

Jingwei Xie

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

7,174
citations

44
h-index

84
g-index

104
ext. papers

8,275
ext. citations

9
avg, IF

6.33
L-index

#	Paper	IF	Citations
96	Electrospun Nanofibers: New Concepts, Materials, and Applications. <i>Accounts of Chemical Research</i> , 2017 , 50, 1976-1987	24.3	577
95	The differentiation of embryonic stem cells seeded on electrospun nanofibers into neural lineages. <i>Biomaterials</i> , 2009 , 30, 354-62	15.6	378
94	Conductive Core-Sheath Nanofibers and Their Potential Application in Neural Tissue Engineering. <i>Advanced Functional Materials</i> , 2009 , 19, 2312-2318	15.6	286
93	Putting Electrospun Nanofibers to Work for Biomedical Research. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1775-1792	4.8	286
92	Electrospun nanofibers for neural tissue engineering. <i>Nanoscale</i> , 2010 , 2, 35-44	7.7	281
91	Nanofiber scaffolds with gradations in mineral content for mimicking the tendon-to-bone insertion site. <i>Nano Letters</i> , 2009 , 9, 2763-8	11.5	274
90	Electrospun micro- and nanofibers for sustained delivery of paclitaxel to treat C6 glioma in vitro. <i>Pharmaceutical Research</i> , 2006 , 23, 1817-26	4.5	272
89	Radially aligned, electrospun nanofibers as dural substitutes for wound closure and tissue regeneration applications. <i>ACS Nano</i> , 2010 , 4, 5027-36	16.7	224
88	Neurite outgrowth on nanofiber scaffolds with different orders, structures, and surface properties. <i>ACS Nano</i> , 2009 , 3, 1151-9	16.7	211
87	Coating electrospun poly(epsilon-caprolactone) fibers with gelatin and calcium phosphate and their use as biomimetic scaffolds for bone tissue engineering. <i>Langmuir</i> , 2008 , 24, 14145-50	4	207
86	Electrohydrodynamic atomization for biodegradable polymeric particle production. <i>Journal of Colloid and Interface Science</i> , 2006 , 302, 103-12	9.3	198
85	Recent advances in electrospun nanofibers for wound healing. <i>Nanomedicine</i> , 2017 , 12, 1335-1352	5.6	197
84	Electrospinning: An enabling nanotechnology platform for drug delivery and regenerative medicine. <i>Advanced Drug Delivery Reviews</i> , 2018 , 132, 188-213	18.5	197
83	Electrohydrodynamic atomization: A two-decade effort to produce and process micro-/nanoparticulate materials. <i>Chemical Engineering Science</i> , 2015 , 125, 32-57	4.4	181
82	"Aligned-to-random" nanofiber scaffolds for mimicking the structure of the tendon-to-bone insertion site. <i>Nanoscale</i> , 2010 , 2, 923-6	7.7	173
81	Microparticles developed by electrohydrodynamic atomization for the local delivery of anticancer drug to treat C6 glioma in vitro. <i>Biomaterials</i> , 2006 , 27, 3321-32	15.6	167
80	Encapsulation of protein drugs in biodegradable microparticles by co-axial electrospray. <i>Journal of Colloid and Interface Science</i> , 2008 , 317, 469-76	9.3	141

