

# Lianfu Deng

## List of Publications by Year in descending order

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113  
papers

5,286  
citations

81900

39  
h-index

102487

66  
g-index

121  
all docs

121  
docs citations

121  
times ranked

5154  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulated macrophage immune microenvironment in 3D printed scaffolds for bone tumor postoperative treatment. <i>Bioactive Materials</i> , 2023, 19, 474-485.	15.6	11
2	Gelatin-based composite hydrogels with biomimetic lubrication and sustained drug release. <i>Friction</i> , 2022, 10, 232-246.	6.4	23
3	Self-Healing Hydrogel Embodied with Macrophage Regulation and Responsive Gene Silencing Properties for Synergistic Prevention of Peritendinous Adhesion. <i>Advanced Materials</i> , 2022, 34, e2106564.	21.0	95
4	Periosteal CD68 <sup>+</sup> F4/80 <sup>+</sup> Macrophages Are Mechanosensitive for Cortical Bone Formation by Secretion and Activation of TGF- $\beta$ 1. <i>Advanced Science</i> , 2022, 9, e2103343.	11.2	24
5	Engineering immunomodulatory and osteoinductive implant surfaces via mussel adhesion-mediated ion coordination and molecular clicking. <i>Nature Communications</i> , 2022, 13, 160.	12.8	66
6	Silencing Gene-Engineered Injectable Hydrogel Microsphere for Regulation of Extracellular Matrix Metabolism Balance. <i>Small Methods</i> , 2022, 6, e2101201.	8.6	24
7	Transcriptome Analysis Revealed the Symbiosis Niche of 3D Scaffolds to Accelerate Bone Defect Healing. <i>Advanced Science</i> , 2022, 9, e2105194.	11.2	31
8	The osteoprotective role of USP26 in coordinating bone formation and resorption. <i>Cell Death and Differentiation</i> , 2022, 29, 1123-1136.	11.2	19
9	Injectable nano-micron-combined gene-hydrogel microspheres for local treatment of osteoarthritis. <i>NPG Asia Materials</i> , 2022, 14, .	7.9	58
10	Endogenous Electric Field-Coupled Electrospun Short Fiber via Collecting Wound Exudation. <i>Advanced Materials</i> , 2022, 34, e2108325.	21.0	75
11	Motor Unit Number Estimation of the Second Lumbrical Muscle in Human Hand. <i>Frontiers in Physiology</i> , 2022, 13, 854385.	2.8	1
12	Endogenous Electric Field-Coupled Electrospun Short Fiber via Collecting Wound Exudation (Adv.) <i>Tj ETQqO O 0,rgBT /Overlock 10 T</i>	21.0	2
13	Bipolar Metal Flexible Electrospun Fibrous Membrane Based on Metal-Organic Framework for Gradient Healing of Tendon-Bone Interface Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200072.	7.6	14
14	Î±-Asarone Attenuates Osteoclastogenesis and Prevents Against Oestrogen-Deficiency Induced Osteoporosis. <i>Frontiers in Pharmacology</i> , 2022, 13, 780590.	3.5	6
15	Open-Shell Nanosensitizers for Glutathione Responsive Cancer Sonodynamic Therapy. <i>Advanced Materials</i> , 2022, 34, e2110283.	21.0	48
16	A Biomaterial-Based Hedging Immune Strategy for Scarless Tendon Healing. <i>Advanced Materials</i> , 2022, 34, e2200789.	21.0	14
17	Transporting Hydrogel via Chinese Acupuncture Needles for Lesion Positioning Therapy. <i>Advanced Science</i> , 2022, 9, e2200079.	11.2	15
18	Infiltration from Suspension Systems Enables Effective Modulation of 3D Scaffold Properties in Suspension Bioprinting. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 27575-27588.	8.0	4

