

Haiyan Li

List of Publications by Year in descending order

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108
papers

5,965
citations

66315

42
h-index

76872

74
g-index

112
all docs

112
docs citations

112
times ranked

7072
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced osteoporotic bone regeneration by strontium-substituted calcium silicate bioactive ceramics. <i>Biomaterials</i> , 2013, 34, 10028-10042.	5.7	311
2	Exosomes/tricalcium phosphate combination scaffolds can enhance bone regeneration by activating the PI3K/Akt signaling pathway. <i>Stem Cell Research and Therapy</i> , 2016, 7, 136.	2.4	302
3	Silicate bioceramics enhanced vascularization and osteogenesis through stimulating interactions between endothelia cells and bone marrow stromal cells. <i>Biomaterials</i> , 2014, 35, 3803-3818.	5.7	216
4	Stimulation of proangiogenesis by calcium silicate bioactive ceramic. <i>Acta Biomaterialia</i> , 2013, 9, 5379-5389.	4.1	203
5	Surface acoustic wave concentration of particle and bioparticle suspensions. <i>Biomedical Microdevices</i> , 2007, 9, 647-656.	1.4	191
6	Embryonic Stem Cells-Derived Exosomes Endowed with Targeting Properties as Chemotherapeutics Delivery Vehicles for Glioblastoma Therapy. <i>Advanced Science</i> , 2019, 6, 1801899.	5.6	182
7	Bioglass Activated Skin Tissue Engineering Constructs for Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 703-715.	4.0	180
8	Bioactive Injectable Hydrogels Containing Desferrioxamine and Bioglass for Diabetic Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30103-30114.	4.0	165
9	Fabrication and characterization of bioactive wollastonite/PHBV composite scaffolds. <i>Biomaterials</i> , 2004, 25, 5473-5480.	5.7	158
10	pH-compensation effect of bioactive inorganic fillers on the degradation of PLGA. <i>Composites Science and Technology</i> , 2005, 65, 2226-2232.	3.8	147
11	in vitro Evaluation of Biodegradable Poly(butylene succinate) as a Novel Biomaterial. <i>Macromolecular Bioscience</i> , 2005, 5, 433-440.	2.1	133
12	The calcium silicate/alginate composite: Preparation and evaluation of its behavior as bioactive injectable hydrogels. <i>Acta Biomaterialia</i> , 2013, 9, 9107-9117.	4.1	129
13	Modulation of macrophages by bioactive glass/sodium alginate hydrogel is crucial in skin regeneration enhancement. <i>Biomaterials</i> , 2020, 256, 120216.	5.7	128
14	Synergy effects of copper and silicon ions on stimulation of vascularization by copper-doped calcium silicate. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1100-1110.	2.9	124
15	Bioglass promotes wound healing by affecting gap junction connexin 43 mediated endothelial cell behavior. <i>Biomaterials</i> , 2016, 84, 64-75.	5.7	114
16	An injectable continuous stratified structurally and functionally biomimetic construct for enhancing osteochondral regeneration. <i>Biomaterials</i> , 2019, 192, 149-158.	5.7	107
17	Bioglass promotes wound healing through modulating the paracrine effects between macrophages and repairing cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5240-5250.	2.9	105
18	Preparation, characterization and in vitro release of gentamicin from PHBV/wollastonite composite microspheres. <i>Journal of Controlled Release</i> , 2005, 107, 463-473.	4.8	93

