

Xiaoming Li

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

4,519
citations

94269

37
h-index

106150

65
g-index

105
all docs

105
docs citations

105
times ranked

6064
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ability and Mechanism of nHAC/CGF in Promoting Osteogenesis and Repairing Mandibular Defects. <i>Nanomaterials</i> , 2022, 12, 212.	1.9	8
2	Modification of polyether ether ketone for the repairing of bone defects. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 042001.	1.7	10
3	Three-dimensional silk fibroin scaffolds incorporated with graphene for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 515-523.	2.1	19
4	The effect of carbon nanotubes on osteogenic functions of adipose-derived mesenchymal stem cells in vitro and bone formation in vivo compared with that of nano-hydroxyapatite and the possible mechanism. <i>Bioactive Materials</i> , 2021, 6, 333-345.	8.6	56
5	The Challenges and Development Directions of Decellularized Materials. , 2021, , 489-515.		0
6	A biomimetic hierarchical small intestinal submucosa chitosan sponge/chitosan hydrogel scaffold with a micro/nano structure for dural repair. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7821-7834.	2.9	21
7	Applications of Decellularized Materials for Tissue Repair. , 2021, , 181-251.		0
8	Applications of 3D bioprinting in tissue engineering: advantages, deficiencies, improvements, and future perspectives. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5385-5413.	2.9	51
9	Overview of Decellularized Materials for Tissue Repair and Organ Replacement. , 2021, , 1-67.		1
10	Evaluation methods for mechanical biocompatibility of hernia repair meshes: respective characteristics, application scope and future perspectives. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1826-1840.	2.6	6
11	The relationship between crosslinking structure and silk fibroin scaffold performance for soft tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1268-1277.	3.6	12
12	A biomimetic triple-layered biocomposite with effective multifunction for dura repair. <i>Acta Biomaterialia</i> , 2021, 130, 248-267.	4.1	14
13	Stereotactic technology for 3D bioprinting: from the perspective of robot mechanism. <i>Biofabrication</i> , 2021, 13, 043001.	3.7	8
14	The Decellularization of Whole Organs. , 2021, , 253-311.		1
15	Exploring the match between the degradation of the ECM-based composites and tissue remodeling in a full-thickness abdominal wall defect model. <i>Biomaterials Science</i> , 2021, 9, 7895-7910.	2.6	9
16	Kinematic Analysis of Stereotactic Bioprinting Prototype Based on Double-Parallelogram Mechanism. , 2021, , .		0
17	A numerical method for guiding the design of surgical meshes with suitable mechanical properties for specific abdominal hernias. <i>Computers in Biology and Medicine</i> , 2020, 116, 103531.	3.9	9
18	Terminal Group Modification of Carbon Nanotubes Determines Covalently Bound Osteogenic Peptide Performance. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 865-878.	2.6	15