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19	MMP-2 Responsive Unidirectional Hydrogel-Electrospun Patch Loading TGF- $\beta$ 1 siRNA Polyplexes for Peritendinous Anti-Adhesion. <i>Advanced Functional Materials</i> , 2021, 31, 2008364.	14.9	30
20	Multifunctional integrally-medicalized hydrogel system with internal synergy for efficient tissue regeneration. <i>Chemical Engineering Journal</i> , 2021, 406, 126839.	12.7	27
21	Lotus seedpod-inspired internal vascularized 3D printed scaffold for bone tissue repair. <i>Bioactive Materials</i> , 2021, 6, 1639-1652.	15.6	70
22	CMAP Scan Examination of the First Dorsal Interosseous Muscle After Spinal Cord Injury. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1199-1205.	4.9	13
23	Modulation of Local Overactive Inflammation via Injectable Hydrogel Microspheres. <i>Nano Letters</i> , 2021, 21, 2690-2698.	9.1	101
24	Light-Controlled Nanosystem with Size-Flexibility Improves Targeted Retention for Tumor Suppression. <i>Advanced Functional Materials</i> , 2021, 31, 2101262.	14.9	21
25	TRIM21 drives intervertebral disc degeneration induced by oxidative stress via mediating HIF-1 $\alpha$ degradation. <i>Biochemical and Biophysical Research Communications</i> , 2021, 555, 46-53.	2.1	6
26	Multistage signal-interactive nanoparticles improve tumor targeting through efficient nanoparticle-cell communications. <i>Cell Reports</i> , 2021, 35, 109131.	6.4	6
27	Injectable Microfluidic Hydrogel Microspheres for Cell and Drug Delivery. <i>Advanced Functional Materials</i> , 2021, 31, 2103339.	14.9	117
28	Baicalein alleviates osteoarthritis by protecting subchondral bone, inhibiting angiogenesis and synovial proliferation. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 5283-5294.	3.6	18
29	Gradient bimetallic ion-based hydrogels for tissue microstructure reconstruction of tendon-to-bone insertion. <i>Science Advances</i> , 2021, 7, .	10.3	83
30	Flexible Osteogenic Glue as an All-in-One Solution to Assist Fracture Fixation and Healing. <i>Advanced Functional Materials</i> , 2021, 31, 2102465.	14.9	40
31	Pharmaceutical electrospinning and 3D printing scaffold design for bone regeneration. <i>Advanced Drug Delivery Reviews</i> , 2021, 174, 504-534.	13.7	163
32	Colon-Targeted Adhesive Hydrogel Microsphere for Regulation of Gut Immunity and Flora. <i>Advanced Science</i> , 2021, 8, e2101619.	11.2	91
33	Capturing Magnesium Ions via Microfluidic Hydrogel Microspheres for Promoting Cancellous Bone Regeneration. <i>ACS Nano</i> , 2021, 15, 13041-13054.	14.6	133
34	Microfluidic Hydrogel Microspheres: Injectable Microfluidic Hydrogel Microspheres for Cell and Drug Delivery ( <i>Adv. Funct. Mater.</i> 31/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170227.	14.9	25
35	Charge-Guided Micro/Nano-Hydrogel Microsphere for Penetrating Cartilage Matrix. <i>Advanced Functional Materials</i> , 2021, 31, 2107678.	14.9	63
36	Biomimetic injectable hydrogel microspheres with enhanced lubrication and controllable drug release for the treatment of osteoarthritis. <i>Bioactive Materials</i> , 2021, 6, 3596-3607.	15.6	122

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37	Fullerol-hydrogel microfluidic spheres for in situ redox regulation of stem cell fate and refractory bone healing. <i>Bioactive Materials</i> , 2021, 6, 4801-4815.	15.6	49
38	Capturing dynamic biological signals via bio-mimicking hydrogel for precise remodeling of soft tissue. <i>Bioactive Materials</i> , 2021, 6, 4506-4516.	15.6	36
39	Electrospun Fibers Improving Cellular Respiration via Mitochondrial Protection. <i>Small</i> , 2021, 17, e2104012.	10.0	25
40	Biological homeostasis-inspired light-excited multistage nanocarriers induce dual apoptosis in tumors. <i>Biomaterials</i> , 2021, 279, 121194.	11.4	10
41	Engineered Customizable Microvessels for Progressive Vascularization in Large Regenerative Implants. <i>Advanced Healthcare Materials</i> , 2021, , 2101836.	7.6	6
42	Osteocytic HIF-1 $\alpha$ Pathway Manipulates Bone Micro-structure and Remodeling via Regulating Osteocyte Terminal Differentiation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 721561.	3.7	11
43	Hierarchical micro/nanofibrous membranes of sustained releasing VEGF for periosteal regeneration. <i>Biomaterials</i> , 2020, 227, 119555.	11.4	185
44	Advanced liposome-loaded scaffolds for therapeutic and tissue engineering applications. <i>Biomaterials</i> , 2020, 232, 119706.	11.4	127
45	Metabolism Balance Regulation via Antagonist $\alpha$ -Functionalized Injectable Microsphere for Nucleus Pulposus Regeneration. <i>Advanced Functional Materials</i> , 2020, 30, 2006333.	14.9	40
46	Black phosphorus-based 2D materials for bone therapy. <i>Bioactive Materials</i> , 2020, 5, 1026-1043.	15.6	60
47	Bioinspired Functional Black Phosphorus Electrospun Fibers Achieving Recruitment and Biom mineralization for Staged Bone Regeneration. <i>Small</i> , 2020, 16, e2005433.	10.0	57
48	Ball-bearing-inspired Polyampholyte $\alpha$ -Modified Microspheres as Bio-lubricants Attenuate Osteoarthritis. <i>Small</i> , 2020, 16, e2004519.	10.0	73
49	High Mineralization Capacity of IDG-SW3 Cells in 3D Collagen Hydrogel for Bone Healing in Estrogen-Deficient Mice. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 864.	4.1	6
50	Microenvironment-responsive immunoregulatory electrospun fibers for promoting nerve function recovery. <i>Nature Communications</i> , 2020, 11, 4504.	12.8	127
51	Ice-Inspired Superlubricated Electrospun Nanofibrous Membrane for Preventing Tissue Adhesion. <i>Nano Letters</i> , 2020, 20, 6420-6428.	9.1	29
52	Injectable Porous Microspheres: Metabolism Balance Regulation via Antagonist $\alpha$ -Functionalized Injectable Microsphere for Nucleus Pulposus Regeneration ( <i>Adv. Funct. Mater.</i> 52/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070348.	14.9	2
53	CircHmbox1 Targeting miRNA-1247-5p Is Involved in the Regulation of Bone Metabolism by TNF- $\alpha$ in Postmenopausal Osteoporosis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 594785.	3.7	35
54	Injectable Polypeptide $\alpha$ -Protein Hydrogels for Promoting Infected Wound Healing. <i>Advanced Functional Materials</i> , 2020, 30, 2001196.	14.9	186