79	Neurite outgrowth on electrospun nanofibers with uniaxial alignment: the effects of fiber density, surface coating, and supporting substrate. <i>ACS Nano</i> , 2014 , 8, 1878-85	16.7	140
78	3D Bioprinting: from Benches to Translational Applications. <i>Small</i> , 2019 , 15, e1805510	11	137
77	Encapsulation of proteins in biodegradable polymeric microparticles using electrospray in the Taylor cone-jet mode. <i>Biotechnology and Bioengineering</i> , 2007 , 97, 1278-90	4.9	121
76	Smart electrospun nanofibers for controlled drug release: recent advances and new perspectives. <i>Current Pharmaceutical Design</i> , 2015 , 21, 1944-59	3.3	118
75	Nanofiber scaffolds with gradients in mineral content for spatial control of osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2842-9	9.5	115
74	Nerve guidance conduits based on double-layered scaffolds of electrospun nanofibers for repairing the peripheral nervous system. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9472-80	9.5	113
73	Electrospray in the dripping mode for cell microencapsulation. <i>Journal of Colloid and Interface Science</i> , 2007 , 312, 247-55	9.3	108
72	Enhancing the stiffness of electrospun nanofiber scaffolds with a controlled surface coating and mineralization. <i>Langmuir</i> , 2011 , 27, 9088-93	4	97
71	Binary Doping of Strontium and Copper Enhancing Osteogenesis and Angiogenesis of Bioactive Glass Nanofibers while Suppressing Osteoclast Activity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24484-24496	9.5	86
70	Expanded 3D Nanofiber Scaffolds: Cell Penetration, Neovascularization, and Host Response. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2993-3003	10.1	85
69	Expanding Two-Dimensional Electrospun Nanofiber Membranes in the Third Dimension By a Modified Gas-Foaming Technique. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 991-1001	5.5	83
68	Complexation-induced resolution enhancement of 3D-printed hydrogel constructs. <i>Nature Communications</i> , 2020 , 11, 1267	17.4	83
67	Controlled biomineralization of electrospun poly(ϵ -caprolactone) fibers to enhance their mechanical properties. <i>Acta Biomaterialia</i> , 2013 , 9, 5698-707	10.8	82
66	Electrospraying an enabling technology for pharmaceutical and biomedical applications: A review. <i>Journal of Aerosol Science</i> , 2018 , 125, 164-181	4.3	79
65	Self-assembled biodegradable nanoparticles developed by direct dialysis for the delivery of paclitaxel. <i>Pharmaceutical Research</i> , 2005 , 22, 2079-90	4.5	76
64	Emerging Roles of Electrospun Nanofibers in Cancer Research. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701024	10.1	75
63	Mineralized nanofiber segments coupled with calcium-binding BMP-2 peptides for alveolar bone regeneration. <i>Acta Biomaterialia</i> , 2019 , 85, 282-293	10.8	63
62	Novel 3D Hybrid Nanofiber Aerogels Coupled with BMP-2 Peptides for Cranial Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701415	10.1	60

61	Biodegradable microparticles and fiber fabrics for sustained delivery of cisplatin to treat C6 glioma in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 897-908	5.4	59
60	Laser-Induced Graphene for Electrothermally Controlled, Mechanically Guided, 3D Assembly and Human-Soft Actuators Interaction. <i>Advanced Materials</i> , 2020 , 32, e1908475	24	57
59	Fabrication of injectable and superelastic nanofiber rectangle matrices ("peanuts") and their potential applications in hemostasis. <i>Biomaterials</i> , 2018 , 179, 46-59	15.6	55
58	New forms of electrospun nanofiber materials for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 3733-3746	7.3	54
57	Rational design of nanofiber scaffolds for orthopedic tissue repair and regeneration. <i>Nanomedicine</i> , 2013 , 8, 1459-81	5.6	53
56	Submicron bioactive glass tubes for bone tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 811-9	10.8	53
55	Dissolvable Microneedles Coupled with Nanofiber Dressings Eradicate Biofilms Effectively Delivering a Database-Designed Antimicrobial Peptide. <i>ACS Nano</i> , 2020 , 14, 11775-11786	16.7	53
54	Bioprinting: 3D Bioprinting: from Benches to Translational Applications (Small 23/2019). <i>Small</i> , 2019 , 15, 1970126	11	50
53	CO-expanded nanofiber scaffolds maintain activity of encapsulated bioactive materials and promote cellular infiltration and positive host response. <i>Acta Biomaterialia</i> , 2018 , 68, 237-248	10.8	47
52	Sandwich-type fiber scaffolds with square arrayed microwells and nanostructured cues as microskin grafts for skin regeneration. <i>Biomaterials</i> , 2014 , 35, 630-41	15.6	41
51	Twisting electrospun nanofiber fine strips into functional sutures for sustained co-delivery of gentamicin and silver. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 1435-1445	6	39
50	Electrospraying Electrospun Nanofiber Segments into Injectable Microspheres for Potential Cell Delivery. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25069-25079	9.5	38
49	Three-Dimensional Objects Consisting of Hierarchically Assembled Nanofibers with Controlled Alignments for Regenerative Medicine. <i>Nano Letters</i> , 2019 , 19, 2059-2065	11.5	36
48	Mesenchymal stem cell-laden, personalized 3D scaffolds with controlled structure and fiber alignment promote diabetic wound healing. <i>Acta Biomaterialia</i> , 2020 , 108, 153-167	10.8	33
47	Nanofiber membranes with controllable microwells and structural cues and their use in forming cell microarrays and neuronal networks. <i>Small</i> , 2011 , 7, 293-7	11	31
46	Biodegradable films developed by electrospray deposition for sustained drug delivery. <i>Journal of Pharmaceutical Sciences</i> , 2008 , 97, 3109-22	3.9	29
45	Fabrication of nanofiber scaffolds with gradations in fiber organization and their potential applications. <i>Macromolecular Bioscience</i> , 2012 , 12, 1336-41	5.5	27
44	Fabrication of novel 3D nanofiber scaffolds with anisotropic property and regular pores and their potential applications. <i>Advanced Healthcare Materials</i> , 2012 , 1, 674-8	10.1	24