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19	Biomimetic SIS-based biocomposites with improved biodegradability, antibacterial activity and angiogenesis for abdominal wall repair. <i>Materials Science and Engineering C</i> , 2020, 109, 110538.	3.8	30
20	Nanocomposites for the delivery of bioactive molecules in tissue repair: vital structural features, application mechanisms, updated progress and future perspectives. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10271-10289.	2.9	9
21	<p>Applications of Graphene and Its Derivatives in Bone Repair: Advantages for Promoting Bone Formation and Providing Real-Time Detection, Challenges and Future Prospects</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 7523-7551.	3.3	52
22	Applications of decellularized materials in tissue engineering: advantages, drawbacks and current improvements, and future perspectives. <i>Journal of Materials Chemistry B</i> , 2020, 8, 10023-10049.	2.9	63
23	Applications of materials for dural reconstruction in pre-clinical and clinical studies: Advantages and drawbacks, efficacy, and selections. <i>Materials Science and Engineering C</i> , 2020, 117, 111326.	3.8	22
24	Cytotoxic effects of dental prosthesis grinding dust on RAW264.7 cells. <i>Scientific Reports</i> , 2020, 10, 14364.	1.6	6
25	Improved osteogenic differentiation of human amniotic mesenchymal stem cells on gradient nanostructured Ti surface. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1824-1833.	2.1	17
26	InÂVivo Disintegration and Bioresorption of a Nacre-Inspired Graphene-Silk Film Caused by the Foreign-Body Reaction. <i>IScience</i> , 2020, 23, 101155.	1.9	8
27	The effects of silk layer-by-layer surface modification on the mechanical and structural retention of extracellular matrix scaffolds. <i>Biomaterials Science</i> , 2020, 8, 4026-4038.	2.6	19
28	Magnetic nanoparticles applied in targeted therapy and magnetic resonance imaging: crucial preparation parameters, indispensable pre-treatments, updated research advancements and future perspectives. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5973-5991.	2.9	26
29	Scaffolds in Bone Tissue Engineering: Research Progress and Current Applications. , 2020, , 204-215.		8
30	Influence of the mechanical properties of biomaterials on degradability, cell behaviors and signaling pathways: current progress and challenges. <i>Biomaterials Science</i> , 2020, 8, 2714-2733.	2.6	111
31	Reforming teaching methods by integrating dental theory with clinical practice for dental students. <i>PeerJ</i> , 2020, 8, e8477.	0.9	11
32	Development of novel oxygen carriers by coupling hemoglobin to functionalized multiwall carbon nanotubes. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4821-4832.	2.9	6
33	Small intestinal submucosa: superiority, limitations and solutions, and its potential to address bottlenecks in tissue repair. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5038-5055.	2.9	64
34	Applications of Carbon Nanotubes in Bone Tissue Regeneration and Engineering: Superiority, Concerns, Current Advancements, and Prospects. <i>Nanomaterials</i> , 2019, 9, 1501.	1.9	119
35	Biomechanical studies on biomaterial degradation and co-cultured cells: mechanisms, potential applications, challenges and prospects. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7439-7459.	2.9	33
36	Incorporation of multi-walled carbon nanotubes to PMMA bone cement improves cytocompatibility and osseointegration. <i>Materials Science and Engineering C</i> , 2019, 103, 109823.	3.8	36

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37	Conductive nanostructured Si biomaterials enhance osteogenesis through electrical stimulation. <i>Materials Science and Engineering C</i> , 2019, 103, 109748.	3.8	29
38	Elastic constants identification of irregular hard biological tissue materials using FEM-based resonant ultrasound spectroscopy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 96, 20-26.	1.5	5
39	A Stable Large Animal Model for Dural Defect Repair with Biomaterials and Regenerative Medicine. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 315-323.	1.1	2
40	Peptide-modified bone repair materials: Factors influencing osteogenic activity. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1491-1512.	2.1	23
41	Topographical patterning: characteristics of current processing techniques, controllable effects on material properties and co-cultured cell fate, updated applications in tissue engineering, and improvement strategies. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7090-7109.	2.9	29
42	Biomaterials research of China from 2013 to 2017 based on bibliometrics and visualization analysis. <i>PeerJ</i> , 2019, 7, e6859.	0.9	13
43	Surface modification of nanofibrous matrices via layer-by-layer functionalized silk assembly for mitigating the foreign body reaction. <i>Biomaterials</i> , 2018, 164, 22-37.	5.7	78
44	Effect of microporosity on scaffolds for bone tissue engineering. <i>International Journal of Energy Production and Management</i> , 2018, 5, 115-124.	1.9	243
45	The effect of mechanical loads on the degradation of aliphatic biodegradable polyesters. <i>International Journal of Energy Production and Management</i> , 2017, 4, 179-190.	1.9	39
46	The use of bioactive peptides to modify materials for bone tissue repair. <i>International Journal of Energy Production and Management</i> , 2017, 4, 191-206.	1.9	56
47	Fiber-reinforced scaffolds in soft tissue engineering. <i>International Journal of Energy Production and Management</i> , 2017, 4, 257-268.	1.9	79
48	Effects of different fluid shear stress patterns on the in vitro degradation of poly(lactide-co-glycolide) acid membranes. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 23-30.	2.1	15
49	A Clean Hydroprocessing of Jatropha Oil into Biofuels over a High Performance Ni-HPW/CNT Catalyst. <i>Nano</i> , 2017, 12, 1750142.	0.5	2
50	The Effect of Fluid Shear Stress on the In Vitro Release Kinetics of Sirolimus from PLGA Films. <i>Polymers</i> , 2017, 9, 618.	2.0	10
51	The Potential Matrix and Reinforcement Materials for the Preparation of the Scaffolds Reinforced by Fibers or Tubes for Tissue Repair. , 2017, , 25-77.		0
52	Overview of Scaffold Reinforcement for Tissue Repair. , 2017, , 1-23.		1
53	Scaffolds Reinforced by Fibers or Tubes for Hard Tissue Repair. , 2017, , 225-260.		0
54	The applications of conductive nanomaterials in the biomedical field. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 322-339.	2.1	39