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55	Thermo-sensitive Dual-functional Nanospheres with Enhanced Lubrication and Drug Delivery for the Treatment of Osteoarthritis. <i>Chemistry - A European Journal</i> , 2020, 26, 10564-10574.	3.3	29
56	Microvascular Scaffolds: A Biomimetic 3D Self-Forming Approach for Microvascular Scaffolds (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 10</i>	11.2	1
57	Stem cell-laden injectable hydrogel microspheres for cancellous bone regeneration. <i>Chemical Engineering Journal</i> , 2020, 393, 124715.	12.7	71
58	Cartilage matrix-inspired biomimetic superlubricated nanospheres for treatment of osteoarthritis. <i>Biomaterials</i> , 2020, 242, 119931.	11.4	77
59	SEN3 Suppresses Osteoclastogenesis by De-conjugating SUMO2/3 from IRF8 in Bone Marrow-Derived Monocytes. <i>Cell Reports</i> , 2020, 30, 1951-1963.e4.	6.4	16
60	Hydration-Enhanced Lubricating Electrospun Nanofibrous Membranes Prevent Tissue Adhesion. <i>Research</i> , 2020, 2020, 4907185.	5.7	64
61	The effects of tranilcypromine on osteoclastogenesis <i>in vitro</i> and <i>in vivo</i> . <i>FASEB Journal</i> , 2019, 33, 9828-9841.	0.5	12
62	Bioinspired Hyaluronic Acid/Phosphorylcholine Polymer with Enhanced Lubrication and Anti-Inflammation. <i>Biomacromolecules</i> , 2019, 20, 4135-4142.	5.4	58
63	Nanoparticle-Embedded Electrospun Fiber-Covered Stent to Assist Intraluminal Photodynamic Treatment of Oesophageal Cancer. <i>Small</i> , 2019, 15, e1904979.	10.0	33
64	Recent advance of erythrocyte-mimicking nanovehicles: From bench to bedside. <i>Journal of Controlled Release</i> , 2019, 314, 81-91.	9.9	22
65	TRAF6 neddylation drives inflammatory arthritis by increasing NF- $\kappa$ B activation. <i>Laboratory Investigation</i> , 2019, 99, 528-538.	3.7	19
66	An injectable self-healing coordinative hydrogel with antibacterial and angiogenic properties for diabetic skin wound repair. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	260
67	Adhesive nanoparticles with inflammation regulation for promoting skin flap regeneration. <i>Journal of Controlled Release</i> , 2019, 297, 91-101.	9.9	37
68	An electrospun fiber-covered stent with programmable dual drug release for endothelialization acceleration and lumen stenosis prevention. <i>Acta Biomaterialia</i> , 2019, 94, 295-305.	8.3	50
69	Development of Small-Molecules Targeting Receptor Activator of Nuclear Factor- $\kappa$ B Ligand (RANKL)-Receptor Activator of Nuclear Factor- $\kappa$ B (RANK) Protein-Protein Interaction by Structure-Based Virtual Screening and Hit Optimization. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 5370-5381.	6.4	16
70	Tissue Regeneration: Bioinspired Hydrogel Electrospun Fibers for Spinal Cord Regeneration (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	14.9	6
71	Metal-Based Stents: Endovascular Metal Devices for the Treatment of Cerebrovascular Diseases (Adv.) <i>Tj ETQq1 1 0 784314 rgBT /Overlock 10 Tf 50</i>	21.0	2
72	Self-Healing: Self-Healing and Injectable Hydrogel for Matching Skin Flap Regeneration (Adv. Sci. 3/2019). <i>Advanced Science</i> , 2019, 6, 1970019.	11.2	0

