

Min Wang

List of Publications by Year in descending order

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61
papers

3,083
citations

257450

24
h-index

168389

53
g-index

65
all docs

65
docs citations

65
times ranked

3845
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing bioactive composite materials for tissue replacement. <i>Biomaterials</i> , 2003, 24, 2133-2151.	11.4	654
2	3D printing of bone tissue engineering scaffolds. <i>Bioactive Materials</i> , 2020, 5, 82-91.	15.6	370
3	Three-dimensional nanocomposite scaffolds fabricated via selective laser sintering for bone tissue engineering. <i>Acta Biomaterialia</i> , 2010, 6, 4495-4505.	8.3	366
4	Fabrication of HA/PHBV composite scaffolds through the emulsion freezing/freeze-drying process and characterisation of the scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2555-2561.	3.6	150
5	Customized Ca-P/PHBV nanocomposite scaffolds for bone tissue engineering: design, fabrication, surface modification and sustained release of growth factor. <i>Journal of the Royal Society Interface</i> , 2010, 7, S615-29.	3.4	131
6	Optimized fabrication of Ca-P/PHBV nanocomposite scaffolds via selective laser sintering for bone tissue engineering. <i>Biofabrication</i> , 2011, 3, 015001.	7.1	108
7	Cryogenic 3D printing for producing hierarchical porous and rhBMP-2-loaded Ca-P/PLLA nanocomposite scaffolds for bone tissue engineering. <i>Biofabrication</i> , 2017, 9, 025031.	7.1	83
8	4D printing of highly printable and shape morphing hydrogels composed of alginate and methylcellulose. <i>Materials and Design</i> , 2021, 205, 109699.	7.0	77
9	Encapsulation and release of biomolecules from Ca-P/PHBV nanocomposite microspheres and three-dimensional scaffolds fabricated by selective laser sintering. <i>Polymer Degradation and Stability</i> , 2010, 95, 1655-1664.	5.8	69
10	Selective laser sintering and its application in biomedical engineering. <i>MRS Bulletin</i> , 2011, 36, 998-1005.	3.5	69
11	Cryogenic 3D printing of porous scaffolds for <i>in situ</i> delivery of 2D black phosphorus nanosheets, doxorubicin hydrochloride and osteogenic peptide for treating tumor resection-induced bone defects. <i>Biofabrication</i> , 2020, 12, 035004.	7.1	68
12	Fabrication and Application of Novel Porous Scaffold <i>In Situ</i> -Loaded Graphene Oxide and Osteogenic Peptide by Cryogenic 3D Printing for Repairing Critical-Sized Bone Defect. <i>Molecules</i> , 2019, 24, 1669.	3.8	55
13	Cryogenic 3D printing of heterogeneous scaffolds with gradient mechanical strengths and spatial delivery of osteogenic peptide/TGF- β 1 for osteochondral tissue regeneration. <i>Biofabrication</i> , 2020, 12, 025030.	7.1	54
14	Regulation Effects of Biomimetic Hybrid Scaffolds on Vascular Endothelium Remodeling. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23583-23594.	8.0	49
15	Advanced reconfigurable scaffolds fabricated by 4D printing for treating critical-size bone defects of irregular shapes. <i>Biofabrication</i> , 2020, 12, 045025.	7.1	49
16	An investigation into the influence of electrospinning parameters on the diameter and alignment of poly(hydroxybutyrate-co-hydroxyvalerate) fibers. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1694-1706.	2.6	48
17	3D printing in biomedical engineering: Processes, materials, and applications. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	46
18	Electrospun multicomponent and multifunctional nanofibrous bone tissue engineering scaffolds. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1388-1399.	5.8	45