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55	Current investigations into magnetic nanoparticles for biomedical applications. Journal of Biomedical Materials Research - Part A, 2016, 104, 1285-1296.	2.1	248
56	A novel method to <i>in vitro</i> evaluate biocompatibility of nanoscaled scaffolds. Journal of Biomedical Materials Research - Part A, 2016, 104, 2117-2125.	2.1	9
57	The effect of fluid shear stress on the <i>in vitro</i> degradation of poly(lactide-co-glycolide) acid membranes. Journal of Biomedical Materials Research - Part A, 2016, 104, 2315-2324.	2.1	24
58	The application of nanomaterials in controlled drug delivery for bone regeneration. Journal of Biomedical Materials Research - Part A, 2015, 103, 3978-3992.	2.1	37
59	Effects of physicochemical properties of nanomaterials on their toxicity. Journal of Biomedical Materials Research - Part A, 2015, 103, 2499-2507.	2.1	91
60	A Multidisciplinary Teaching Reform of Biomaterials Course for Undergraduate Students. Journal of Science Education and Technology, 2015, 24, 735-746.	2.4	2
61	Scaffolds Reinforced by Fibers or Tubes for Tissue Repair. BioMed Research International, 2014, 2014, 1-2.	0.9	5
62	3D-Printed Biopolymers for Tissue Engineering Application. International Journal of Polymer Science, 2014, 2014, 1-13.	1.2	103
63	Polymeric Scaffolds for Tissue Engineering. International Journal of Polymer Science, 2014, 2014, 1-2.	1.2	3
64	Application of Ultrasound on Monitoring the Evolution of the Collagen Fiber Reinforced nHAC/CS Composites <i>In Vivo</i> . BioMed Research International, 2014, 2014, 1-9.	0.9	3
65	Resin Composites Reinforced by Nanoscaled Fibers or Tubes for Dental Regeneration. BioMed Research International, 2014, 2014, 1-13.	0.9	27
66	Biocompatibility and Toxicity of Nanobiomaterials 2013. Journal of Nanomaterials, 2014, 2014, 1-2.	1.5	1
67	Effects of hydroxyapatite/collagen composite on osteogenic differentiation of rat bone marrow derived mesenchymal stem cells. Journal of Composite Materials, 2014, 48, 1971-1980.	1.2	16
68	Physiological pulsatile flow culture conditions to generate functional endothelium on a sulfated silk fibroin nanofibrous scaffold. Biomaterials, 2014, 35, 4782-4791.	5.7	52
69	Bio-composites reinforced by fibers or tubes as scaffolds for tissue engineering or regenerative medicine. Journal of Biomedical Materials Research - Part A, 2014, 102, 1580-1594.	2.1	103
70	Effect of substrate stiffness on the functions of rat bone marrow and adipose tissue derived mesenchymal stem cells <i>in vitro</i> . Journal of Biomedical Materials Research - Part A, 2014, 102, 1092-1101.	2.1	91
71	Effects of physicochemical properties of nanomaterials on their toxicity. Journal of Biomedical Materials Research - Part A, 2014, 103, n/a-n/a.	2.1	44
72	Nanostructured scaffolds for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2424-2435.	2.1	269

