

Yanzhong Zhang

List of Publications by Year in descending order

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93
papers

18,304
citations

38660

50
h-index

38300

95
g-index

100
all docs

100
docs citations

100
times ranked

18972
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on polymer nanofibers by electrospinning and their applications in nanocomposites. <i>Composites Science and Technology</i> , 2003, 63, 2223-2253.	3.8	6,630
2	Electrospinning of gelatin fibers and gelatin/PCL composite fibrous scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72B, 156-165.	3.0	924
3	Evaluation of electrospun PCL/gelatin nanofibrous scaffold for wound healing and layered dermal reconstitution. <i>Acta Biomaterialia</i> , 2007, 3, 321-330.	4.1	784
4	Electrospun biomimetic nanocomposite nanofibers of hydroxyapatite/chitosan for bone tissue engineering. <i>Biomaterials</i> , 2008, 29, 4314-4322.	5.7	637
5	Electrospinning and mechanical characterization of gelatin nanofibers. <i>Polymer</i> , 2004, 45, 5361-5368.	1.8	629
6	Crosslinking of the electrospun gelatin nanofibers. <i>Polymer</i> , 2006, 47, 2911-2917.	1.8	571
7	Recent development of polymer nanofibers for biomedical and biotechnological applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 933-946.	1.7	561
8	Tissue scaffolds for skin wound healing and dermal reconstruction. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010, 2, 510-525.	3.3	512
9	Coaxial Electrospinning of (Fluorescein Isothiocyanate-Conjugated Bovine Serum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Tj 2006, 7, 1049-1057.	2.6	459
10	Characterization of the Surface Biocompatibility of the Electrospun PCL-Collagen Nanofibers Using Fibroblasts. <i>Biomacromolecules</i> , 2005, 6, 2583-2589.	2.6	455
11	Preparation of Core-Shell Structured PCL-r-Gelatin Bi-Component Nanofibers by Coaxial Electrospinning. <i>Chemistry of Materials</i> , 2004, 16, 3406-3409.	3.2	359
12	Encapsulating drugs in biodegradable ultrafine fibers through co-axial electrospinning. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 77A, 169-179.	2.1	314
13	The promotion of bone regeneration by nanofibrous hydroxyapatite/chitosan scaffolds by effects on integrin-BMP/Smad signaling pathway in BMSCs. <i>Biomaterials</i> , 2013, 34, 4404-4417.	5.7	290
14	Flower-like PEGylated MoS ₂ nanoflakes for near-infrared photothermal cancer therapy. <i>Scientific Reports</i> , 2015, 5, 17422.	1.6	219
15	Electrospun Biomimetic Fibrous Scaffold from Shape Memory Polymer of PDLLA-co-TMC for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2611-2621.	4.0	212
16	In Vitro Culture of Human Dermal Fibroblasts on Electrospun Polycaprolactone Collagen Nanofibrous Membrane. <i>Artificial Organs</i> , 2006, 30, 440-446.	1.0	197
17	Three-dimensional porous scaffold by self-assembly of reduced graphene oxide and nano-hydroxyapatite composites for bone tissue engineering. <i>Carbon</i> , 2017, 116, 325-337.	5.4	191
18	Fabrication of Large Pores in Electrospun Nanofibrous Scaffolds for Cellular Infiltration: A Review. <i>Tissue Engineering - Part B: Reviews</i> , 2012, 18, 77-87.	2.5	190

