

# Hongbin Lu

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

2,266  
citations

185998

28  
h-index

276539

41  
g-index

98  
all docs

98  
docs citations

98  
times ranked

2524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effectiveness and Safety of Inelastic Versus Elastic Lumbosacral Orthoses on Low Back Pain Prevention in Healthy Nurses. <i>Spine</i> , 2022, 47, 656-665.	1.0	1
2	Characterize the microstructure change after tendon enthesis injury using synchrotron radiation $\mu$ CT. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2678-2687.	1.2	7
3	Engineering an enthesis-like graft for rotator cuff repair: An approach to fabricate highly biomimetic scaffold capable of zone-specifically releasing stem cell differentiation inducers. <i>Bioactive Materials</i> , 2022, 16, 451-471.	8.6	18
4	Mechanical stimulation promotes enthesis injury repair by mobilizing Prrx1+ cells via ciliary TGF- $\beta$ 2 signaling. <i>ELife</i> , 2022, 11, .	2.8	9
5	Treadmill running initiation times and bone-tendon interface repair in a murine rotator cuff repair model. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2017-2027.	1.2	11
6	Treadmill exercise facilitated rotator cuff healing is coupled with regulating periphery neuropeptides expression in a murine model. <i>Journal of Orthopaedic Research</i> , 2021, 39, 680-692.	1.2	21
7	Sustained release of collagen affinity SDF-1 $\alpha$ from book-shaped acellular fibrocartilage scaffold enhanced bone-tendon healing in a rabbit model. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1331-1343.	1.2	7
8	Effect of book-shaped acellular tendon scaffold with bone marrow mesenchymal stem cells sheets on bone-tendon interface healing. <i>Journal of Orthopaedic Translation</i> , 2021, 26, 162-170.	1.9	19
9	A combinatorial method to visualize the neuronal network in the mouse spinal cord: combination of a modified Golgi-Cox method and synchrotron radiation micro-computed tomography. <i>Histochemistry and Cell Biology</i> , 2021, 155, 477-489.	0.8	6
10	Acceleration of Bone-Tendon Interface Healing by Low-Intensity Pulsed Ultrasound Is Mediated by Macrophages. <i>Physical Therapy</i> , 2021, 101, .	1.1	8
11	The Enhancement Effect of Acetylcholine and Pyridostigmine on Bone-Tendon Interface Healing in a Murine Rotator Cuff Model. <i>American Journal of Sports Medicine</i> , 2021, 49, 909-917.	1.9	6
12	Cell-Free Book-Shaped Decellularized Tendon Matrix Graft Capable of Controlled Release of BMP-12 to Improve Tendon Healing in a Rat Model. <i>American Journal of Sports Medicine</i> , 2021, 49, 1333-1347.	1.9	10
13	A biomechanical comparison of a mesh suture to a polyblend suture in a porcine tendon model. <i>Annals of Translational Medicine</i> , 2021, 9, 450-450.	0.7	4
14	Adipose-Derived Stromal Cell-Sheets Sandwiched, Book-Shaped Acellular Dermal Matrix Capable of Sustained Release of Basic Fibroblast Growth Factor Promote Diabetic Wound Healing. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 646967.	1.8	11
15	Characterization of the distributions of collagen and PGs content in the decellularized book-shaped enthesis scaffolds by SR-FTIR. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 235.	0.8	6
16	Recombinant human bone morphogenetic protein-4 enhances tendon-to-bone attachment healing in a murine model of rotator cuff tear. <i>Annals of Translational Medicine</i> , 2021, 9, 565-565.	0.7	4
17	Effect of Exercise Intensity on the Healing of the Bone-Tendon Interface: A Mouse Rotator Cuff Injury Model Study. <i>American Journal of Sports Medicine</i> , 2021, 49, 2064-2073.	1.9	12
18	The Long Non-coding RNA NEAT1/miR-224-5p/IL-33 Axis Modulates Macrophage M2a Polarization and A1 Astrocyte Activation. <i>Molecular Neurobiology</i> , 2021, 58, 4506-4519.	1.9	14