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19	The degradation and transport mechanism of a Mg-Nd-Zn-Zr stent in rabbit common carotid artery: A 20-month study. <i>Acta Biomaterialia</i> , 2018, 69, 372-384.	4.1	93
20	Electrospun membranes: control of the structure and structure related applications in tissue regeneration and drug delivery. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5492-5510.	2.9	90
21	Preparation and characterization of bioactive and biodegradable Wollastonite/poly(D,L-lactic acid) composite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 1089-1095.	1.7	89
22	Design of a thermosensitive bioglass/agarose- α -alginate composite hydrogel for chronic wound healing. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8856-8864.	2.9	87
23	Preparation of hydrophilic poly(L-lactide) electrospun fibrous scaffolds modified with chitosan for enhanced cell biocompatibility. <i>Polymer</i> , 2012, 53, 2298-2305.	1.8	85
24	In vitro degradation of porous degradable and bioactive PHBV/wollastonite composite scaffolds. <i>Polymer Degradation and Stability</i> , 2005, 87, 301-307.	2.7	76
25	Human urine-derived stem cells can be induced into osteogenic lineage by silicate bioceramics via activation of the Wnt/ β -catenin signaling pathway. <i>Biomaterials</i> , 2015, 55, 1-11.	5.7	76
26	A scaffold cell seeding method driven by surface acoustic waves. <i>Biomaterials</i> , 2007, 28, 4098-4104.	5.7	74
27	Microfluidic Colloidal Island Formation and Erasure Induced by Surface Acoustic Wave Radiation. <i>Physical Review Letters</i> , 2008, 101, 084502.	2.9	74
28	Injectable bioactive akermanite/alginate composite hydrogels for in situ skin tissue engineering. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3315-3326.	2.9	73
29	An Anisotropically and Heterogeneously Aligned Patterned Electrospun Scaffold with Tailored Mechanical Property and Improved Bioactivity for Vascular Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8706-8718.	4.0	70
30	Bioglass/alginate composite hydrogel beads as cell carriers for bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 42-51.	1.6	68
31	Fabrication, Characterization, and in vitro Degradation of Composite Scaffolds Based on PHBV and Bioactive Glass. <i>Journal of Biomaterials Applications</i> , 2005, 20, 137-155.	1.2	67
32	Modulating degradation of sodium alginate/bioglass hydrogel for improving tissue infiltration and promoting wound healing. <i>Bioactive Materials</i> , 2021, 6, 3692-3704.	8.6	67
33	Influence of proteins and cells on in vitro corrosion of Mg- α -Nd- α -Zn- α -Zr alloy. <i>Corrosion Science</i> , 2014, 85, 477-481.	3.0	65
34	High frequency acoustic cell stimulation promotes exosome generation regulated by a calcium-dependent mechanism. <i>Communications Biology</i> , 2020, 3, 553.	2.0	65
35	Effect of surface acoustic waves on the viability, proliferation and differentiation of primary osteoblast-like cells. <i>Biomicrofluidics</i> , 2009, 3, 034102.	1.2	64
36	Preparation, characterization and in vitro angiogenic capacity of cobalt substituted β -tricalcium phosphate ceramics. <i>Journal of Materials Chemistry</i> , 2012, 22, 21686.	6.7	63