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19	Fabrication of porous electrospun nanofibres. <i>Nanotechnology</i> , 2006, 17, 901-908.	1.3	177
20	Well-aligned chitosan-based ultrafine fibers committed teno-lineage differentiation of human induced pluripotent stem cells for Achilles tendon regeneration. <i>Biomaterials</i> , 2015, 53, 716-730.	5.7	154
21	Engineering ear-shaped cartilage using electrospun fibrous membranes of gelatin/polycaprolactone. <i>Biomaterials</i> , 2013, 34, 2624-2631.	5.7	144
22	Improved cellular response on multiwalled carbon nanotube-incorporated electrospun polyvinyl alcohol/chitosan nanofibrous scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 528-535.	2.5	138
23	Biomimetic hydroxyapatite-containing composite nanofibrous substrates for bone tissue engineering. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2065-2081.	1.6	136
24	Fabrication of modified and functionalized polycaprolactone nanofibre scaffolds for vascular tissue engineering. <i>Nanotechnology</i> , 2005, 16, 2138-2142.	1.3	135
25	Au/Polypyrrole@Fe ₃ O ₄ Nanocomposites for MR/CT Dual-Modal Imaging Guided-Photothermal Therapy: An <i>in Vitro</i> Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4354-4367.	4.0	128
26	Osteogenic differentiation and bone regeneration of iPSC-MSCs supported by a biomimetic nanofibrous scaffold. <i>Acta Biomaterialia</i> , 2016, 29, 365-379.	4.1	126
27	Chitosan Nanofibers from an Easily Electrospinnable UHMWPEO-Doped Chitosan Solution System. <i>Biomacromolecules</i> , 2008, 9, 136-141.	2.6	122
28	Polyelectrolyte multilayer functionalized mesoporous silica nanoparticles for pH-responsive drug delivery: layer thickness-dependent release profiles and biocompatibility. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5886.	2.9	122
29	Enhanced Biomineralization in Osteoblasts on a Novel Electrospun Biocomposite Nanofibrous Substrate of Hydroxyapatite/Collagen/Chitosan. <i>Tissue Engineering - Part A</i> , 2010, 16, 1949-1960.	1.6	112
30	Acetic-Acid-Mediated Miscibility toward Electrospinning Homogeneous Composite Nanofibers of GT/PCL. <i>Biomacromolecules</i> , 2012, 13, 3917-3925.	2.6	107
31	One-Pot Synthesis of MoS ₂ Nanoflakes with Desirable Degradability for Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17347-17358.	4.0	104
32	Encapsulation of self-assembled FePt magnetic nanoparticles in PCL nanofibers by coaxial electrospinning. <i>Chemical Physics Letters</i> , 2005, 415, 317-322.	1.2	102
33	Multifunctional Redox-Responsive Mesoporous Silica Nanoparticles for Efficient Targeting Drug Delivery and Magnetic Resonance Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33829-33841.	4.0	102
34	Engineering aligned electrospun PLLA microfibers with nano-porous surface nanotopography for modulating the responses of vascular smooth muscle cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4439-4450.	2.9	99
35	Nanotechnology for Nanomedicine and Delivery of Drugs. <i>Current Pharmaceutical Design</i> , 2008, 14, 2184-2200.	0.9	92
36	Drug Delivery to the Brain – Realization by Novel Drug Carriers. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 471-483.	0.9	91

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37	Electrospun biomimetic scaffold of hydroxyapatite/chitosan supports enhanced osteogenic differentiation of mMSCs. <i>Nanotechnology</i> , 2012, 23, 485102.	1.3	86
38	Marriage of Albumin-Gadolinium Complexes and MoS ₂ Nanoflakes as Cancer Theranostics for Dual-Modality Magnetic Resonance/Photoacoustic Imaging and Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17786-17798.	4.0	81
39	Genipin-crosslinked electrospun chitosan nanofibers: Determination of crosslinking conditions and evaluation of cytocompatibility. <i>Carbohydrate Polymers</i> , 2015, 130, 166-174.	5.1	80
40	An epigenetic bioactive composite scaffold with well-aligned nanofibers for functional tendon tissue engineering. <i>Acta Biomaterialia</i> , 2018, 66, 141-156.	4.1	78
41	Stem cell-loaded nanofibrous patch promotes the regeneration of infarcted myocardium with functional improvement in rat model. <i>Acta Biomaterialia</i> , 2014, 10, 2727-2738.	4.1	77
42	Nanofibrous patterns by direct electrospinning of nanofibers onto topographically structured non-conductive substrates. <i>Nanoscale</i> , 2013, 5, 4993.	2.8	74
43	Stiffness of Aligned Fibers Regulates the Phenotypic Expression of Vascular Smooth Muscle Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6867-6880.	4.0	72
44	Ultrasound-Modulated Shape Memory and Payload Release Effects in a Biodegradable Cylindrical Rod Made of Chitosan-Functionalized PLGA Microspheres. <i>Biomacromolecules</i> , 2013, 14, 1971-1979.	2.6	62
45	Highly aligned core-shell structured nanofibers for promoting phenotypic expression of vSMCs for vascular regeneration. <i>Nanoscale</i> , 2016, 8, 16307-16322.	2.8	62
46	Double-layered composite nanofibers and their mechanical performance. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 2852-2861.	2.4	56
47	Facile synthesis of novel albumin-functionalized flower-like MoS ₂ nanoparticles for in vitro chemo-photothermal synergistic therapy. <i>RSC Advances</i> , 2016, 6, 13040-13049.	1.7	56
48	Effect of inhomogeneity of the electrospun fibrous scaffolds of gelatin/polycaprolactone hybrid on cell proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 431-438.	2.1	53
49	Electrospun acid-neutralizing fibers for the amelioration of inflammatory response. <i>Acta Biomaterialia</i> , 2019, 97, 200-215.	4.1	53
50	Zirconia toughened alumina ceramic foams for potential bone graft applications: fabrication, bioactivation, and cellular responses. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2743-2749.	1.7	52
51	Regulating drug release from pH- and temperature-responsive electrospun CTS-g-PNIPAAm/poly(ethylene oxide) hydrogel nanofibers. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 055001.	1.7	52
52	HAp incorporated ultrafine polymeric fibers with shape memory effect for potential use in bone screw hole healing. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5308-5320.	2.9	52
53	Fabrication of high performance silk fibroin fibers via stable jet electrospinning for potential use in anisotropic tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3934-3945.	2.9	52
54	Stable jet electrospinning for easy fabrication of aligned ultrafine fibers. <i>Journal of Materials Chemistry</i> , 2012, 22, 19634.	6.7	51