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19	Calcitonin Gene-Related Peptide Influences Bone-Tendon Interface Healing Through Osteogenesis: Investigation in a Rabbit Partial Patellectomy Model. <i>Orthopaedic Journal of Sports Medicine</i> , 2021, 9, 232596712110039.	0.8	6
20	Microglia-Derived Exosomes Improve Spinal Cord Functional Recovery after Injury via Inhibiting Oxidative Stress and Promoting the Survival and Function of Endothelial Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-16.	1.9	19
21	Bone Marrow Mesenchymal Stem Cell-Derived Exosome-Educated Macrophages Promote Functional Healing After Spinal Cord Injury. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 725573.	1.8	15
22	Exosomal OTULIN from M2 macrophages promotes the recovery of spinal cord injuries via stimulating Wnt/ $\beta$ -catenin pathway-mediated vascular regeneration. <i>Acta Biomaterialia</i> , 2021, 136, 519-532.	4.1	41
23	Local delivery of USC-derived exosomes harboring ANGPTL3 enhances spinal cord functional recovery after injury by promoting angiogenesis. <i>Stem Cell Research and Therapy</i> , 2021, 12, 20.	2.4	54
24	Early treadmill running delays rotator cuff healing via Neuropeptide Y mediated inactivation of the Wnt/ $\beta$ -catenin signaling. <i>Journal of Orthopaedic Translation</i> , 2021, 30, 103-111.	1.9	16
25	Microglia-Derived Exosomal microRNA-151-3p Enhances Functional Healing After Spinal Cord Injury by Attenuating Neuronal Apoptosis via Regulating the p53/p21/CDK1 Signaling Pathway. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 783017.	1.8	21
26	Treatment of chronic lateral ankle instability by double-band anatomical reconstruction of the anterior talofibular ligament's fibular enthesis. <i>Journal of Central South University (Medical)</i> 10(5):457-462.	0.0	0
27	Isolation and Characterization of Multipotent Canine Urine-Derived Stem Cells. <i>Stem Cells International</i> , 2020, 2020, 1-12.	1.2	5
28	3D-Printed Extracellular Matrix/Polyethylene Glycol Diacrylate Hydrogel Incorporating the Anti-inflammatory Phytomolecule Honokiol for Regeneration of Osteochondral Defects. <i>American Journal of Sports Medicine</i> , 2020, 48, 2808-2818.	1.9	59
29	Periosteum progenitors could stimulate bone regeneration in aged murine bone defect model. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 12199-12210.	1.6	22
30	Structure and ingredient-based biomimetic scaffolds combining with autologous bone marrow-derived mesenchymal stem cell sheets for bone-tendon healing. <i>Biomaterials</i> , 2020, 241, 119837.	5.7	48
31	Comparison of bone surface and trough fixation on bone-tendon healing in a rabbit patella patellar tendon injury model. <i>Journal of Orthopaedic Translation</i> , 2020, 21, 49-56.	1.9	7
32	Functional decellularized fibrocartilaginous matrix graft for rotator cuff enthesis regeneration: A novel technique to avoid in-vitro loading of cells. <i>Biomaterials</i> , 2020, 250, 119996.	5.7	39
33	SRI $\beta$ 4CT Reveals 3D Microstructural Alterations of the Vascular and Neuronal Network in a Rat Model of Chronic Compressive Thoracic Spinal Cord Injury. <i>Journal of Cellular Biochemistry</i> , 2020, 11, 603.	0.0	11
34	Designing a novel vacuum aspiration system to decellularize large-size enthesis with preservation of physicochemical and biological properties. <i>Annals of Translational Medicine</i> , 2020, 8, 1364.	0.7	1
35	Designing a novel vacuum aspiration system to decellularize large-size enthesis with preservation of physicochemical and biological properties. <i>Annals of Translational Medicine</i> , 2020, 8, 1364-1364.	0.7	9
36	Tendon Healing in Bone Tunnel after Human Anterior Cruciate Ligament Reconstruction: A Systematic Review of Histological Results. <i>Journal of Knee Surgery</i> , 2019, 32, 454-462.	0.9	34

