

# Yanzhong Zhang

## List of Publications by Citations

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92  
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46  
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98  
ext. papers

17,014  
ext. citations

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L-index

#	Paper	IF	Citations
92	A review on polymer nanofibers by electrospinning and their applications in nanocomposites. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 2223-2253	8.6	5915
91	Electrospinning of gelatin fibers and gelatin/PCL composite fibrous scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , <b>2005</b> , 72, 156-65		805
90	Evaluation of electrospun PCL/gelatin nanofibrous scaffold for wound healing and layered dermal reconstitution. <i>Acta Biomaterialia</i> , <b>2007</b> , 3, 321-30	10.8	678
89	Electrospun biomimetic nanocomposite nanofibers of hydroxyapatite/chitosan for bone tissue engineering. <i>Biomaterials</i> , <b>2008</b> , 29, 4314-22	15.6	572
88	Electrospinning and mechanical characterization of gelatin nanofibers. <i>Polymer</i> , <b>2004</b> , 45, 5361-5368	3.9	558
87	Recent development of polymer nanofibers for biomedical and biotechnological applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 933-46	4.5	501
86	Crosslinking of the electrospun gelatin nanofibers. <i>Polymer</i> , <b>2006</b> , 47, 2911-2917	3.9	496
85	Coaxial electrospinning of (fluorescein isothiocyanate-conjugated bovine serum albumin)-encapsulated poly(epsilon-caprolactone) nanofibers for sustained release. <i>Biomacromolecules</i> , <b>2006</b> , 7, 1049-57	6.9	429
84	Characterization of the surface biocompatibility of the electrospun PCL-collagen nanofibers using fibroblasts. <i>Biomacromolecules</i> , <b>2005</b> , 6, 2583-9	6.9	412
83	Tissue scaffolds for skin wound healing and dermal reconstruction. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2010</b> , 2, 510-25	9.2	397
82	Preparation of CoreShell Structured PCL-r-Gelatin Bi-Component Nanofibers by Coaxial Electrospinning. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 3406-3409	9.6	331
81	Encapsulating drugs in biodegradable ultrafine fibers through co-axial electrospinning. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 77, 169-79	5.4	286
80	The promotion of bone regeneration by nanofibrous hydroxyapatite/chitosan scaffolds by effects on integrin-BMP/Smad signaling pathway in BMSCs. <i>Biomaterials</i> , <b>2013</b> , 34, 4404-17	15.6	249
79	Electrospun biomimetic fibrous scaffold from shape memory polymer of PDLLA-co-TMC for bone tissue engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2611-21	9.5	188
78	In vitro culture of human dermal fibroblasts on electrospun polycaprolactone collagen nanofibrous membrane. <i>Artificial Organs</i> , <b>2006</b> , 30, 440-6	2.6	173
77	Fabrication of porous electrospun nanofibres. <i>Nanotechnology</i> , <b>2006</b> , 17, 901-908	3.4	161
76	Fabrication of large pores in electrospun nanofibrous scaffolds for cellular infiltration: a review. <i>Tissue Engineering - Part B: Reviews</i> , <b>2012</b> , 18, 77-87	7.9	159