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55	Implication of stable jet length in electrospinning for collecting well-aligned ultrafine PLLA fibers. <i>Polymer</i> , 2013, 54, 6867-6876.	1.8	51
56	Transparent PMMA-based nanocomposite using electrospun graphene-incorporated PA-6 nanofibers as the reinforcement. <i>Composites Science and Technology</i> , 2013, 89, 134-141.	3.8	50
57	Effect of Molecular Orientation on Mechanical Property of Single Electrospun Fiber of Poly[(<i>R</i>)-3-hydroxybutyrate-co-(<i>R</i>)-3-hydroxyvalerate]. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13179-13185.	1.2	46
58	A newly identified mechanism involved in regulation of human mesenchymal stem cells by fibrous substrate stiffness. <i>Acta Biomaterialia</i> , 2016, 42, 247-257.	4.1	46
59	Rapid mineralization of porous gelatin scaffolds by electrodeposition for bone tissue engineering. <i>Journal of Materials Chemistry</i> , 2012, 22, 2111-2119.	6.7	44
60	Direct printing of patterned three-dimensional ultrafine fibrous scaffolds by stable jet electrospinning for cellular ingrowth. <i>Biofabrication</i> , 2015, 7, 045004.	3.7	43
61	Fabrication of magnetic composite nanofibers of poly(μ -caprolactone) with FePt nanoparticles by coaxial electrospinning. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 303, e286-e289.	1.0	37
62	Optical and mechanical anisotropies of aligned electrospun nanofibers reinforced transparent PMMA nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 380-389.	3.8	37
63	Stiffness of the aligned fibers affects structural and functional integrity of the oriented endothelial cells. <i>Acta Biomaterialia</i> , 2020, 108, 237-249.	4.1	37
64	Alkali-Mediated Miscibility of Gelatin/Polycaprolactone for Electrospinning Homogeneous Composite Nanofibers for Tissue Scaffolding. <i>Macromolecular Bioscience</i> , 2017, 17, 1700268.	2.1	33
65	Polymeric Nanoparticles Induce NLRP3 Inflammasome Activation and Promote Breast Cancer Metastasis. <i>Macromolecular Bioscience</i> , 2017, 17, 1700273.	2.1	32
66	Collagen and chondroitin sulfate functionalized bioinspired fibers for tendon tissue engineering application. <i>International Journal of Biological Macromolecules</i> , 2021, 170, 248-260.	3.6	31
67	Engineering a Highly Biomimetic Chitosan-Based Cartilage Scaffold by Using Short Fibers and a Cartilage-Decellularized Matrix. <i>Biomacromolecules</i> , 2021, 22, 2284-2297.	2.6	30
68	Fabrication of the composite nanofibers of NiO/ β -Al ₂ O ₃ for potential application in photocatalysis. <i>Ceramics International</i> , 2016, 42, 17405-17409.	2.3	29
69	One-Pot Synthesis of Silver Nanoparticle Incorporated Mesoporous Silica Granules for Hemorrhage Control and Antibacterial Treatment. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3588-3599.	2.6	29
70	Tendon ECM modified bioactive electrospun fibers promote MSC tenogenic differentiation and tendon regeneration. <i>Applied Materials Today</i> , 2020, 18, 100495.	2.3	26
71	<p>Rapid mineralization of hierarchical poly(l-lactic acid)/poly(μ -caprolactone) nanofibrous scaffolds by electrodeposition for bone regeneration<p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 3929-3941.	3.3	21
72	Modeling of the progressive failure behavior of multilayer knitted fabric-reinforced composite laminates. <i>Composites Science and Technology</i> , 2001, 61, 2033-2046.	3.8	19

