

# Yunsong Liu

## List of Publications by Citations

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69

papers

1,445

citations

21

h-index

36

g-index

81

ext. papers

1,940

ext. citations

6.9

avg, IF

4.87

L-index

#	Paper	IF	Citations
69	Wnt4 signaling prevents skeletal aging and inflammation by inhibiting nuclear factor- $\kappa$ B. <i>Nature Medicine</i> , <b>2014</b> , 20, 1009-17	50.5	142
68	The nanoscale geometry of TiO <sub>2</sub> nanotubes influences the osteogenic differentiation of human adipose-derived stem cells by modulating H3K4 trimethylation. <i>Biomaterials</i> , <b>2015</b> , 39, 193-205	15.6	136
67	Exosomes derived from miR-375-overexpressing human adipose mesenchymal stem cells promote bone regeneration. <i>Cell Proliferation</i> , <b>2019</b> , 52, e12669	7.9	113
66	Four-dimensional bioprinting: Current developments and applications in bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2020</b> , 101, 26-42	10.8	112
65	PGC-1 $\alpha$ Controls Skeletal Stem Cell Fate and Bone-Fat Balance in Osteoporosis and Skeletal Aging by Inducing TAZ. <i>Cell Stem Cell</i> , <b>2018</b> , 23, 193-209.e5	18	60
64	Injectable tissue-engineered bone composed of human adipose-derived stromal cells and platelet-rich plasma. <i>Biomaterials</i> , <b>2008</b> , 29, 3338-45	15.6	60
63	Inhibition of osteogenic differentiation of human adipose-derived stromal cells by retinoblastoma binding protein 2 repression of RUNX2-activated transcription. <i>Stem Cells</i> , <b>2011</b> , 29, 1112-25	5.8	56
62	MiR-34a Promotes Osteogenic Differentiation of Human Adipose-Derived Stem Cells via the RBP2/NOTCH1/CYCLIN D1 Coregulatory Network. <i>Stem Cell Reports</i> , <b>2016</b> , 7, 236-48	8	49
61	The epigenetic promotion of osteogenic differentiation of human adipose-derived stem cells by the genetic and chemical blockade of histone demethylase LSD1. <i>Biomaterials</i> , <b>2014</b> , 35, 6015-25	15.6	44
60	Long non-coding RNA MIAT knockdown promotes osteogenic differentiation of human adipose-derived stem cells. <i>Cell Biology International</i> , <b>2017</b> , 41, 33-41	4.5	41
59	Histone H3K9 Acetyltransferase PCAF Is Essential for Osteogenic Differentiation Through Bone Morphogenetic Protein Signaling and May Be Involved in Osteoporosis. <i>Stem Cells</i> , <b>2016</b> , 34, 2332-41	5.8	41
58	Single-Layer Graphene Enhances the Osteogenic Differentiation of Human Mesenchymal Stem Cells In Vitro and In Vivo. <i>Journal of Biomedical Nanotechnology</i> , <b>2016</b> , 12, 1270-84	4	38
57	A pure zinc membrane with degradability and osteogenesis promotion for guided bone regeneration: In vitro and in vivo studies. <i>Acta Biomaterialia</i> , <b>2020</b> , 106, 396-409	10.8	34
56	Histone Acetyltransferase GCN5 Regulates Osteogenic Differentiation of Mesenchymal Stem Cells by Inhibiting NF- $\kappa$ B. <i>Journal of Bone and Mineral Research</i> , <b>2016</b> , 31, 391-402	6.3	33
55	RSPO3-LGR4 Regulates Osteogenic Differentiation Of Human Adipose-Derived Stem Cells Via ERK/FGF Signalling. <i>Scientific Reports</i> , <b>2017</b> , 7, 42841	4.9	30
54	Co-administration of aspirin and allogeneic adipose-derived stromal cells attenuates bone loss in ovariectomized rats through the anti-inflammatory and chemotactic abilities of aspirin. <i>Stem Cell Research and Therapy</i> , <b>2015</b> , 6, 200	8.3	28
53	In vitro and in vivo investigation on biodegradable Mg-Li-Ca alloys for bone implant application. <i>Science China Materials</i> , <b>2019</b> , 62, 256-272	7.1	27

