

# Shiyu Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Deciduous autologous tooth stem cells regenerate dental pulp after implantation into injured teeth. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	300
2	MSC-Derived Exosome Promotes M2 Polarization and Enhances Cutaneous Wound Healing. <i>Stem Cells International</i> , 2019, 2019, 1-16.	2.5	242
3	MSC Transplantation Improves Osteopenia via Epigenetic Regulation of Notch Signaling in Lupus. <i>Cell Metabolism</i> , 2015, 22, 606-618.	16.2	195
4	The promotion of bone regeneration through positive regulation of "angiogenic" osteogenic coupling using microRNA-26a. <i>Biomaterials</i> , 2013, 34, 5048-5058.	11.4	191
5	Circulating apoptotic bodies maintain mesenchymal stem cell homeostasis and ameliorate osteopenia via transferring multiple cellular factors. <i>Cell Research</i> , 2018, 28, 918-933.	12.0	165
6	Treatment of infarcted heart tissue via the capture and local delivery of circulating exosomes through antibody-conjugated magnetic nanoparticles. <i>Nature Biomedical Engineering</i> , 2020, 4, 1063-1075.	22.5	161
7	Fabrication of Self-Healing Hydrogels with On-Demand Antimicrobial Activity and Sustained Biomolecule Release for Infected Skin Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17018-17027.	8.0	150
8	Stem cell-based bone and dental regeneration: a view of microenvironmental modulation. <i>International Journal of Oral Science</i> , 2019, 11, 23.	8.6	146
9	Advancing application of mesenchymal stem cell-based bone tissue regeneration. <i>Bioactive Materials</i> , 2021, 6, 666-683.	15.6	139
10	Suppression of EZH2 Prevents the Shift of Osteoporotic MSC Fate to Adipocyte and Enhances Bone Formation During Osteoporosis. <i>Molecular Therapy</i> , 2016, 24, 217-229.	8.2	126
11	Mesenchymal Stem Cells Prevent Hypertrophic Scar Formation via Inflammatory Regulation when Undergoing Apoptosis. <i>Journal of Investigative Dermatology</i> , 2014, 134, 2648-2657.	0.7	124
12	Synergistic Angiogenesis Promoting Effects of Extracellular Matrix Scaffolds and Adipose-Derived Stem Cells During Wound Repair. <i>Tissue Engineering - Part A</i> , 2011, 17, 725-739.	3.1	119
13	MiRNA-29b suppresses tumor growth through simultaneously inhibiting angiogenesis and tumorigenesis by targeting Akt3. <i>Cancer Letters</i> , 2017, 397, 111-119.	7.2	109
14	Injectable hydrogel with MSNs/microRNA-21-5p delivery enables both immunomodification and enhanced angiogenesis for myocardial infarction therapy in pigs. <i>Science Advances</i> , 2021, 7, .	10.3	107
15	Donor MSCs release apoptotic bodies to improve myocardial infarction via autophagy regulation in recipient cells. <i>Autophagy</i> , 2020, 16, 2140-2155.	9.1	96
16	Exosomes released from educated mesenchymal stem cells accelerate cutaneous wound healing via promoting angiogenesis. <i>Cell Proliferation</i> , 2020, 53, e12830.	5.3	90
17	Apoptotic vesicles restore liver macrophage homeostasis to counteract type 2 diabetes. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12109.	12.2	90
18	Chimeric apoptotic bodies functionalized with natural membrane and modular delivery system for inflammation modulation. <i>Science Advances</i> , 2020, 6, eaba2987.	10.3	86