43	Converting 2D Nanofiber Membranes to 3D Hierarchical Assemblies with Structural and Compositional Gradients Regulates Cell Behavior. <i>Advanced Materials</i> , 2020 , 32, e2003754	24	24
42	Nanofiber Dressings Topically Delivering Molecularly Engineered Human Cathelicidin Peptides for the Treatment of Biofilms in Chronic Wounds. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2011-2020	5.6	23
41	Proliferation of genetically modified human cells on electrospun nanofiber scaffolds. <i>Molecular Therapy - Nucleic Acids</i> , 2012 , 1, e59	10.7	22
40	Thermally Triggered Mechanically Destructive Electronics Based On Electrospun Poly(E-caprolactone) Nanofibrous Polymer Films. <i>Scientific Reports</i> , 2017 , 7, 947	4.9	21
39	Tannic acid-inspired, self-healing, and dual stimuli responsive dynamic hydrogel with potent antibacterial and anti-oxidative properties. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 7182-7195	7.3	21
38	Electric field controlled electro spray deposition for precise particle pattern and cell pattern formation. <i>AIChE Journal</i> , 2010 , 56, 2607-2621	3.6	20
37	Local Sustained Delivery of 25-Hydroxyvitamin D3 for Production of Antimicrobial Peptides. <i>Pharmaceutical Research</i> , 2015 , 32, 2851-62	4.5	18
36	Three-dimensional nanofiber scaffolds with arrayed holes for engineering skin tissue constructs. <i>MRS Communications</i> , 2017 , 7, 361-366	2.7	17
35	Electrical Field Guided Electro spray Deposition for Production of Gradient Particle Patterns. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18499-18506	9.5	17
34	Fast transformation of 2D nanofiber membranes into pre-molded 3D scaffolds with biomimetic and oriented porous structure for biomedical applications. <i>Applied Physics Reviews</i> , 2020 , 7, 021406	17.3	16
33	Tethering peptides onto biomimetic and injectable nanofiber microspheres to direct cellular response. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 22, 102081	6	15
32	Engineering Biomimetic Nanofiber Microspheres with Tailored Size, Predesigned Structure, and Desired Composition via Gas Bubble-Mediated Coaxial Electro spray. <i>Small</i> , 2020 , 16, e1907393	11	14
31	Decorating 3D Printed Scaffolds with Electrospun Nanofiber Segments for Tissue Engineering. <i>Advanced Biology</i> , 2019 , 3, e1900137	3.5	14
30	3D Hybrid Nanofiber Aerogels Combining with Nanoparticles Made of a Biocleavable and Targeting Polycation and MiR-26a for Bone Repair. <i>Advanced Functional Materials</i> , 2020 , 30, 2005531	15.6	13
29	25-dihydroxyvitamin D-eluting nanofibrous dressings induce endogenous antimicrobial peptide expression. <i>Nanomedicine</i> , 2018 , 13, 1417-1432	5.6	13
28	Nanofiber-based sutures induce endogenous antimicrobial peptide. <i>Nanomedicine</i> , 2017 , 12, 2597-2609	5.6	12
27	Biomaterials with structural hierarchy and controlled 3D nanotopography guide endogenous bone regeneration. <i>Science Advances</i> , 2021 , 7,	14.3	12
26	Nanoparticulate formulations for paclitaxel delivery across MDCK cell monolayer. <i>Current Pharmaceutical Design</i> , 2010 , 16, 2331-40	3.3	11