75	Three-dimensional porous scaffold by self-assembly of reduced graphene oxide and nano-hydroxyapatite composites for bone tissue engineering. <i>Carbon</i> , <b>2017</b> , 116, 325-337	10.4	154
74	Flower-like PEGylated MoS <sub>2</sub> nanoflakes for near-infrared photothermal cancer therapy. <i>Scientific Reports</i> , <b>2015</b> , 5, 17422	4.9	148
73	Biomimetic hydroxyapatite-containing composite nanofibrous substrates for bone tissue engineering. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2010</b> , 368, 2065-81	3	122
72	Engineering ear-shaped cartilage using electrospun fibrous membranes of gelatin/polycaprolactone. <i>Biomaterials</i> , <b>2013</b> , 34, 2624-31	15.6	121
71	Fabrication of modified and functionalized polycaprolactone nanofibre scaffolds for vascular tissue engineering. <i>Nanotechnology</i> , <b>2005</b> , 16, 2138-42	3.4	119
70	Well-aligned chitosan-based ultrafine fibers committed teno-lineage differentiation of human induced pluripotent stem cells for Achilles tendon regeneration. <i>Biomaterials</i> , <b>2015</b> , 53, 716-30	15.6	118
69	Improved cellular response on multiwalled carbon nanotube-incorporated electrospun polyvinyl alcohol/chitosan nanofibrous scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2011</b> , 84, 528-35	6	118
68	Au/polypyrrole@Fe <sub>3</sub> O <sub>4</sub> nanocomposites for MR/CT dual-modal imaging guided-photothermal therapy: an in vitro study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 4354-67	9.5	114
67	Chitosan nanofibers from an easily electrospinnable UHMWPEO-doped chitosan solution system. <i>Biomacromolecules</i> , <b>2008</b> , 9, 136-41	6.9	113
66	Osteogenic differentiation and bone regeneration of iPSC-MSCs supported by a biomimetic nanofibrous scaffold. <i>Acta Biomaterialia</i> , <b>2016</b> , 29, 365-379	10.8	107
65	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> , <b>2013</b> , 1, 5886-5898	7.3	100
64	Enhanced biomineralization in osteoblasts on a novel electrospun biocomposite nanofibrous substrate of hydroxyapatite/collagen/chitosan. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 1949-60	3.9	100
63	Encapsulation of self-assembled FePt magnetic nanoparticles in PCL nanofibers by coaxial electrospinning. <i>Chemical Physics Letters</i> , <b>2005</b> , 415, 317-322	2.5	97
62	Multifunctional Redox-Responsive Mesoporous Silica Nanoparticles for Efficient Targeting Drug Delivery and Magnetic Resonance Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33829-33841	9.5	89
61	Acetic-acid-mediated miscibility toward electrospinning homogeneous composite nanofibers of GT/PCL. <i>Biomacromolecules</i> , <b>2012</b> , 13, 3917-25	6.9	88
60	One-Pot Synthesis of MoS Nanoflakes with Desirable Degradability for Photothermal Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17347-17358	9.5	87
59	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> , <b>2015</b> , 3, 4439-4450	7.3	83
58	Nanotechnology for nanomedicine and delivery of drugs. <i>Current Pharmaceutical Design</i> , <b>2008</b> , 14, 2184-200	3.9	78

57	Drug delivery to the brain--realization by novel drug carriers. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2004</b> , 4, 471-83	1.3	74
56	Marriage of Albumin-Gadolinium Complexes and MoS Nanoflakes as Cancer Theranostics for Dual-Modality Magnetic Resonance/Photoacoustic Imaging and Photothermal Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17786-17798	9.5	72
55	Electrospun biomimetic scaffold of hydroxyapatite/chitosan supports enhanced osteogenic differentiation of mMSCs. <i>Nanotechnology</i> , <b>2012</b> , 23, 485102	3.4	72
54	Stem cell-loaded nanofibrous patch promotes the regeneration of infarcted myocardium with functional improvement in rat model. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 2727-38	10.8	71
53	Genipin-crosslinked electrospun chitosan nanofibers: Determination of crosslinking conditions and evaluation of cytocompatibility. <i>Carbohydrate Polymers</i> , <b>2015</b> , 130, 166-74	10.3	65
52	Nanofibrous patterns by direct electrospinning of nanofibers onto topographically structured non-conductive substrates. <i>Nanoscale</i> , <b>2013</b> , 5, 4993-5000	7.7	55
51	Ultrasound-modulated shape memory and payload release effects in a biodegradable cylindrical rod made of chitosan-functionalized PLGA microspheres. <i>Biomacromolecules</i> , <b>2013</b> , 14, 1971-9	6.9	52
50	Double-layered composite nanofibers and their mechanical performance. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 2852-2861	2.6	52
49	An epigenetic bioactive composite scaffold with well-aligned nanofibers for functional tendon tissue engineering. <i>Acta Biomaterialia</i> , <b>2018</b> , 66, 141-156	10.8	51
48	Highly aligned core-shell structured nanofibers for promoting phenotypic expression of vSMCs for vascular regeneration. <i>Nanoscale</i> , <b>2016</b> , 8, 16307-16322	7.7	49
47	Implication of stable jet length in electrospinning for collecting well-aligned ultrafine PLLA fibers. <i>Polymer</i> , <b>2013</b> , 54, 6867-6876	3.9	47
46	Facile synthesis of novel albumin-functionalized flower-like MoS <sub>2</sub> nanoparticles for in vitro chemo-photothermal synergistic therapy. <i>RSC Advances</i> , <b>2016</b> , 6, 13040-13049	3.7	46
45	Regulating drug release from pH- and temperature-responsive electrospun CTS-g-PNIPAAm/poly(ethylene oxide) hydrogel nanofibers. <i>Biomedical Materials (Bristol)</i> , <b>2014</b> , 9, 055001	3.5	46
44	Transparent PMMA-based nanocomposite using electrospun graphene-incorporated PA-6 nanofibers as the reinforcement. <i>Composites Science and Technology</i> , <b>2013</b> , 89, 134-141	8.6	45
43	Stiffness of Aligned Fibers Regulates the Phenotypic Expression of Vascular Smooth Muscle Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 6867-6880	9.5	44
42	Zirconia toughened alumina ceramic foams for potential bone graft applications: fabrication, bioactivation, and cellular responses. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 2743-9	4.5	44
41	Effect of inhomogeneity of the electrospun fibrous scaffolds of gelatin/polycaprolactone hybrid on cell proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 431-8	5.4	43
40	HAp incorporated ultrafine polymeric fibers with shape memory effect for potential use in bone screw hole healing. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 5308-5320	7.3	42