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73	Self-Nanoemulsifying Electrospun Fiber Enhancing Drug Permeation. ACS Applied Materials & Interfaces, 2019, 11, 7836-7849.	8.0	21
74	Adhesive liposomes loaded onto an injectable, self-healing and antibacterial hydrogel for promoting bone reconstruction. NPG Asia Materials, 2019, 11, .	7.9	61
75	Estrogen inhibits osteoclasts formation and bone resorption via microRNA-27a targeting PPAR $\gamma$ and APC. Journal of Cellular Physiology, 2019, 234, 581-594.	4.1	45
76	Endovascular Metal Devices for the Treatment of Cerebrovascular Diseases. Advanced Materials, 2019, 31, e1805452.	21.0	38
77	Enhanced Osteogenesis of Bone Marrow-Derived Mesenchymal Stem Cells by a Functionalized Silk Fibroin Hydrogel for Bone Defect Repair. Advanced Healthcare Materials, 2019, 8, e1801043.	7.6	63
78	Small molecule nAS $\beta$ targeting cAMP response element binding protein (CREB) and CREB-binding protein interaction inhibits breast cancer bone metastasis. Journal of Cellular and Molecular Medicine, 2019, 23, 1224-1234.	3.6	13
79	SF-deferoxamine, a bone-seeking angiogenic drug, prevents bone loss in estrogen-deficient mice. Bone, 2019, 120, 156-165.	2.9	21
80	Vascularized 3D printed scaffolds for promoting bone regeneration. Biomaterials, 2019, 190-191, 97-110.	11.4	345
81	A Novel Rhein Derivative Modulates Bone Formation and Resorption and Ameliorates Estrogen-Dependent Bone Loss. Journal of Bone and Mineral Research, 2019, 34, 361-374.	2.8	36
82	Bioinspired Hydrogel Electrospun Fibers for Spinal Cord Regeneration. Advanced Functional Materials, 2019, 29, 1806899.	14.9	118
83	<i>Euryale Ferox</i> Seed-Inspired Superlubricated Nanoparticles for Treatment of Osteoarthritis. Advanced Functional Materials, 2019, 29, 1807559.	14.9	80
84	Enzymatic Formation of an Injectable Hydrogel from a Glycopeptide as a Biomimetic Scaffold for Vascularization. ACS Applied Materials & Interfaces, 2018, 10, 6180-6189.	8.0	54
85	The prevention of latanoprost on osteoclastogenesis in vitro and lipopolysaccharide-induced murine calvaria osteolysis in vivo. Journal of Cellular Biochemistry, 2018, 119, 4680-4691.	2.6	5
86	Cooperative Assembly of a Peptide Gelator and Silk Fibroin Afford an Injectable Hydrogel for Tissue Engineering. ACS Applied Materials & Interfaces, 2018, 10, 12474-12484.	8.0	91
87	Localized Controlled Delivery of Gemcitabine via Microsol Electrospun Fibers to Prevent Pancreatic Cancer Recurrence. Advanced Healthcare Materials, 2018, 7, e1800593.	7.6	35
88	Adjustable hardness of hydrogel for promoting vascularization and maintaining stemness of stem cells in skin flap regeneration. Applied Materials Today, 2018, 13, 54-63.	4.3	42
89	An immunological electrospun scaffold for tumor cell killing and healthy tissue regeneration. Materials Horizons, 2018, 5, 1082-1091.	12.2	31
90	Double-stranded RNA released from damaged articular chondrocytes promotes cartilage degeneration via Toll-like receptor 3-interleukin-33 pathway. Cell Death and Disease, 2017, 8, e3165-e3165.	6.3	24