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37	Bioglass enhances the production of exosomes and improves their capability of promoting vascularization. <i>Bioactive Materials</i> , 2021, 6, 823-835.	8.6	61
38	Improvement of PHBV Scaffolds with Bioglass for Cartilage Tissue Engineering. <i>PLoS ONE</i> , 2013, 8, e71563.	1.1	59
39	Macroporous poly(3-hydroxybutyrate-co-3-hydroxyvalerate) matrices for cartilage tissue engineering. <i>European Polymer Journal</i> , 2005, 41, 2443-2449.	2.6	52
40	The Role of Vascular Actors in Two Dimensional Dialogue of Human Bone Marrow Stromal Cell and Endothelial Cell for Inducing Self-Assembled Network. <i>PLoS ONE</i> , 2011, 6, e16767.	1.1	49
41	Human Urine Derived Stem Cells in Combination with β -TCP Can Be Applied for Bone Regeneration. <i>PLoS ONE</i> , 2015, 10, e0125253.	1.1	49
42	Role of neural-cadherin in early osteoblastic differentiation of human bone marrow stromal cells cocultured with human umbilical vein endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C422-C430.	2.1	48
43	Effects of Wollastonite on Proliferation and Differentiation of Human Bone Marrow-derived Stromal Cells in PHBV/Wollastonite Composite Scaffolds. <i>Journal of Biomaterials Applications</i> , 2009, 24, 231-246.	1.2	41
44	Combined chemical and structural signals of biomaterials synergistically activate cell-cell communications for improving tissue regeneration. <i>Acta Biomaterialia</i> , 2017, 55, 249-261.	4.1	41
45	Electrospun Poly(L-Lactide) Fiber with Ginsenoside Rg3 for Inhibiting Scar Hyperplasia of Skin. <i>PLoS ONE</i> , 2013, 8, e68771.	1.1	41
46	Pro-chondrogenic and immunomodulatory melatonin-loaded electrospun membranes for tendon-to-bone healing. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6564-6575.	2.9	40
47	Reversing the surface charge of MSC-derived small extracellular vesicles by β -PLA-PEG-DSPE for enhanced osteoarthritis treatment. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12160.	5.5	40
48	Alginate-aker injectable composite hydrogels promoted irregular bone regeneration through stem cell recruitment and osteogenic differentiation. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1951-1964.	2.9	38
49	Multilayer Injectable Hydrogel System Sequentially Delivers Bioactive Substances for Each Wound Healing Stage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29787-29806.	4.0	37
50	Controlled release of MSC-derived small extracellular vesicles by an injectable Diels-Alder crosslinked hyaluronic acid/PEG hydrogel for osteoarthritis improvement. <i>Acta Biomaterialia</i> , 2021, 128, 163-174.	4.1	37
51	High strength and antibacterial polyelectrolyte complex CS/HS hydrogel films for wound healing. <i>Soft Matter</i> , 2019, 15, 7686-7694.	1.2	34
52	Incorporation of Bioglass Improved the Mechanical Stability and Bioactivity of Alginate/Carboxymethyl Chitosan Hydrogel Wound Dressing. <i>ACS Applied Bio Materials</i> , 2021, 4, 1677-1692.	2.3	34
53	Fabrication and characterization of β -dicalcium silicate/poly(d,l-lactic acid) composite scaffolds. <i>Materials Letters</i> , 2005, 59, 2214-2218.	1.3	33
54	In vitro degradation and surface bioactivity of iron-matrix composites containing silicate-based bioceramic. <i>Bioactive Materials</i> , 2017, 2, 10-18.	8.6	33

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55	Controlled drug release from a polymer matrix by patterned electrospun nanofibers with controllable hydrophobicity. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4182.	2.9	32
56	Influence of fluoride treatment on surface properties, biodegradation and cytocompatibility of Mgâ€Znâ€Zr alloy. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 791-799.	1.7	32
57	Smart Fiber Hydrogels with MacroPorous Structure for Sequentially Promoting Multiple Phases of Articular Cartilage Regeneration. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	30
58	Anti-Inflammatory and Prochondrogenic In Situ-Formed Injectable Hydrogel Crosslinked by Strontium-Doped Bioglass for Cartilage Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59772-59786.	4.0	30
59	The dynamics of surface acoustic waveâ€driven scaffold cell seeding. <i>Biotechnology and Bioengineering</i> , 2009, 103, 387-401.	1.7	29
60	Multifunctional superparamagnetic nanoshells: combining two-photon luminescence imaging, surface-enhanced Raman scattering and magnetic separation. <i>Nanoscale</i> , 2014, 6, 14360-14370.	2.8	29
61	Effect of macrophages on <i>in vitro</i> corrosion behavior of magnesium alloy. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2476-2487.	2.1	29
62	Bifunctional Cx43 Mimic Peptide Grafted Hyaluronic Acid Hydrogels Inhibited Tumor Recurrence and Stimulated Wound Healing for Postsurgical Tumor Treatment. <i>Advanced Functional Materials</i> , 2020, 30, 2004709.	7.8	28
63	A magnetic bead-mediated selective adsorption strategy for extracellular vesicle separation and purification. <i>Acta Biomaterialia</i> , 2021, 124, 336-347.	4.1	26
64	An effective strategy for preparing macroporous and self-healing bioactive hydrogels for cell delivery and wound healing. <i>Chemical Engineering Journal</i> , 2021, 425, 130677.	6.6	26
65	Applications of extracellular vesicles in tissue regeneration. <i>Biomicrofluidics</i> , 2020, 14, 011501.	1.2	24
66	In vitro biocompatibility assessment of PHBV/Wollastonite composites. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 67-73.	1.7	23
67	Control of the Dissolution of Ca and Si Ions from CaSiO ₃ Bioceramic via Tailoring Its Surface Structure and Chemical Composition. <i>Journal of the American Ceramic Society</i> , 2013, 96, 691-696.	1.9	23
68	Bioglass enhanced wound healing ability of urineâ€derived stem cells through promoting paracrine effects between stem cells and recipient cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1609-e1622.	1.3	23
69	PHBV/bioglass composite scaffolds with co-cultures of endothelial cells and bone marrow stromal cells improve vascularization and osteogenesis for bone tissue engineering. <i>RSC Advances</i> , 2017, 7, 22197-22207.	1.7	22
70	Local intramyocardial delivery of bioglass with alginate hydrogels for post-infarct myocardial regeneration. <i>Biomedicine and Pharmacotherapy</i> , 2020, 129, 110382.	2.5	21
71	Tough hydrogels with tunable soft and wet interfacial adhesion. <i>Polymer Testing</i> , 2021, 93, 106976.	2.3	21
72	45S5 Bioglass® works synergistically with siRNA to downregulate the expression of matrix metalloproteinase-9 in diabetic wounds. <i>Acta Biomaterialia</i> , 2022, 145, 372-389.	4.1	21