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73	Asiaticoside loading into polylactic acid-glycolic acid electrospun nanofibers attenuates host inflammatory response and promotes M2 macrophage polarization. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 69-80.	2.1	19
74	Shape Memory and Osteogenesis Capabilities of the Electrospun Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate) Modified Poly(L-Lactide) Fibrous Mats. <i>Tissue Engineering - Part A</i> , 2021, 27, 142-152.	1.6	19
75	Preclinical Evaluation of Tegaderm [®] , [®] Supported Nanofibrous Wound Matrix Dressing on Porcine Wound Healing Model. <i>Advances in Wound Care</i> , 2015, 4, 110-118.	2.6	17
76	Understanding the cellular responses based on low-density electrospun fiber networks. <i>Materials Science and Engineering C</i> , 2021, 119, 111470.	3.8	17
77	Lysine-doped polydopamine coating enhances antithrombogenicity and endothelialization of an electrospun aligned fibrous vascular graft. <i>Applied Materials Today</i> , 2021, 25, 101198.	2.3	16
78	Synthesis and characterization of nanofibrous hollow microspheres with tunable size and morphology via thermally induced phase separation technique. <i>RSC Advances</i> , 2015, 5, 61580-61585.	1.7	11
79	Growth factors have a protective effect on neomycin [®] -induced hair cell loss. <i>Cell Biology International</i> , 2015, 39, 65-73.	1.4	11
80	Development of a novel elastic and macroporous chitosan hydrogel for wound healing application. <i>Journal of Controlled Release</i> , 2015, 213, e43-e44.	4.8	9
81	Tensile Behaviour of Multilayer Knitted Fabric Composites with Different Stacking Configuration. <i>Applied Composite Materials</i> , 2001, 8, 279-295.	1.3	7
82	Comparing the cultivated cochlear cells derived from neonatal and adult mouse. <i>Journal of Translational Medicine</i> , 2014, 12, 150.	1.8	7
83	Electrospun nanofibers of hydroxyapatite/collagen/chitosan promote osteogenic differentiation of the induced pluripotent stem cell-derived mesenchymal stem cells. <i>Journal of Controlled Release</i> , 2015, 213, e53.	4.8	6
84	The development of biocomposite nanofibers for tissue scaffolding applications. <i>Jom</i> , 2008, 60, 45-48.	0.9	5
85	Effects of GO and rGO incorporated nanofibrous scaffolds on the proliferation of Schwann cells. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 025002.	0.6	5
86	Comparison of sphere-forming capabilities of the cochlear stem cells derived from apical, middle and basal turns of murine organ of Corti. <i>Neuroscience Letters</i> , 2014, 579, 1-6.	1.0	4
87	POSS [®] -based fluorinated azobenzene [®] -containing polymers: Photo [®] -responsive behavior and evaluation of water repellency. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	4
88	Engineering a Mechanoactive Fibrous Substrate with Enhanced Efficiency in Regulating Stem Cell Tenodifferentiation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23219-23231.	4.0	4
89	Prediction of Tensile Strength of Multilayer Knitted-Fabric-Reinforced Laminated Composites. <i>Journal of Thermoplastic Composite Materials</i> , 2001, 14, 70-83.	2.6	3
90	Aligned Ultrafine Chitosan Fibers from Stable Jet Electrospinning. <i>Acta Polymerica Sinica</i> , 2014, 014, 131-140.	0.0	3

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91	Fracture Characteristics of Knitted Fabric Composites under Tensile Load. <i>Advanced Composites Letters</i> , 2000, 9, 096369350000900.	1.3	2
92	Electrospinning Nanocomposite Nanofibers of Hydroxyapatite/Chitosan. <i>Advanced Materials Research</i> , 2008, 47-50, 1363-1366.	0.3	0
93	Small molecule purmorphamine enhanced the osteoinductive capacity of electrospun HAp/SF fibers. <i>Journal of Controlled Release</i> , 2017, 259, e12.	4.8	0