating the functions of macrophages. Stem Cell Research and Therapy, 2020, 11, 507.	5.5	85
17	Chimeric apoptotic bodies functionalized with natural membrane and modular delivery system for inflammation modulation. Science Advances, 2020, 6, eaba2987.	10.3	86
18	Induced membrane technique combined with antibiotic-loaded calcium sulfateâ€“calcium phosphate composite as bone graft expander for the treatment of large infected bone defects: preliminary results of 12 cases. Annals of Translational Medicine, 2020, 8, 1081-1081.	1.7	8

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19	Treatment of infarcted heart tissue via the capture and local delivery of circulating exosomes through antibody-conjugated magnetic nanoparticles. Nature Biomedical Engineering, 2020, 4, 1063-1075.	22.5	161
20	Exosomes released from educated mesenchymal stem cells accelerate cutaneous wound healing via promoting angiogenesis. Cell Proliferation, 2020, 53, e12830.	5.3	90
21	Increased Expression of Sox9 during Balance of BMSCs/Chondrocyte Bricks in Platelet-Rich Plasma Promotes Construction of a Stable 3-D Chondrogenesis Microenvironment for BMSCs. Stem Cells International, 2020, 2020, 1-11.	2.5	5
22	A tumor-targeted nanoplatform with stimuli-responsive cascaded activities for multiple model tumor therapy. Biomaterials Science, 2020, 8, 1865-1874.	5.4	14
23	Donor MSCs release apoptotic bodies to improve myocardial infarction via autophagy regulation in recipient cells. Autophagy, 2020, 16, 2140-2155.	9.1	96
24	Ionomycin ameliorates hypophosphatasia via rescuing alkaline phosphatase deficiency-mediated L-type Ca2+ channel internalization in mesenchymal stem cells. Bone Research, 2020, 8, 19.	11.4	9
25	The effect of calcium sulfate/calcium phosphate composite for the treatment of chronic osteomyelitis compared with calcium sulfate. Annals of Palliative Medicine, 2020, 9, 1821-1833.	1.2	13
26	Stem cell-based bone and dental regeneration: a view of microenvironmental modulation. International Journal of Oral Science, 2019, 11, 23.	8.6	146
27	Stimuliâ€Responsive Scaffold for Breast Cancer Treatment Combining Accurate Photothermal Therapy and Adipose Tissue Regeneration. Advanced Functional Materials, 2019, 29, 1904401.	14.9	56
28	A superparamagnetic Fe₃O₄â€“TiO₂ composite coating on titanium by micro-arc oxidation for percutaneous implants. Journal of Materials Chemistry B, 2019, 7, 5265-5276.	5.8	27
29	MSC-Derived Exosome Promotes M2 Polarization and Enhances Cutaneous Wound Healing. Stem Cells International, 2019, 2019, 1-16.	2.5	242
30	Substrateâ€Independent Coating with Persistent and Stable Antifouling and Antibacterial Activities to Reduce Bacterial Infection for Various Implants. Advanced Healthcare Materials, 2019, 8, e1801423.	7.6	34
31	Fabrication of Self-Healing Hydrogels with On-Demand Antimicrobial Activity and Sustained Biomolecule Release for Infected Skin Regeneration. ACS Applied Materials & Interfaces, 2018, 10, 17018-17027.	8.0	150
32	Activation of the Wnt/Î²-Catenin Pathway by an Inflammatory Microenvironment Affects the Myogenic Differentiation Capacity of Human Laryngeal Mucosa Mesenchymal Stromal Cells. Stem Cells and Development, 2018, 27, 771-782.	2.1	6
33	Immobilization of heparin on decellularized kidney scaffold to construct microenvironment for antithrombosis and inducing reendothelialization. Science China Life Sciences, 2018, 61, 1168-1177.	4.9	12
34	Graphene Oxide Based Recyclable in Vivo Device for Amperometric Monitoring of Interferon-Î³ in Inflammatory Mice. ACS Applied Materials & Interfaces, 2018, 10, 33078-33087.	8.0	25
35	Alpl prevents bone ageing sensitivity by specifically regulating senescence and differentiation in mesenchymal stem cells. Bone Research, 2018, 6, 27.	11.4	50
36	Circulating apoptotic bodies maintain mesenchymal stem cell homeostasis and ameliorate osteopenia via transferring multiple cellular factors. Cell Research, 2018, 28, 918-933.	12.0	165

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37	Mesenchymal stem cells and extracellular matrix scaffold promote muscle regeneration by synergistically regulating macrophage polarization toward the M2 phenotype. Stem Cell Research and Therapy, 2018, 9, 88.	5.5	77
38	Deciduous autologous tooth stem cells regenerate dental pulp after implantation into injured teeth. Science Translational Medicine, 2018, 10, .	12.4	300
39	MiRNA-29b suppresses tumor growth through simultaneously inhibiting angiogenesis and tumorigenesis by targeting Akt3. Cancer Letters, 2017, 397, 111-119.	7.2	109
40	Human Umbilical Cord MSCs as New Cell Sources for Promoting Periodontal Regeneration in Inflammatory Periodontal Defect. Theranostics, 2017, 7, 4370-4382.	10.0	50
41	Periodontal Ligament Stem Cells in the Periodontitis Microenvironment Are Sensitive to Static Mechanical Strain. Stem Cells International, 2017, 2017, 1-13.	2.5	39
42	Composite cell sheet for periodontal regeneration: crosstalk between different types of MSCs in cell sheet facilitates complex periodontal-like tissue regeneration. Stem Cell Research and Therapy, 2016, 7, 168.	5.5	55
43	Suppression of EZH2 Prevents the Shift of Osteoporotic MSC Fate to Adipocyte and Enhances Bone Formation During Osteoporosis. Molecular Therapy, 2016, 24, 217-229.	8.2	126
44	Bone marrow mesenchymal stem cell aggregate: an optimal cell therapy for full-layer cutaneous wound vascularization and regeneration. Scientific Reports, 2015, 5, 17036.	3.3	44
45	MiR-26a Rescues Bone Regeneration Deficiency of Mesenchymal Stem Cells Derived From Osteoporotic Mice. Molecular Therapy, 2015, 23, 1349-1357.	8.2	78
46	MSC Transplantation Improves Osteopenia via Epigenetic Regulation of Notch Signaling in Lupus. Cell Metabolism, 2015, 22, 606-618.	16.2	195
47	Mesenchymal Stem Cells Prevent Hypertrophic Scar Formation via Inflammatory Regulation when Undergoing Apoptosis. Journal of Investigative Dermatology, 2014, 134, 2648-2657.	0.7	124
48	The promotion of bone regeneration through positive regulation ofÂangiogenicâ€“osteogenic coupling using microRNA-26a. Biomaterials, 2013, 34, 5048-5058.	11.4	191
49	Synergistic Angiogenesis Promoting Effects of Extracellular Matrix Scaffolds and Adipose-Derived Stem Cells During Wound Repair. Tissue Engineering - Part A, 2011, 17, 725-739.	3.1	119