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73	uPA and MMP-2 were involved in self-assembled network formation in a two dimensional coculture model of bone marrow stromal cells and endothelial cells. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 650-657.	1.2	20
74	Multiple Hydrogen Bonds-Reinforced Hydrogels with High Strength, Shape Memory, and Adsorption Anti-Inflammatory Molecules. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000202.	2.0	20
75	Construction and properties of poly(lactic-co-glycolic acid)/calcium phosphate cement composite pellets with microspheres-in-pellet structure for bone repair. <i>Ceramics International</i> , 2016, 42, 5587-5592.	2.3	19
76	Macrophage phagocytosis of biomedical Mg alloy degradation products prepared by electrochemical method. <i>Materials Science and Engineering C</i> , 2017, 75, 1178-1183.	3.8	19
77	The stimulation of osteogenic differentiation of embryoid bodies from human induced pluripotent stem cells by akermanite bioceramics. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2369-2376.	2.9	18
78	Enhancement of rotator cuff tendon-bone healing using combined aligned electrospun fibrous membranes and kartogenin. <i>RSC Advances</i> , 2019, 9, 15582-15592.	1.7	18
79	Bioceramic akermanite enhanced vascularization and osteogenic differentiation of human induced pluripotent stem cells in 3D scaffolds in vitro and vivo. <i>RSC Advances</i> , 2019, 9, 25462-25470.	1.7	17
80	Bioactive injectable polymethylmethacrylate/silicate bioceramic hybrid cements for percutaneous vertebroplasty and kyphoplasty. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 96, 125-135.	1.5	17
81	Injectable Quercetin-Loaded Hydrogel with Cartilage-Protection and Immunomodulatory Properties for Articular Cartilage Repair. <i>ACS Applied Bio Materials</i> , 2020, 3, 761-771.	2.3	17
82	Electrospun nanofibrous sheets of collagen/elastin/polycaprolactone improve cardiac repair after myocardial infarction. <i>American Journal of Translational Research (discontinued)</i> , 2016, 8, 1678-94.	0.0	15
83	Super Bulk and Interfacial Toughness of Amylopectin Reinforced PAAm/PVA Double-Network Hydrogels via Multiple Hydrogen Bonds. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900450.	1.7	14
84	Biomaterials affect cell-cell interactions in vitro in tissue engineering. <i>Journal of Materials Science and Technology</i> , 2021, 63, 62-72.	5.6	14
85	Calcium silicate enhances immunosuppressive function of MSCs to indirectly modulate the polarization of macrophages. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab056.	1.9	14
86	Regulating the production and biological function of small extracellular vesicles: current strategies, applications and prospects. <i>Journal of Nanobiotechnology</i> , 2021, 19, 422.	4.2	13
87	Preparation and in vitro cell-biological performance of sodium alginate/nano-zinc silicate co-modified calcium silicate bioceramics. <i>RSC Advances</i> , 2015, 5, 8329-8339.	1.7	11
88	Combined biomaterial signals stimulate communications between bone marrow stromal cell and endothelial cell. <i>RSC Advances</i> , 2017, 7, 5306-5314.	1.7	11
89	Bioglass could increase cell membrane fluidity with ion products to develop its bioactivity. <i>Cell Proliferation</i> , 2020, 53, e12906.	2.4	11
90	Sodium alginate-bioglass-encapsulated hAECs restore ovarian function in premature ovarian failure by stimulating angiogenic factor secretion. <i>Stem Cell Research and Therapy</i> , 2021, 12, 223.	2.4	11