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73	Emulsion Self-Assembly Synthesis of Chitosan/Poly(lactic acid-glycolic acid) Stimuli-Responsive Amphiphiles. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 700-706.	1.1	11
74	The Use of Nanoscaled Fibers or Tubes to Improve Biocompatibility and Bioactivity of Biomedical Materials. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-16.	1.5	30
75	The Use of Injectable Chitosan/Nanohydroxyapatite/Collagen Composites with Bone Marrow Mesenchymal Stem Cells to Promote Ectopic Bone Formation In Vivo. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8.	1.5	9
76	Osteogenesis Capability and Degradation Property Evaluation of Injectable Biomaterials: Comparison of Computed Tomography and Ultrasound. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-8.	1.5	0
77	In Vitro Biocompatibility and Osteoblast Differentiation of an Injectable Chitosan/Nano-Hydroxyapatite/Collagen Scaffold. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6.	1.5	34
78	Biocompatibility and Toxicity of Nanobiomaterials. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-2.	1.5	46
79	Noninvasive Evaluation of Injectable Chitosan/Nano-Hydroxyapatite/Collagen Scaffold via Ultrasound. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-7.	1.5	8
80	Biocompatibility and Toxicity of Nanoparticles and Nanotubes. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-19.	1.5	120
81	The use of carbon nanotubes to induce osteogenic differentiation of human adipose-derived MSCs in vitro and ectopic bone formation in vivo. <i>Biomaterials</i> , 2012, 33, 4818-4827.	5.7	250
82	New developments of biomaterials course for biomedical engineering education. , 2011, , .		0
83	Influence of mineralized collagen fibrils on the thermo-sensitivity of an injectable scaffold for bone regeneration. <i>International Journal of Materials Research</i> , 2011, 102, 1384-1390.	0.1	2
84	Repair of Bone Defect in Femoral Condyle Using Microencapsulated Chitosan, Nanohydroxyapatite/Collagen and Poly(Lactide)-Based Microsphere Scaffold Delivery System. <i>Artificial Organs</i> , 2011, 35, E119-28.	1.0	48
85	Biomedical investigation of CNT based coatings. <i>Surface and Coatings Technology</i> , 2011, 206, 759-766.	2.2	94
86	Osteogenic differentiation of human adipose-derived stem cells induced by osteoinductive calcium phosphate ceramics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 97B, 10-19.	1.6	88
87	Repairing goat tibia segmental bone defect using scaffold cultured with mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 94B, 44-52.	1.6	47
88	Current investigations into carbon nanotubes for biomedical application. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 022001.	1.7	108
89	Recent Patents on Polymeric Scaffolds for Tissue Engineering. <i>Recent Patents on Biomedical Engineering</i> , 2009, 2, 65-72.	0.5	3
90	Effect of carbon nanotubes on cellular functions in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 132-139.	2.1	133

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91	In vitro evaluation of porous poly(L-lactic acid) scaffold reinforced by chitin fibers. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 90B, 503-509.	1.6	53
92	Proliferation of osteoblast cells on nanotubes. Frontiers of Materials Science in China, 2009, 3, 169-173.	0.5	5
93	Maturation of osteoblast-like SaoS2 induced by carbon nanotubes. Biomedical Materials (Bristol), 2009, 4, 015005.	1.7	80
94	The effect of calcium phosphate microstructure on bone-related cells in vitro. Biomaterials, 2008, 29, 3306-3316.	5.7	237
95	Investigation on the mechanism of the osteoinduction for calcium phosphate. Bone, 2008, 43, S111-S112.	1.4	22
96	Repairing 25Åmm bone defect using fibres reinforced scaffolds as well as autograft bone. Bone, 2008, 43, S94.	1.4	18
97	In vitro degradation of porous nano-hydroxyapatite/collagen/PLLA scaffold reinforced by chitin fibres. Materials Science and Engineering C, 2006, 26, 716-720.	3.8	90
98	Collagen-based implants reinforced by chitin fibres in a goat shank bone defect model. Biomaterials, 2006, 27, 1917-1923.	5.7	146
99	Chemical characteristics and cytocompatibility of collagen-based scaffold reinforced by chitin fibers for bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 77B, 219-226.	1.6	55
100	Porous poly-L-lactic acid scaffold reinforced by chitin fibers. Polymer Bulletin, 2005, 54, 47-55.	1.7	48
101	Collagen-based scaffolds reinforced by chitosan fibres for bone tissue engineering. Polymer International, 2005, 54, 1034-1040.	1.6	60
102	Collagen-based tissue repair composite. , 0, , 183-202.		0