

# Hongbin Lu

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

2,266  
citations

186265

28  
h-index

276875

41  
g-index

98  
all docs

98  
docs citations

98  
times ranked

2524  
citing authors

#	ARTICLE	IF	CITATIONS
1	miR-126 promotes angiogenesis and attenuates inflammation after contusion spinal cord injury in rats. <i>Brain Research</i> , 2015, 1608, 191-202.	2.2	109
2	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.	1.5	104
3	Low-Intensity Pulsed Ultrasound Accelerates Bone-Tendon Junction Healing. <i>American Journal of Sports Medicine</i> , 2006, 34, 1287-1296.	4.2	82
4	Sensory innervation in porous endplates by Netrin-1 from osteoclasts mediates PGE2-induced spinal hypersensitivity in mice. <i>Nature Communications</i> , 2019, 10, 5643.	12.8	72
5	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.	1.9	68
6	Effect of nano-hydroxyapatite coating on the osteoinductivity of porous biphasic calcium phosphate ceramics. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 114.	1.9	64
7	The Angiogenic Effect of microRNA-21 Targeting TIMP3 through the Regulation of MMP2 and MMP9. <i>PLoS ONE</i> , 2016, 11, e0149537.	2.5	64
8	Ciliary parathyroid hormone signaling activates transforming growth factor- $\beta^2$ to maintain intervertebral disc homeostasis during aging. <i>Bone Research</i> , 2018, 6, 21.	11.4	59
9	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.	4.2	59
10	Three-dimensional imaging of microvasculature in the rat spinal cord following injury. <i>Scientific Reports</i> , 2015, 5, 12643.	3.3	58
11	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.	8.0	55
12	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.	5.5	54
13	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.	2.3	53
14	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.	4.2	53
15	UTX/KDM6A Deletion Promotes Recovery of Spinal Cord Injury by Epigenetically Regulating Vascular Regeneration. <i>Molecular Therapy</i> , 2019, 27, 2134-2146.	8.2	50
16	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.	4.2	49
17	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.	11.4	48
18	Exosomal OTULIN from M2 macrophages promotes the recovery of spinal cord injuries via stimulating Wnt/ $\beta^2$ -catenin pathway-mediated vascular regeneration. <i>Acta Biomaterialia</i> , 2021, 136, 519-532.	8.3	41

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19	Enhanced Patella Patellar Tendon Healing Using Combined Magnetic Fields in a Rabbit Model. American Journal of Sports Medicine, 2014, 42, 2495-2501.	4.2	39
20	The protective effect of microRNA-21 in neurons after spinal cord injury. Spinal Cord, 2019, 57, 141-149.	1.9	39
21	Functional decellularized fibrocartilaginous matrix graft for rotator cuff enthesis regeneration: A novel technique to avoid in-vitro loading of cells. Biomaterials, 2020, 250, 119996.	11.4	39
22	The Neuroprotective Effect of Tetramethylpyrazine Against Contusive Spinal Cord Injury by Activating PGC-1 $\alpha$ in Rats. Neurochemical Research, 2015, 40, 1393-1401.	3.3	38
23	C-C motif chemokine ligand 20 regulates neuroinflammation following spinal cord injury via Th17 cell recruitment. Journal of Neuroinflammation, 2016, 13, 162.	7.2	36
24	The effect of low-intensity pulsed ultrasound on bone-tendon junction healing: Initiating after inflammation stage. Journal of Orthopaedic Research, 2016, 34, 1697-1706.	2.3	36
25	High-resolution three-dimensional visualization of the rat spinal cord microvasculature by synchrotron radiation micro-CT. Medical Physics, 2014, 41, 101904.	3.0	35
26	Tendon Healing in Bone Tunnel after Human Anterior Cruciate Ligament Reconstruction: A Systematic Review of Histological Results. Journal of Knee Surgery, 2019, 32, 454-462.	1.6	34
27	CTGF induces tenogenic differentiation and proliferation of adipose-derived stromal cells. Journal of Orthopaedic Research, 2019, 37, 574-582.	2.3	33
28	Book-shaped decellularized tendon matrix scaffold combined with bone marrow mesenchymal stem cells sheets for repair of achilles tendon defect in rabbit. Journal of Orthopaedic Research, 2019, 37, 887-897.	2.3	31
29	Three Dimensional Quantification of Microarchitecture and Vessel Regeneration by Synchrotron Radiation Microcomputed Tomography in a Rat Model of Spinal Cord Injury. Journal of Neurotrauma, 2017, 34, 1187-1199.	3.4	30
30	Effect of Low-Intensity Pulsed Ultrasound After Autologous Adipose-Derived Stromal Cell Transplantation for Bone-Tendon Healing in a Rabbit Model. American Journal of Sports Medicine, 2019, 47, 942-953.	4.2	28
31	Lentivirus-mediated PGC-1 $\alpha$ overexpression protects against traumatic spinal cord injury in rats. Neuroscience, 2016, 328, 40-49.	2.3	24
32	SR-FTIR as a tool for quantitative mapping of the content and distribution of extracellular matrix in decellularized book-shape bioscaffolds. BMC Musculoskeletal Disorders, 2018, 19, 220.	1.9	22
33	Periosteum progenitors could stimulate bone regeneration in aged murine bone defect model. Journal of Cellular and Molecular Medicine, 2020, 24, 12199-12210.	3.6	22
34	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. PLoS ONE, 2017, 12, e0171500.	2.5	22
35	Area, length and mineralization content of new bone at bone-tendon junction predict its repair quality. Journal of Orthopaedic Research, 2011, 29, 672-677.	2.3	21
36	Tendon pathology in hypercholesterolaemia patients: Epidemiology, pathogenesis and management. Journal of Orthopaedic Translation, 2019, 16, 14-22.	3.9	21