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91	Preparation of macroporous polymer scaffolds using calcined cancellous bone as a template. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 575-584.	1.9	10
92	Programmed Transformations of Strong Polyvinyl Alcohol/Sodium Alginate Hydrogels via Ionic Crosslink Lithography. <i>Macromolecular Rapid Communications</i> , 2020, 41, 2000127.	2.0	10
93	Macrophages activated by akermanite/alginate composite hydrogel stimulate migration of bone marrow-derived mesenchymal stem cells. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 045004.	1.7	10
94	Eliminating the original cargos of glioblastoma cell-derived small extracellular vesicles for efficient drug delivery to glioblastoma with improved biosafety. <i>Bioactive Materials</i> , 2022, 16, 204-217.	8.6	10
95	Tetrandrine inhibits the occurrence and development of frozen shoulder by inhibiting inflammation, angiogenesis, and fibrosis. <i>Biomedicine and Pharmacotherapy</i> , 2021, 140, 111700.	2.5	9
96	Stem Cell-Based Tissue Engineering for the Treatment of Burn Wounds: A Systematic Review of Preclinical Studies. <i>Stem Cell Reviews and Reports</i> , 2022, 18, 1926-1955.	1.7	9
97	Synergetic stimulation of nanostructure and chemistry cues on behaviors of fibroblasts and endothelial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 500-509.	2.5	8
98	Injectable bioactive polymethyl methacrylate-hydrogel hybrid bone cement loaded with BMP-2 to improve osteogenesis for percutaneous vertebroplasty and kyphoplasty. <i>Bio-Design and Manufacturing</i> , 2022, 5, 318-332.	3.9	8
99	TiO ₂ Nanotubes Enhance Vascularization and Osteogenic Differentiation Through Stimulating Interactions Between Bone Marrow Stromal Cells and Endothelial Cells. <i>Journal of Biomedical Nanotechnology</i> , 2018, 14, 765-777.	0.5	7
100	Bioglass for skin regeneration. , 2019, , 225-250.		7
101	Interfacial adhesion and water resistance of stainless steel-polyolefin improved by functionalized silane. <i>Polymer Engineering and Science</i> , 2019, 59, 1866-1873.	1.5	6
102	Bioactive calcium silicate extracts regulate the morphology and stemness of human embryonic stem cells at the initial stage. <i>RSC Advances</i> , 2016, 6, 104666-104674.	1.7	5
103	Small extracellular vesicles secreted by urine-derived stem cells enhanced wound healing in aged mice by ameliorating cellular senescence. <i>Journal of Materials Science and Technology</i> , 2021, 63, 216-227.	5.6	5
104	Superparamagnetic plasmonic nanoshells for improved imaging, separation and seeding of co-cultured cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7787-7795.	2.9	4
105	Application of hydrophobic coatings in biodegradable devices. <i>Bio-Medical Materials and Engineering</i> , 2015, 25, 77-88.	0.4	3
106	Juxtamembrane 2 mimic peptide competitively inhibits mitochondrial trafficking and activates ROS-mediated apoptosis pathway to exert anti-tumor effects. <i>Cell Death and Disease</i> , 2022, 13, 264.	2.7	2
107	Nanoparticle patterning in a microfluidic drop induced by surface acoustic waves. , 2009, , .		1
108	Design of Silicate-Based Bioactive Materials for Bone Tissue Repair and Reconstruction. <i>Frontiers in Nanobiomedical Research</i> , 2017, , 257-284.	0.1	0