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19	Dual-source dual-power electrospinning and characteristics of multifunctional scaffolds for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2381-2397.	3.6	43
20	A comparative study on titania layers formed on Ti, Ti-6Al-4V and NiTi shape memory alloy through a low temperature oxidation process. <i>Surface and Coatings Technology</i> , 2010, 205, 92-101.	4.8	32
21	A new nanofiber fabrication technique based on coaxial electrospinning. <i>Materials Letters</i> , 2012, 66, 257-260.	2.6	32
22	Electrospun multifunctional tissue engineering scaffolds. <i>Frontiers of Materials Science</i> , 2014, 8, 3-19.	2.2	32
23	Modulating the release of vascular endothelial growth factor by negative-voltage emulsion electrospinning for improved vascular regeneration. <i>Materials Letters</i> , 2017, 193, 1-4.	2.6	28
24	A novel technique for the fabrication of 3D nanofibrous scaffolds using simultaneous positive voltage electrospinning and negative voltage electrospinning. <i>Materials Letters</i> , 2013, 94, 116-120.	2.6	26
25	In situ delivery of rhBMP-2 in surface porous shape memory scaffolds developed through cryogenic 3D plotting. <i>Materials Letters</i> , 2017, 189, 140-143.	2.6	25
26	Manufacture of Biomaterials. , 2019, , 116-134.		25
27	(Ti, O)/Ti and (Ti, O, N)/Ti composite coatings fabricated via PIIID for the medical application of NiTi shape memory alloy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 96B, 249-260.	3.4	22
28	Novel core-shell structured Paclitaxel-loaded PLGA@Ag-Au nanoparticles. <i>Materials Letters</i> , 2013, 92, 350-353.	2.6	22
29	Three-dimensional endothelial cell incorporation within bioactive nanofibrous scaffolds through concurrent emulsion electrospinning and coaxial cell electrospinning. <i>Acta Biomaterialia</i> , 2021, 123, 312-324.	8.3	22
30	Controlled pVEGF delivery via a gene-activated matrix comprised of a peptide-modified non-viral vector and a nanofibrous scaffold for skin wound healing. <i>Acta Biomaterialia</i> , 2022, 140, 149-162.	8.3	22
31	Surface modification of three-dimensional Ca-P/PHBV nanocomposite scaffolds by physical entrapment of gelatin and its in vitro biological evaluation. <i>Frontiers of Materials Science</i> , 2011, 5, 57-68.	2.2	21
32	Electrospinning and Evaluation of PHBV-Based Tissue Engineering Scaffolds with Different Fibre Diameters, Surface Topography and Compositions. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 779-806.	3.5	18
33	Strategies to incorporate polyelectrolyte in emulsion electrospun nanofibrous tissue engineering scaffolds for modulating growth factor release from the scaffolds. <i>Materials Letters</i> , 2016, 162, 48-52.	2.6	18
34	Multifunctional fibrous scaffolds for bone regeneration with enhanced vascularization. <i>Journal of Materials Chemistry B</i> , 2020, 8, 636-647.	5.8	16
35	Double-crosslinked bifunctional hydrogels with encapsulated anti-cancer drug for bone tumor cell ablation and bone tissue regeneration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 213, 112364.	5.0	14
36	Surface characteristics, properties and in vitro biological assessment of a NiTi shape memory alloy after high temperature heat treatment or surface H ₂ O ₂ -oxidation: A comparative study. <i>Materials Chemistry and Physics</i> , 2011, 130, 45-58.	4.0	13