39	Stable jet electrospinning for easy fabrication of aligned ultrafine fibers. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 19634		41
38	Effect of molecular orientation on mechanical property of single electrospun fiber of poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyvalerate]. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 13179-85		41
37	A newly identified mechanism involved in regulation of human mesenchymal stem cells by fibrous substrate stiffness. <i>Acta Biomaterialia</i> , <b>2016</b> , 42, 247-257	10.8	39
36	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> , <b>2018</b> , 6, 3934-3945	7.3	38
35	Rapid mineralization of porous gelatin scaffolds by electrodeposition for bone tissue engineering. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 2111-2119		37
34	Direct printing of patterned three-dimensional ultrafine fibrous scaffolds by stable jet electrospinning for cellular ingrowth. <i>Biofabrication</i> , <b>2015</b> , 7, 045004	10.5	35
33	Fabrication of magnetic composite nanofibers of poly(ε-caprolactone) with FePt nanoparticles by coaxial electrospinning. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 303, e286-e289	2.8	35
32	Electrospun acid-neutralizing fibers for the amelioration of inflammatory response. <i>Acta Biomaterialia</i> , <b>2019</b> , 97, 200-215	10.8	33
31	Alkali-Mediated Miscibility of Gelatin/Polycaprolactone for Electrospinning Homogeneous Composite Nanofibers for Tissue Scaffolding. <i>Macromolecular Bioscience</i> , <b>2017</b> , 17, 1700268	5.5	25
30	Optical and mechanical anisotropies of aligned electrospun nanofibers reinforced transparent PMMA nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 90, 380-389	8.4	23
29	Fabrication of the composite nanofibers of NiO/Al <sub>2</sub> O <sub>3</sub> for potential application in photocatalysis. <i>Ceramics International</i> , <b>2016</b> , 42, 17405-17409	5.1	23
28	Polymeric Nanoparticles Induce NLRP3 Inflammasome Activation and Promote Breast Cancer Metastasis. <i>Macromolecular Bioscience</i> , <b>2017</b> , 17, 1700273	5.5	22
27	One-Pot Synthesis of Silver Nanoparticle Incorporated Mesoporous Silica Granules for Hemorrhage Control and Antibacterial Treatment. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 3588-3599	5.5	21
26	Modeling of the progressive failure behavior of multilayer knitted fabric-reinforced composite laminates. <i>Composites Science and Technology</i> , <b>2001</b> , 61, 2033-2046	8.6	17
25	Preclinical Evaluation of Tegaderm <sup>®</sup> Supported Nanofibrous Wound Matrix Dressing on Porcine Wound Healing Model. <i>Advances in Wound Care</i> , <b>2015</b> , 4, 110-118	4.8	16
24	Stiffness of the aligned fibers affects structural and functional integrity of the oriented endothelial cells. <i>Acta Biomaterialia</i> , <b>2020</b> , 108, 237-249	10.8	15
23	Tendon ECM modified bioactive electrospun fibers promote MSC tenogenic differentiation and tendon regeneration. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100495	6.6	14
22	Collagen and chondroitin sulfate functionalized bioinspired fibers for tendon tissue engineering application. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 170, 248-260	7.9	12