52	Lysine-specific demethylase 1 inhibitor rescues the osteogenic ability of mesenchymal stem cells under osteoporotic conditions by modulating H3K4 methylation. <i>Bone Research</i> , <b>2016</b> , 4, 16037	13.3	27
51	Effects of thermal treatment on the adhesion strength and osteoinductive activity of single-layer graphene sheets on titanium substrates. <i>Scientific Reports</i> , <b>2018</b> , 8, 8141	4.9	25
50	Controllable biodegradation and enhanced osseointegration of ZrO-nanofilm coated Zn-Li alloy: In vitro and in vivo studies. <i>Acta Biomaterialia</i> , <b>2020</b> , 105, 290-303	10.8	22
49	Bi-functionalization of a calcium phosphate-coated titanium surface with slow-release simvastatin and metronidazole to provide antibacterial activities and pro-osteodifferentiation capabilities. <i>PLoS ONE</i> , <b>2014</b> , 9, e97741	3.7	22
48	SIRT6 promotes osteogenic differentiation of mesenchymal stem cells through BMP signaling. <i>Scientific Reports</i> , <b>2017</b> , 7, 10229	4.9	18
47	Inhibition of SLC7A11 by Sulfasalazine Enhances Osteogenic Differentiation of Mesenchymal Stem Cells by Modulating BMP2/4 Expression and Suppresses Bone Loss in Ovariectomized Mice. <i>Journal of Bone and Mineral Research</i> , <b>2017</b> , 32, 508-521	6.3	17
46	Flow cytometric cell sorting and in vitro pre-osteinduction are not requirements for in vivo bone formation by human adipose-derived stromal cells. <i>PLoS ONE</i> , <b>2013</b> , 8, e56002	3.7	17
45	The epigenetic mechanisms of nanotopography-guided osteogenic differentiation of mesenchymal stem cells via high-throughput transcriptome sequencing. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 5605-5623	7.3	17
44	IGFBP2 enhances adipogenic differentiation potentials of mesenchymal stem cells from Wharton's jelly of the umbilical cord via JNK and Akt signaling pathways. <i>PLoS ONE</i> , <b>2017</b> , 12, e0184182	3.7	16
43	Biomaterial Cues Regulate Epigenetic State and Cell Functions-A Systematic Review. <i>Tissue Engineering - Part B: Reviews</i> , <b>2018</b> , 24, 112-132	7.9	16
42	Research status of biodegradable metals designed for oral and maxillofacial applications: A review. <i>Bioactive Materials</i> , <b>2021</b> , 6, 4186-4208	16.7	16
41	Inhibition of PTGS1 promotes osteogenic differentiation of adipose-derived stem cells by suppressing NF- $\kappa$ B signaling. <i>Stem Cell Research and Therapy</i> , <b>2019</b> , 10, 57	8.3	15
40	Mitochondrial Phosphoenolpyruvate Carboxykinase Regulates Osteogenic Differentiation by Modulating AMPK/ULK1-Dependent Autophagy. <i>Stem Cells</i> , <b>2019</b> , 37, 1542-1555	5.8	11
39	D-mannose attenuates bone loss in mice Treg cell proliferation and gut microbiota-dependent anti-inflammatory effects. <i>Therapeutic Advances in Chronic Disease</i> , <b>2020</b> , 11, 2040622320912661	4.9	11
38	LRRC15 promotes osteogenic differentiation of mesenchymal stem cells by modulating p65 cytoplasmic/nuclear translocation. <i>Stem Cell Research and Therapy</i> , <b>2018</b> , 9, 65	8.3	11
37	GSK3 inhibitor AR-A014418 promotes osteogenic differentiation of human adipose-derived stem cells via ERK and mTORC2/Akt signaling pathway. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 490, 182-188	3.4	8
36	Osteoinductive Effects of Free and Immobilized Bone Forming Peptide-1 on Human Adipose-Derived Stem Cells. <i>PLoS ONE</i> , <b>2016</b> , 11, e0150294	3.7	8
35	MiR-137 knockdown promotes the osteogenic differentiation of human adipose-derived stem cells via the LSD1/BMP2/SMAD4 signaling network. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 909-919	7	8

34	The impact of Zn-doped synthetic polymer materials on bone regeneration: a systematic review. <i>Stem Cell Research and Therapy</i> , <b>2021</b> , 12, 123	8.3	8
33	Human adipose-derived stem cells and simvastatin-functionalized biomimetic calcium phosphate to construct a novel tissue-engineered bone. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 495, 1264-1270	3.4	8
32	Fabrication and Application of a 3D-Printed Poly--Caprolactone Cage Scaffold for Bone Tissue Engineering. <i>BioMed Research International</i> , <b>2020</b> , 2020, 2087475	3	7
31	Low concentration flufenamic acid enhances osteogenic differentiation of mesenchymal stem cells and suppresses bone loss by inhibition of the NF- $\kappa$ B signaling pathway. <i>Stem Cell Research and Therapy</i> , <b>2019</b> , 10, 213	8.3	7
30	LAMA2 regulates the fate commitment of mesenchymal stem cells via hedgehog signaling. <i>Stem Cell Research and Therapy</i> , <b>2020</b> , 11, 135	8.3	6
29	Preliminary Clinical Application of Complete Workflow of Digitally Designed and Manufactured Sports Mouthguards. <i>International Journal of Prosthodontics</i> , <b>2020</b> , 33, 99-104	1.9	6
28	Preliminary clinical evaluation of traditional and a new digital PEEK occlusal splints for the management of sleep bruxism. <i>Journal of Oral Rehabilitation</i> , <b>2020</b> , 47, 1530-1537	3.4	6
27	The development of a 3D colour reproduction system of digital impressions with an intraoral scanner and a 3D printer: a preliminary study. <i>Scientific Reports</i> , <b>2019</b> , 9, 20052	4.9	6
26	Four-dimensional digital prediction of the esthetic outcome and digital implementation for rehabilitation in the esthetic zone. <i>Journal of Prosthetic Dentistry</i> , <b>2020</b> , 123, 557-563	4	6
25	UNC-5 netrin receptor B mediates osteogenic differentiation by modulating bone morphogenetic protein signaling in human adipose-derived stem cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 495, 1167-1174	3.4	6
24	3D-Printed PCL/Zn scaffolds for bone regeneration with a dose-dependent effect on osteogenesis and osteoclastogenesis.. <i>Materials Today Bio</i> , <b>2022</b> , 13, 100202	9.9	5
23	The Current Situation and Future Prospects of Simulators in Dental Education. <i>Journal of Medical Internet Research</i> , <b>2021</b> , 23, e23635	7.6	5
22	RAI3 knockdown promotes adipogenic differentiation of human adipose-derived stem cells by decreasing Eatenin levels. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 493, 618-624	3.4	4
21	Redox/pH-Responsive Biodegradable Thiol-Hyaluronic Acid/Chitosan Charge-Reversal Nanocarriers for Triggered Drug Release. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
20	Improving the quality of preclinical simulation training for dental students using a new digital real-time evaluation system. <i>European Journal of Dental Education</i> , <b>2021</b> , 25, 100-107	2.5	4
19	Knockdown of ARL4C inhibits osteogenic differentiation of human adipose-derived stem cells through disruption of the Wnt signaling pathway. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 497, 256-263	3.4	3
18	DUSP5 Promotes Osteogenic Differentiation Through SCP1/2-Dependent Phosphorylation of SMAD1. <i>Stem Cells</i> , <b>2021</b> , 39, 1395-1409	5.8	3
17	A pilot study of a deep learning approach to detect marginal bone loss around implants.. <i>BMC Oral Health</i> , <b>2022</b> , 22, 11	3.7	3