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37	Electrospun Poly(Hydroxybutyrate-co-Hydroxyvalerate) Fibrous Membranes Consisting of Parallel-Aligned Fibers or Cross-Aligned Fibers: Characterization and Biological Evaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 2475-2497.	3.5	13
38	Electrospinning of poly(hydroxybutyrate-co-hydroxyvalerate) fibrous tissue engineering scaffolds in two different electric fields. <i>Polymer Engineering and Science</i> , 2011, 51, 1325-1338.	3.1	13
39	Nonisothermal melt-crystallization behavior of calcium phosphate/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) nanocomposite microspheres. <i>Polymer Engineering and Science</i> , 2011, 51, 1580-1591.	3.1	13
40	Dual release of VEGF and PDGF from emulsion electrospun bilayer scaffolds consisting of orthogonally aligned nanofibers for gastrointestinal tract regeneration. <i>MRS Communications</i> , 2019, 9, 1098-1104.	1.8	12
41	3D Printed porous tissue engineering scaffolds with the self-folding ability and controlled release of growth factor. <i>MRS Communications</i> , 2020, 10, 579-586.	1.8	12
42	Bicomponent fibrous scaffolds made through dual-source dual-power electrospinning: Dual delivery of rhBMP-2 and CaP nanoparticles and enhanced biological performances. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2199-2209.	4.0	11
43	Phase Inversion-Based Technique for Fabricating Bijels and Bijels-Derived Structures with Tunable Microstructures. <i>Langmuir</i> , 2020, 36, 14644-14655.	3.5	11
44	Materials and Their Biomedical Applications. , 2019, , 135-152.		9
45	Characteristics and in vitro biological assessment of (Ti, O, N)/Ti composite coating formed on NiTi shape memory alloy. <i>Thin Solid Films</i> , 2011, 519, 4623-4628.	1.8	8
46	Manipulating the release of growth factors from biodegradable microspheres for potentially different therapeutic effects by using two different electro spray techniques for microsphere fabrication. <i>Polymer Degradation and Stability</i> , 2019, 162, 169-179.	5.8	8
47	4D Printing of Self-Folding Hydrogel Tubes for Potential Tissue Engineering Applications. <i>Nano LIFE</i> , 2021, 11, .	0.9	8
48	Hybrid ceramics-based cancer theranostics. <i>Journal of the Korean Ceramic Society</i> , 2022, 59, 401-426.	2.3	8
49	Selective Laser Sintering and Its Biomedical Applications. <i>Biological and Medical Physics Series</i> , 2013, , 83-109.	0.4	7
50	Bicomponent nanofibrous scaffolds with dual release of anticancer drugs and biomacromolecules. <i>MRS Communications</i> , 2019, 9, 413-420.	1.8	7
51	Cell-Incorporated Bioactive Tissue Engineering Scaffolds made by Concurrent Cell Electrospinning and Emulsion Electrospinning. <i>Nano LIFE</i> , 2021, 11, .	0.9	5
52	Nanocomposite Scaffolds for Bone Tissue Engineering: Design, Fabrication, Surface Modification and Sustained Release of Growth Factor. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1301, 99.	0.1	4
53	Bulk Properties of Biomaterials and Testing Techniques. , 2019, , 53-64.		4
54	Core-Shell Structured Theranostics. <i>Nano LIFE</i> , 0, , 2141004.	0.9	2

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55	Customized Nanocomposite Scaffolds Fabricated via Selective Laser Sintering for Bone Tissue Engineering. , 2012, , 925-953.		2
56	Electrochemical Deposition of Apatite/Collagen Composite Coating on NiTi Shape Memory Alloy and Coating Properties. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	1
57	Fabrication of (Ti-O-N-Si)/Ti Composite Coating on NiTi Shape Memory Alloy Using PIIID and Coating Evaluation. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	1
58	Electrospinning and Electrospaying with Cells for Applications in Biomanufacturing. Nano LIFE, 0, , 2141003.	0.9	1
59	Guest Editorial: Composites in medicine (Special Issue for the Symposium on Composites in Medicine at Tj ETQq1 1 0.784314 rgBT /Ov	3.6	0
60	Novel Electrospun Bicomponent Scaffolds for Bone Tissue Engineering: Fabrication, Characterization and Sustained Release of Growth Factor. Materials Research Society Symposia Proceedings, 2012, 1418, 151.	0.1	0
61	Editorial: Biomaterials at PacRim9. Journal of Materials Science: Materials in Medicine, 2012, 23, 2315-2316.	3.6	0