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37	The protective effect of microRNA-21 in neurons after spinal cord injury. <i>Spinal Cord</i> , 2019, 57, 141-149.	0.9	39
38	Rapid Detection of Mycoplasma-Infected Cells by an ssDNA Aptamer Probe. <i>ACS Sensors</i> , 2019, 4, 2028-2038.	4.0	15
39	UTX/KDM6A Deletion Promotes Recovery of Spinal Cord Injury by Epigenetically Regulating Vascular Regeneration. <i>Molecular Therapy</i> , 2019, 27, 2134-2146.	3.7	50
40	Autologous Freeze-Dried, Platelet-Rich Plasma Carrying Icariin Enhances Bone-Tendon Healing in a Rabbit Model. <i>American Journal of Sports Medicine</i> , 2019, 47, 1964-1974.	1.9	19
41	Effect of Low-Intensity Pulsed Ultrasound After Autologous Adipose-Derived Stromal Cell Transplantation for Bone-Tendon Healing in a Rabbit Model. <i>American Journal of Sports Medicine</i> , 2019, 47, 942-953.	1.9	28
42	Comparative Evaluation of the Book-Shaped Acellular Bone Scaffold and Fibrocartilage Scaffold for Bone-Tendon Healing. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1709-1722.	1.2	13
43	Book-shaped decellularized tendon matrix scaffold combined with bone marrow mesenchymal stem cells sheets for repair of achilles tendon defect in rabbit. <i>Journal of Orthopaedic Research</i> , 2019, 37, 887-897.	1.2	31
44	CTGF induces tenogenic differentiation and proliferation of adipose-derived stromal cells. <i>Journal of Orthopaedic Research</i> , 2019, 37, 574-582.	1.2	33
45	Unilateral Osteotomy of Lumbar Facet Joint Induces a Mouse Model of Lumbar Facet Joint Osteoarthritis. <i>Spine</i> , 2019, 44, E930-E938.	1.0	7
46	Sensory innervation in porous endplates by Netrin-1 from osteoclasts mediates PGE2-induced spinal hypersensitivity in mice. <i>Nature Communications</i> , 2019, 10, 5643.	5.8	72
47	Tendon pathology in hypercholesterolaemia patients: Epidemiology, pathogenesis and management. <i>Journal of Orthopaedic Translation</i> , 2019, 16, 14-22.	1.9	21
48	Book-Shaped Acellular Fibrocartilage Scaffold with Cell-loading Capability and Chondrogenic Inducibility for Tissue-Engineered Fibrocartilage and Bone-Tendon Healing. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2891-2907.	4.0	55
49	Synchrotron Radiation Imaging Reveals the Role of Estrogen in Promoting Angiogenesis After Acute Spinal Cord Injury in Rats. <i>Spine</i> , 2018, 43, 1241-1249.	1.0	18
50	Low-Intensity Pulsed Ultrasound Stimulation for Tendon-Bone Healing. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2018, 97, 270-277.	0.7	14
51	Three-dimensional characterization of the microstructure in rabbit patella-patellar tendon interface using propagation phase-contrast synchrotron radiation microtomography. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1833-1840.	1.0	12
52	Ciliary parathyroid hormone signaling activates transforming growth factor- $\beta^2$ to maintain intervertebral disc homeostasis during aging. <i>Bone Research</i> , 2018, 6, 21.	5.4	59
53	SR-FTIR as a tool for quantitative mapping of the content and distribution of extracellular matrix in decellularized book-shape bioscaffolds. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 220.	0.8	22
54	Anatomic reconstruction of anterior talofibular ligament with tibial tuberosity-patellar tendon autograft for chronic lateral ankle instability. <i>Journal of Orthopaedic Surgery</i> , 2018, 26, 230949901878087.	0.4	11

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55	Feasibility study for evaluating early lumbar facet joint degeneration using axial $T_1$ -weighted, and mapping in cartilage. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 468-475.	1.9	8
56	3D characterization of morphological changes in the intervertebral disc and endplate during aging: A propagation phase contrast synchrotron micro-tomography study. <i>Scientific Reports</i> , 2017, 7, 43094.	1.6	19
57	Nondestructive imaging of the internal microstructure of vessels and nerve fibers in rat spinal cord using phase-contrast synchrotron radiation microtomography. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 482-489.	1.0	15
58	Comparison of Synchrotron Radiation-based Propagation Phase Contrast Imaging and Conventional Micro-computed Tomography for Assessing Intervertebral Discs and Endplates in a Murine Model. <i>Spine</i> , 2017, 42, E883-E889.	1.0	15
59	Osteopontin, Bone Morphogenetic Protein-4, and Vitamin D Receptor Gene Polymorphisms in the Susceptibility and Clinical Severity of Spinal Tuberculosis. <i>Cellular Physiology and Biochemistry</i> , 2017, 41, 1881-1893.	1.1	9
60	Genetic factors of cervical spondylotic myelopathy-a systemic review. <i>Journal of Clinical Neuroscience</i> , 2017, 44, 89-94.	0.8	10
61	Three Dimensional Quantification of Microarchitecture and Vessel Regeneration by Synchrotron Radiation Microcomputed Tomography in a Rat Model of Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 1187-1199.	1.7	30
62	Correlation study between facet joint cartilage and intervertebral discs in early lumbar vertebral degeneration using $T_2$ , $T_2^*$ and $T_1$ -mapping. <i>PLoS ONE</i> , 2017, 12, e0178406.	1.1	8
63	MicroRNA-336 directly targets Sox-2 in osteosarcoma to inhibit tumorigenesis. <i>Molecular Medicine Reports</i> , 2017, 15, 4217-4224.	1.1	3
64	Histological observation of a gelatin sponge transplant loaded with bone marrow-derived mesenchymal stem cells combined with platelet-rich plasma in repairing an annulus defect. <i>PLoS ONE</i> , 2017, 12, e0171500.	1.1	22
65	The Angiogenic Effect of microRNA-21 Targeting TIMP3 through the Regulation of MMP2 and MMP9. <i>PLoS ONE</i> , 2016, 11, e0149537.	1.1	64
66	Micro-CT as a Tool to Investigate the Efficacy of Tetramethylpyrazine in a Rat Spinal Cord Injury Model. <i>Spine</i> , 2016, 41, 1272-1278.	1.0	16
67	Visualization of mouse spinal cord intramedullary arteries using phase- and attenuation-contrast tomographic imaging. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 966-974.	1.0	6
68	C-C motif chemokine ligand 20 regulates neuroinflammation following spinal cord injury via Th17 cell recruitment. <i>Journal of Neuroinflammation</i> , 2016, 13, 162.	3.1	36
69	Lentivirus-mediated PGC-1 $\alpha$ overexpression protects against traumatic spinal cord injury in rats. <i>Neuroscience</i> , 2016, 328, 40-49.	1.1	24
70	The effect of low-intensity pulsed ultrasound on bone-tendon junction healing: Initiating after inflammation stage. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1697-1706.	1.2	36
71	Initiation Timing of Low-Intensity Pulsed Ultrasound Stimulation for Tendon-Bone Healing in a Rabbit Model. <i>American Journal of Sports Medicine</i> , 2016, 44, 2706-2715.	1.9	49
72	3D visualization of the lumbar facet joint after degeneration using propagation phase contrast micro-tomography. <i>Scientific Reports</i> , 2016, 6, 21838.	1.6	12