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37	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.	2.3	21
38	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.	3.7	21
39	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.	3.6	19
40	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.	3.3	19
41	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.	4.2	19
42	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.	3.9	19
43	Microglia-Derived Exosomes Improve Spinal Cord Functional Recovery after Injury via Inhibiting Oxidative Stress and Promoting the Survival and Function of Endothelia Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-16.	4.0	19
44	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.	2.5	18
45	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.	2.0	18
46	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.	15.6	18
47	Preparation and Characterization of a Novel Decellularized Fibrocartilage Scaffold for Use in Tissue Engineering. <i>PLoS ONE</i> , 2015, 10, e0144240.	2.5	17
48	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.	2.0	16
49	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.	3.9	16
50	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.	2.4	15
51	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.	2.0	15
52	Rapid Detection of Mycoplasma-Infected Cells by an ssDNA Aptamer Probe. <i>ACS Sensors</i> , 2019, 4, 2028-2038.	7.8	15
53	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.	3.7	15
54	Low-Intensity Pulsed Ultrasound Stimulation for Tendon-Bone Healing. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2018, 97, 270-277.	1.4	14

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55	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.	4.0	14
56	Comparative Evaluation of the Bookâ€Type Acellular Bone Scaffold and Fibrocartilage Scaffold for Boneâ€Tendon Healing. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1709-1722.	2.3	13
57	3D visualization of the lumbar facet joint after degeneration using propagation phase contrast micro-tomography. <i>Scientific Reports</i> , 2016, 6, 21838.	3.3	12
58	Three-dimensional characterization of the microstructure in rabbit patellaâ€patellar tendon interface using propagation phase-contrast synchrotron radiation microtomography. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1833-1840.	2.4	12
59	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.	4.2	12
60	Anatomic reconstruction of anterior talofibular ligament with tibial tuberosityâ€patellar tendon autograft for chronic lateral ankle instability. <i>Journal of Orthopaedic Surgery</i> , 2018, 26, 230949901878087.	1.0	11
61	Treadmill running initiation times and boneâ€tendon interface repair in a murine rotator cuff repair model. <i>Journal of Orthopaedic Research</i> , 2021, 39, 2017-2027.	2.3	11
62	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.	3.7	11
63	SRÎ¼CT Reveals 3D Microstructural Alterations of the Vascular and Neuronal Network in a Rat Model of Chronic Compressive Thoracic Spinal Cord Injury. , 2020, 11, 603.		11
64	Genetic factors of cervical spondylotic myelopathy-a systemic review. <i>Journal of Clinical Neuroscience</i> , 2017, 44, 89-94.	1.5	10
65	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.	4.2	10
66	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.	1.6	9
67	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.	1.7	9
68	Mechanical stimulation promotes enthesis injury repair by mobilizing Prrx1+ cells via ciliary TGF-Î² signaling. <i>ELife</i> , 2022, 11, .	6.0	9
69	Feasibility study for evaluating early lumbar facet joint degeneration using axial <i>T</i><sub>1</sub>; <i>T</i><sub>2</sub>, and mapping in cartilage. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 468-475.	3.4	8
70	Correlation study between facet joint cartilage and intervertebral discs in early lumbar vertebral degeneration using T2, T2* and T1Î±mapping. <i>PLoS ONE</i> , 2017, 12, e0178406.	2.5	8
71	Acceleration of Bone-Tendon Interface Healing by Low-Intensity Pulsed Ultrasound Is Mediated by Macrophages. <i>Physical Therapy</i> , 2021, 101, .	2.4	8
72	Unilateral Osteotomy of Lumbar Facet Joint Induces a Mouse Model of Lumbar Facet Joint Osteoarthritis. <i>Spine</i> , 2019, 44, E930-E938.	2.0	7

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73	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.	3.9	7
74	Sustained release of collagen affinity SDF-1 $\beta$ from book-shaped acellular fibrocartilage scaffold enhanced bone-tendon healing in a rabbit model. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1331-1343.	2.3	7
75	Characterize the microstructure change after tendon enthesis injury using synchrotron radiation $\mu$ CT. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2678-2687.	2.3	7
76	Visualization of mouse spinal cord intramedullary arteries using phase- and attenuation-contrast tomographic imaging. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 966-974.	2.4	6
77	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.	1.7	6
78	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.	4.2	6
79	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.	1.9	6
80	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.	1.7	6
81	Isolation and Characterization of Multipotent Canine Urine-Derived Stem Cells. <i>Stem Cells International</i> , 2020, 2020, 1-12.	2.5	5
82	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.	1.7	4
83	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.	1.7	4
84	MicroRNA-336 directly targets Sox-2 in osteosarcoma to inhibit tumorigenesis. <i>Molecular Medicine Reports</i> , 2017, 15, 4217-4224.	2.4	3
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.	1.9	1
86	Effectiveness and Safety of Inelastic Versus Elastic Lumbosacral Orthoses on Low Back Pain Prevention in Healthy Nurses. <i>Spine</i> , 2022, 47, 656-665.	2.0	1
87	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.	1.7	1
88	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.	1.9	0
89	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> Tj ETQq1 1 0.784314 10.1007/s11808-020-01000-0	0.8	0