21	Engineering a Highly Biomimetic Chitosan-Based Cartilage Scaffold by Using Short Fibers and a Cartilage-Decellularized Matrix. <i>Biomacromolecules</i> , <b>2021</b> , 22, 2284-2297	6.9	11
20	Rapid mineralization of hierarchical poly(L-lactic acid)/poly(ε-caprolactone) nanofibrous scaffolds by electrodeposition for bone regeneration. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 3929-3941	7.3	10
19	Synthesis and characterization of nanofibrous hollow microspheres with tunable size and morphology via thermally induced phase separation technique. <i>RSC Advances</i> , <b>2015</b> , 5, 61580-61585	3.7	9
18	Growth factors have a protective effect on neomycin-induced hair cell loss. <i>Cell Biology International</i> , <b>2015</b> , 39, 65-73	4.5	9
17	Asiaticoside loading into polylactic-co-glycolic acid electrospun nanofibers attenuates host inflammatory response and promotes M2 macrophage polarization. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2020</b> , 108, 69-80	5.4	9
16	Shape Memory and Osteogenesis Capabilities of the Electrospun Poly(3-Hydroxybutyrate-3-Hydroxyvalerate) Modified Poly(L-Lactide) Fibrous Mats. <i>Tissue Engineering - Part A</i> , <b>2021</b> , 27, 142-152	3.9	9
15	Development of a novel elastic and macroporous chitosan hydrogel for wound healing application. <i>Journal of Controlled Release</i> , <b>2015</b> , 213, e43-4	11.7	7
14	Understanding the cellular responses based on low-density electrospun fiber networks. <i>Materials Science and Engineering C</i> , <b>2021</b> , 119, 111470	8.3	7
13	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> , <b>2015</b> , 213, e53	11.7	5
12	Comparing the cultivated cochlear cells derived from neonatal and adult mouse. <i>Journal of Translational Medicine</i> , <b>2014</b> , 12, 150	8.5	5
11	The development of biocomposite nanofibers for tissue scaffolding applications. <i>Jom</i> , <b>2008</b> , 60, 45-48	2.1	5
10	Tensile Behaviour of Multilayer Knitted Fabric Composites with Different Stacking Configuration. <i>Applied Composite Materials</i> , <b>2001</b> , 8, 279-295	2	5
9	Effects of GO and rGO incorporated nanofibrous scaffolds on the proliferation of Schwann cells. <i>Biomedical Physics and Engineering Express</i> , <b>2019</b> , 5, 025002	1.5	4
8	POSS-based fluorinated azobenzene-containing polymers: Photo-responsive behavior and evaluation of water repellency. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	3
7	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> , <b>2014</b> , 579, 1-6	3.3	3
6	Prediction of Tensile Strength of Multilayer Knitted-Fabric-Reinforced Laminated Composites. <i>Journal of Thermoplastic Composite Materials</i> , <b>2001</b> , 14, 70-83	1.9	3
5	Aligned Ultrafine Chitosan Fibers from Stable Jet Electrospinning. <i>Acta Polymerica Sinica</i> , <b>2014</b> , 014, 131-140		3
4	Fracture Characteristics of Knitted Fabric Composites under Tensile Load. <i>Advanced Composites Letters</i> , <b>2000</b> , 9, 096369350000900	1.2	2

3	Lysine-doped polydopamine coating enhances antithrombogenicity and endothelialization of an electrospun aligned fibrous vascular graft. <i>Applied Materials Today</i> , <b>2021</b> , 25, 101198	6.6	1
2	Small molecule purmorphamine enhanced the osteoinductive capacity of electrospun HAp/SF fibers. <i>Journal of Controlled Release</i> , <b>2017</b> , 259, e12	11.7	
1	Electrospinning Nanocomposite Nanofibers of Hydroxyapatite/Chitosan. <i>Advanced Materials Research</i> , <b>2008</b> , 47-50, 1363-1366	0.5	