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91	Osteoblast Hypoxia-Inducible Factor-1 $\alpha$ Pathway Activation Restrains Osteoclastogenesis via the Interleukin-33-MicroRNA-34a-Notch1 Pathway. <i>Frontiers in Immunology</i> , 2017, 8, 1312.	4.8	35
92	Increased 15-lipoxygenase-1 expression in chondrocytes contributes to the pathogenesis of osteoarthritis. <i>Cell Death and Disease</i> , 2017, 8, e3109-e3109.	6.3	14
93	Osteoclast proton pump regulator Atp6v1c1 enhances breast cancer growth by activating the mTORC1 pathway and bone metastasis by increasing V-ATPase activity. <i>Oncotarget</i> , 2017, 8, 47675-47690.	1.8	33
94	Inflammatory microRNA-194 and -515 attenuate the biosynthesis of chondroitin sulfate during human intervertebral disc degeneration. <i>Oncotarget</i> , 2017, 8, 49303-49317.	1.8	28
95	Strontium Ranelate Reduces the Fracture Incidence in a Growing Mouse Model of Osteogenesis Imperfecta. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 1003-1014.	2.8	15
96	Synthesis and biological evaluation of rhein amides as inhibitors of osteoclast differentiation and bone resorption. <i>European Journal of Medicinal Chemistry</i> , 2016, 123, 769-776.	5.5	25
97	Response to Comment on Strontium Ranelate Reduces the Fracture Incidence in a Growing Mouse Model of Osteogenesis Imperfecta. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 2066-2066.	2.8	0
98	Increased EZH2 and decreased osteoblastogenesis during local irradiation-induced bone loss in rats. <i>Scientific Reports</i> , 2016, 6, 31318.	3.3	18
99	Reliability of measurements on lateral ankle radiographs. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 297.	1.9	12
100	Desferrioxamine reduces ultrahigh-molecular-weight polyethylene-induced osteolysis by restraining inflammatory osteoclastogenesis via heme oxygenase-1. <i>Cell Death and Disease</i> , 2016, 7, e2435-e2435.	6.3	27
101	Heme oxygenase-1 attenuates IL-1 $\beta$ induced alteration of anabolic and catabolic activities in intervertebral disc degeneration. <i>Scientific Reports</i> , 2016, 6, 21190.	3.3	33
102	Upregulating Hif-1 $\alpha$ by Hydrogel Nanofibrous Scaffolds for Rapidly Recruiting Angiogenesis Relative Cells in Diabetic Wound. <i>Advanced Healthcare Materials</i> , 2016, 5, 907-918.	7.6	110
103	Being Two Is Better than Being One: A Facile Strategy to Fabricate Multicomponent Nanoparticles for Efficient Gene Delivery. <i>Bioconjugate Chemistry</i> , 2016, 27, 638-646.	3.6	6
104	HIF-1 $\alpha$ disturbs osteoblasts and osteoclasts coupling in bone remodeling by up-regulating OPG expression. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2015, 51, 808-814.	1.5	37
105	Glucocorticoid inhibits cell proliferation in differentiating osteoblasts by microRNA-199a targeting of WNT signaling. <i>Journal of Molecular Endocrinology</i> , 2015, 54, 325-337.	2.5	42
106	Synthesis of Rigid Analogues of Flavone by Intramolecular Heck Reaction. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 3040-3043.	2.4	13
107	Circulating MicroRNA as Potential Source for Neurodegenerative Diseases Biomarkers. <i>Molecular Neurobiology</i> , 2015, 52, 1494-1503.	4.0	9
108	Atp6v1c1 Facilitates Breast Cancer Growth and Bone Metastasis through the mTORC1 Pathway. <i>FASEB Journal</i> , 2015, 29, 2848.	0.5	1

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109	Repair of Microdamage in Osteonal Cortical Bone Adjacent to Bone Screw. PLoS ONE, 2014, 9, e89343.	2.5	26
110	The Prognostic Value of the Hawkins Sign and Diagnostic Value of MRI After Talar Neck Fractures. Foot and Ankle International, 2014, 35, 1255-1261.	2.3	37
111	Core Binding Factor Beta ( <i>Cbfi<sup>2</sup></i> ) Controls the Balance of Chondrocyte Proliferation and Differentiation by Upregulating Indian hedgehog (Ihh) Expression and Inhibiting Parathyroid Hormone-Related Protein Receptor (PPR) Expression in Postnatal Cartilage and Bone Formation. Journal of Bone and Mineral Research, 2014, 29, 1564-1574.	2.8	37
112	MicroRNA-17/20a inhibits glucocorticoid-induced osteoclast differentiation and function through targeting RANKL expression in osteoblast cells. Bone, 2014, 68, 67-75.	2.9	76
113	Osteoblast-Secreted Factors Promote Proliferation and Osteogenic Differentiation of Bone Marrow Stromal Cells via VEGF/Heme-Oxygenase-1 Pathway. PLoS ONE, 2014, 9, e99946.	2.5	28