25	Freeze-Casting with 3D-Printed Templates Creates Anisotropic Microchannels and Patterned Macrochannels within Biomimetic Nanofiber Aerogels for Rapid Cellular Infiltration. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100238	10.1	11
24	Dual Delivery of Alendronate and E7-BMP-2 Peptide via Calcium Chelation to Mineralized Nanofiber Fragments for Alveolar Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 2368-2375	5.5	10
23	Eluted 25-hydroxyvitamin D from radially aligned nanofiber scaffolds enhances cathelicidin production while reducing inflammatory response in human immune system-engrafted mice. <i>Acta Biomaterialia</i> , 2019 , 97, 187-199	10.8	10
22	Expanding sacrificially printed microfluidic channel-embedded paper devices for construction of volumetric tissue models in vitro. <i>Biofabrication</i> , 2020 , 12, 045027	10.5	10
21	Short and Robust Anti-Infective Lipopeptides Engineered Based on the Minimal Antimicrobial Peptide KR12 of Human LL-37. <i>ACS Infectious Diseases</i> , 2021 , 7, 1795-1808	5.5	9
20	Ultra-absorptive Nanofiber Swabs for Improved Collection and Test Sensitivity of SARS-CoV-2 and other Biological Specimens. <i>Nano Letters</i> , 2021 , 21, 1508-1516	11.5	9
19	Highly controlled coating of strontium-doped hydroxyapatite on electrospun poly(ϵ -caprolactone) fibers. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 753-763	3.5	8
18	Minimally Invasive Delivery of 3D Shape Recoverable Constructs with Ordered Structures for Tissue Repair. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2204-2211	5.5	7
17	A mouse model for vitamin D-induced human cathelicidin antimicrobial peptide gene expression. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2020 , 198, 105552	5.1	6
16	Bioinspired elastomer composites with programmed mechanical and electrical anisotropies.. <i>Nature Communications</i> , 2022 , 13, 524	17.4	5
15	Simultaneous Delivery of Multiple Antimicrobial Agents by Biphasic Scaffolds for Effective Treatment of Wound Biofilms. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100135	10.1	5
14	Electrostatic Flocking of Insulative and Biodegradable Polymer Microfibers for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100766	10.1	5
13	Periosteum Mimetic Coating on Structural Bone Allografts Electrospray Deposition Enhances Repair and Reconstruction of Segmental Defects. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 6241-6252 ⁴	5.5	4
12	Large-scale synthesis of compressible and re-expandable three-dimensional nanofiber matrices. <i>Nano Select</i> , 2021 , 2, 1566-1579	3.1	4
11	Expansion of Two-dimension Electrospun Nanofiber Mats into Three-dimension Scaffolds. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	2
10	Nanofiber Microspheres: Engineering Biomimetic Nanofiber Microspheres with Tailored Size, Predesigned Structure, and Desired Composition via Gas Bubble Mediated Coaxial Electro spray (Small 19/2020). <i>Small</i> , 2020 , 16, 2070104	11	2
9	Electrospun nanofiber scaffolds with gradations in fiber organization. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	2
8	3D bioprinting of multilayered scaffolds with spatially differentiated ADMSCs for rotator cuff tendon-to-bone interface regeneration. <i>Applied Materials Today</i> , 2022 , 27, 101510	6.6	2

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| 7 | Electrostatic flocking of salt-treated microfibers and nanofiber yarns for regenerative engineering..
<i>Materials Today Bio</i> , 2021 , 12, 100166 | 9.9 | 1 |
| 6 | Bone Regeneration: Novel 3D Hybrid Nanofiber Aerogels Coupled with BMP-2 Peptides for Cranial Bone Regeneration (Adv. Healthcare Mater. 10/2018). <i>Advanced Healthcare Materials</i> , 2018 , 7, 1870042 | 10.1 | 1 |
| 5 | Codelivery of 1,25-Dihydroxyvitamin D and CYP24A1 Inhibitor VID400 by Nanofiber Dressings Promotes Endogenous Antimicrobial Peptide LL-37 Induction.. <i>Molecular Pharmaceutics</i> , 2022 , 19, 974-984 | 5.6 | 1 |
| 4 | Understanding and utilizing textile-based electrostatic flocking for biomedical applications..
<i>Applied Physics Reviews</i> , 2021 , 8, 041326 | 17.3 | 1 |
| 3 | Electrospun nanofiber matrix for tissue repair and regeneration 2022 , 175-191 | | |
| 2 | Advances in Modeling Alzheimer's Disease In Vitro. <i>Advanced NanoBiomed Research</i> , 2100097 | 0 | |
| 1 | Cell Scaffolds: Expanded 3D Nanofiber Scaffolds: Cell Penetration, Neovascularization, and Host Response (Adv. Healthcare Mater. 23/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 2962-2962 | 10.1 | |