16	DUSP5 promotes osteogenic differentiation through SCP1/2-dependent phosphorylation of SMAD1. <i>Stem Cells</i> , <b>2021</b> , 39, 1395-1409	5.8	3
15	Flufenamic Acid Inhibits Adipogenic Differentiation of Mesenchymal Stem Cells by Antagonizing the PI3K/AKT Signaling Pathway. <i>Stem Cells International</i> , <b>2020</b> , 2020, 1540905	5	3
14	CDC20 promotes bone formation via APC/C dependent ubiquitination and degradation of p65. <i>EMBO Reports</i> , <b>2021</b> , 22, e52576	6.5	3
13	Photocrosslinkable Col/PCL/Mg composite membrane providing spatiotemporal maintenance and positive osteogenetic effects during guided bone regeneration.. <i>Bioactive Materials</i> , <b>2022</b> , 13, 53-63	16.7	2
12	Heterodimeric BMP-2/7 exhibits different osteoinductive effects in human and murine cells. <i>Growth Factors</i> , <b>2018</b> , 36, 141-152	1.6	2
11	Evaluation of accuracy and characteristics of tooth-color matching by intraoral scanners based on Munsell color system: an in vivo study.. <i>Odontology / the Society of the Nippon Dental University</i> , <b>2022</b> , 1	3.6	1
10	Comparison of the accuracy (trueness and precision) of virtual dentofacial patients digitized by three different methods based on 3D facial and dental images.. <i>Journal of Prosthetic Dentistry</i> , <b>2022</b> ,	4	1
9	The effect of near-infrared light-assisted photothermal therapy combined with polymer materials on promoting bone regeneration: a systematic review. <i>Materials and Design</i> , <b>2022</b> , 110621	8.1	1
8	The PCK2-glycolysis axis assists three-dimensional-stiffness maintaining stem cell osteogenesis.. <i>Bioactive Materials</i> , <b>2022</b> , 18, 492-506	16.7	1
7	Mixed Reality and Haptic-Based Dental Simulator for Tooth Preparation: Research, Development, and Preliminary Evaluation.. <i>JMIR Serious Games</i> , <b>2022</b> , 10, e30653	3.4	0
6	Effect of free gingival graft before implant placement on peri-implant health and soft tissue changes: a randomized controlled trial. <i>BMC Oral Health</i> , <b>2021</b> , 21, 492	3.7	0
5	Conditional knockout of Cdc20 attenuates osteogenesis in craniofacial bones. <i>Tissue and Cell</i> , <b>2022</b> , 77, 101829	2.7	0
4	UNC-5 netrin receptor B regulates adipogenesis of human adipose-derived stem cells through JNK pathway. <i>Journal of Oral Rehabilitation</i> , <b>2020</b> , 47 Suppl 1, 91-98	3.4	
3	Aldo-keto reductase family 1 member C1 regulates the osteogenic differentiation of human ASCs by targeting the progesterone receptor. <i>Stem Cell Research and Therapy</i> , <b>2021</b> , 12, 383	8.3	
2	Baseline selection for evaluation of peri-implant soft tissue changes: a clinical trial. <i>Annals of Translational Medicine</i> , <b>2021</b> , 9, 1494	3.2	
1	Is extracellular matrix (ECM) a promising scaffold biomaterial for bone repair?. <i>Histology and Histopathology</i> , <b>2021</b> , 18370	1.4	