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73	Three-dimensional imaging of microvasculature in the rat spinal cord following injury. <i>Scientific Reports</i> , 2015, 5, 12643.	1.6	58
74	Effects of Low-Intensity Pulsed Ultrasound on New Trabecular Bone during Bone-Tendon Junction Healing in a Rabbit Model: A Synchrotron Radiation Micro-CT Study. <i>PLoS ONE</i> , 2015, 10, e0124724.	1.1	18
75	The Neuroprotective Effect of Tetramethylpyrazine Against Contusive Spinal Cord Injury by Activating PGC-1 $\alpha$ in Rats. <i>Neurochemical Research</i> , 2015, 40, 1393-1401.	1.6	38
76	Porous biphasic calcium phosphate ceramics coated with nano-hydroxyapatite and seeded with mesenchymal stem cells for reconstruction of radius segmental defects in rabbits. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 257.	1.7	19
77	miR-126 promotes angiogenesis and attenuates inflammation after contusion spinal cord injury in rats. <i>Brain Research</i> , 2015, 1608, 191-202.	1.1	109
78	Preparation and Characterization of a Novel Decellularized Fibrocartilage Scaffolds for Use in Tissue Engineering. <i>PLoS ONE</i> , 2015, 10, e0144240.	1.1	17
79	Comment on Quinn et al.: the use of postoperative suction drainage in total knee arthroplasty: a systematic review. <i>International Orthopaedics</i> , 2014, 38, 2651-2652.	0.9	0
80	High-resolution three-dimensional visualization of the rat spinal cord microvasculature by synchrotron radiation micro-CT. <i>Medical Physics</i> , 2014, 41, 101904.	1.6	35
81	Combined application of low-intensity pulsed ultrasound and functional electrical stimulation accelerates bone-tendon junction healing in a rabbit model. <i>Journal of Orthopaedic Research</i> , 2014, 32, 204-209.	1.2	53
82	Enhanced Patella Patellar Tendon Healing Using Combined Magnetic Fields in a Rabbit Model. <i>American Journal of Sports Medicine</i> , 2014, 42, 2495-2501.	1.9	39
83	Clinical outcomes of remnant preserving augmentation in anterior cruciate ligament reconstruction: a systematic review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 1976-1985.	2.3	53
84	Effect of nano-hydroxyapatite coating on the osteoinductivity of porous biphasic calcium phosphate ceramics. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 114.	0.8	64
85	Reply to comment on Hu et al. Allograft versus autograft for anterior cruciate ligament reconstruction: an up-to-date meta-analysis of prospective studies. <i>International Orthopaedics</i> , 2013, 37, 775-776.	0.9	1
86	Allograft versus autograft for anterior cruciate ligament reconstruction: an up-to-date meta-analysis of prospective studies. <i>International Orthopaedics</i> , 2013, 37, 311-320.	0.9	68
87	Area, length and mineralization content of new bone at bone-tendon junction predict its repair quality. <i>Journal of Orthopaedic Research</i> , 2011, 29, 672-677.	1.2	21
88	Low-Intensity Pulsed Ultrasound Accelerated Bone-Tendon Junction Healing Through Regulation of Vascular Endothelial Growth Factor Expression and Cartilage Formation. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1248-1260.	0.7	104
89	Low-Intensity Pulsed Ultrasound Accelerates Bone-Tendon Junction Healing. <i>American Journal of Sports Medicine</i> , 2006, 34, 1287-1296.	1.9	82