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19	Apoptotic bodies derived from mesenchymal stem cells promote cutaneous wound healing via regulating the functions of macrophages. <i>Stem Cell Research and Therapy</i> , 2020, 11, 507.	5.5	85
20	MiR-26a Rescues Bone Regeneration Deficiency of Mesenchymal Stem Cells Derived From Osteoporotic Mice. <i>Molecular Therapy</i> , 2015, 23, 1349-1357.	8.2	78
21	Mesenchymal stem cells and extracellular matrix scaffold promote muscle regeneration by synergistically regulating macrophage polarization toward the M2 phenotype. <i>Stem Cell Research and Therapy</i> , 2018, 9, 88.	5.5	77
22	Stimuli-Responsive Scaffold for Breast Cancer Treatment Combining Accurate Photothermal Therapy and Adipose Tissue Regeneration. <i>Advanced Functional Materials</i> , 2019, 29, 1904401.	14.9	56
23	Composite cell sheet for periodontal regeneration: crosstalk between different types of MSCs in cell sheet facilitates complex periodontal-like tissue regeneration. <i>Stem Cell Research and Therapy</i> , 2016, 7, 168.	5.5	55
24	Human Umbilical Cord MSCs as New Cell Sources for Promoting Periodontal Regeneration in Inflammatory Periodontal Defect. <i>Theranostics</i> , 2017, 7, 4370-4382.	10.0	50
25	Alpl prevents bone ageing sensitivity by specifically regulating senescence and differentiation in mesenchymal stem cells. <i>Bone Research</i> , 2018, 6, 27.	11.4	50
26	Bone marrow mesenchymal stem cell aggregate: an optimal cell therapy for full-layer cutaneous wound vascularization and regeneration. <i>Scientific Reports</i> , 2015, 5, 17036.	3.3	44
27	Periodontal Ligament Stem Cells in the Periodontitis Microenvironment Are Sensitive to Static Mechanical Strain. <i>Stem Cells International</i> , 2017, 2017, 1-13.	2.5	39
28	On-demand manipulation of tumorigenic microenvironments by nano-modulator for synergistic tumor therapy. <i>Biomaterials</i> , 2021, 275, 120956.	11.4	37
29	Engineered neutrophil apoptotic bodies ameliorate myocardial infarction by promoting macrophage efferocytosis and inflammation resolution. <i>Bioactive Materials</i> , 2022, 9, 183-197.	15.6	36
30	Substrate-Independent Coating with Persistent and Stable Antifouling and Antibacterial Activities to Reduce Bacterial Infection for Various Implants. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801423.	7.6	34
31	Apoptotic vesicles activate autophagy in recipient cells to induce angiogenesis and dental pulp regeneration. <i>Molecular Therapy</i> , 2022, 30, 3193-3208.	8.2	32
32	A superparamagnetic Fe <sub>3</sub> O <sub>4</sub> -TiO <sub>2</sub> composite coating on titanium by micro-arc oxidation for percutaneous implants. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5265-5276.	5.8	27
33	T cell-depleting nanoparticles ameliorate bone loss by reducing activated T cells and regulating the Treg/Th17 balance. <i>Bioactive Materials</i> , 2021, 6, 3150-3163.	15.6	26
34	Graphene Oxide Based Recyclable <i>in Vivo</i> Device for Amperometric Monitoring of Interferon- $\beta$ in Inflammatory Mice. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33078-33087.	8.0	25
35	Apoptotic extracellular vesicles alleviate P $\beta$ -LPS induced inflammatory responses of macrophages via AMPK/SIRT1/NF- $\kappa$ B pathway and inhibit osteoclast formation. <i>Journal of Periodontology</i> , 2022, 93, 1738-1751.	3.4	25
36	Modular immune-homeostatic microparticles promote immune tolerance in mouse autoimmune models. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	24

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37	Hybrid Biomaterial Initiates Refractory Wound Healing via Inducing Transiently Heightened Inflammatory Responses. <i>Advanced Science</i> , 2022, 9, .	11.2	20
38	A tumor-targeted nanoplatfom with stimuli-responsive cascaded activities for multiple model tumor therapy. <i>Biomaterials Science</i> , 2020, 8, 1865-1874.	5.4	14
39	The effect of calcium sulfate/calcium phosphate composite for the treatment of chronic osteomyelitis compared with calcium sulfate. <i>Annals of Palliative Medicine</i> , 2020, 9, 1821-1833.	1.2	13
40	Immobilization of heparin on decellularized kidney scaffold to construct microenvironment for antithrombosis and inducing reendothelialization. <i>Science China Life Sciences</i> , 2018, 61, 1168-1177.	4.9	12
41	Ionomycin ameliorates hypophosphatasia via rescuing alkaline phosphatase deficiency-mediated L-type Ca <sup>2+</sup> channel internalization in mesenchymal stem cells. <i>Bone Research</i> , 2020, 8, 19.	11.4	9
42	Multifunctional hierarchical nanohybrids perform triple antitumor theranostics in a cascaded manner for effective tumor treatment. <i>Acta Biomaterialia</i> , 2021, 128, 408-419.	8.3	9
43	Induced membrane technique combined with antibiotic-loaded calcium sulfate-calcium phosphate composite as bone graft expander for the treatment of large infected bone defects: preliminary results of 12 cases. <i>Annals of Translational Medicine</i> , 2020, 8, 1081-1081.	1.7	8
44	Custom-Made Antibiotic Cement-Coated Nail for the Treatment of Infected Bone Defect. <i>BioMed Research International</i> , 2021, 2021, 1-12.	1.9	7
45	Apoptotic cell-derived micro/nanosized extracellular vesicles in tissue regeneration. <i>Nanotechnology Reviews</i> , 2022, 11, 957-972.	5.8	7
46	Activation of the Wnt/ $\beta$ -Catenin Pathway by an Inflammatory Microenvironment Affects the Myogenic Differentiation Capacity of Human Laryngeal Mucosa Mesenchymal Stromal Cells. <i>Stem Cells and Development</i> , 2018, 27, 771-782.	2.1	6
47	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. <i>Stem Cells International</i> , 2020, 2020, 1-11.	2.5	5
48	3D printing customized design of human bone tissue implant and its application. <i>Nanotechnology Reviews</i> , 2022, 11, 1792-1801.	5.8	5
49	Odontogenic MSC Heterogeneity: Challenges and Opportunities for Regenerative Medicine. <i>Frontiers in Physiology</i> , 2022, 13, 827470.	2.8	2