Shixuan Chen

List of Publications by Year
in descending order

34 papers	2,067 citations	331670 21 h-index	395702 33 g-index
35 all docs	35 docs citations	35 times ranked	3013 citing authors

#	Article	IF	Citations
1	Ultra-absorptive Nanofiber Swabs for Improved Collection and Test Sensitivity of SARS-CoV-2 and other Biological Specimens. Nano Letters, 2021, 21, 1508-1516.	9.1	24
2	Largeâ€scale synthesis of compressible and reâ€expandable threeâ€dimensional nanofiber matrices. Nano Select, 2021, 2, 1566-1579.	3.7	7
3	Minimally Invasive Delivery of 3D Shape Recoverable Constructs with Ordered Structures for Tissue Repair. ACS Biomaterials Science and Engineering, 2021, 7, 2204-2211.	5.2	16
4	Electrostatic Flocking of Insulative and Biodegradable Polymer Microfibers for Biomedical Applications. Advanced Healthcare Materials, 2021, 10, e2100766.	7.6	14
5	Biomaterials with structural hierarchy and controlled 3D nanotopography guide endogenous bone regeneration. Science Advances, 2021, 7, .	10.3	39
6	Dissolvable Microneedles Coupled with Nanofiber Dressings Eradicate Biofilms via Effectively Delivering a Database-Designed Antimicrobial Peptide. ACS Nano, 2020, 14, 11775-11786.	14.6	129
7	Converting 2D Nanofiber Membranes to 3D Hierarchical Assemblies with Structural and Compositional Gradients Regulates Cell Behavior. Advanced Materials, 2020, 32, e2003754.	21.0	49
8	Fast transformation of 2D nanofiber membranes into pre-molded 3D scaffolds with biomimetic and oriented porous structure for biomedical applications. Applied Physics Reviews, 2020, 7, 021406.	11.3	33
9	Nanofiber Microspheres: Engineering Biomimetic Nanofiber Microspheres with Tailored Size, Predesigned Structure, and Desired Composition via Gas Bubbleâ€“Mediated Coaxial Electrospray (Small) Tj ETQq1 1 0.784314 rgBT /O	10.0	44
10	New forms of electrospun nanofiber materials for biomedical applications. Journal of Materials Chemistry B, 2020, 8, 3733-3746.	5.8	90
11	Engineering Biomimetic Nanofiber Microspheres with Tailored Size, Predesigned Structure, and Desired Composition via Gas Bubbleâ€“Mediated Coaxial Electrospray. Small, 2020, 16, e1907393.	10.0	26
12	Mesenchymal stem cell-laden, personalized 3D scaffolds with controlled structure and fiber alignment promote diabetic wound healing. Acta Biomaterialia, 2020, 108, 153-167.	8.3	74
13	Recent Advances in Tissue Adhesives for Clinical Medicine. Polymers, 2020, 12, 939.	4.5	84
14	Intracellular microtubules as nano-scaffolding template self-assembles with conductive carbon nanotubes for biomedical device. Materials Science and Engineering C, 2020, 113, 110971.	7.3	6
15	Tethering peptides onto biomimetic and injectable nanofiber microspheres to direct cellular response. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 22, 102081.	3.3	22
16	Eluted 25-hydroxyvitamin D3 from radially aligned nanofiber scaffolds enhances cathelicidin production while reducing inflammatory response in human immune system-engrafted mice. Acta Biomaterialia, 2019, 97, 187-199.	8.3	20
17	Expansion of Two-dimension Electrospun Nanofiber Mats into Three-dimension Scaffolds. Journal of Visualized Experiments, 2019, , .	0.3	3
18	A skin-inspired 3D bilayer scaffold enhances granulation tissue formation and anti-infection for diabetic wound healing. Journal of Materials Chemistry B, 2019, 7, 2954-2961.	5.8	51

#	Article	IF	Citations
19	Three-Dimensional Objects Consisting of Hierarchically Assembled Nanofibers with Controlled Alignments for Regenerative Medicine. Nano Letters, 2019, 19, 2059-2065.	9.1	56
20	CO2-expanded nanofiber scaffolds maintain activity of encapsulated bioactive materials and promote cellular infiltration and positive host response. Acta Biomaterialia, 2018, 68, 237-248.	8.3	72
21	Electrospinning: An enabling nanotechnology platform for drug delivery and regenerative medicine. Advanced Drug Delivery Reviews, 2018, 132, 188-213.	13.7	285
22	Fabrication of injectable and superelastic nanofiber rectangle matrices (â€œpeanutsâ€) and their potential applications in hemostasis. Biomaterials, 2018, 179, 46-59.	11.4	96
23	Electrospraying Electrospun Nanofiber Segments into Injectable Microspheres for Potential Cell Delivery. ACS Applied Materials & Interfaces, 2018, 10, 25069-25079.	8.0	64
24	Emerging Roles of Electrospun Nanofibers in Cancer Research. Advanced Healthcare Materials, 2018, 7, e1701024.	7.6	114
25	Twisting electrospun nanofiber fine strips into functional sutures for sustained co-delivery of gentamicin and silver. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1435-1445.	3.3	49
26	Recent advances in electrospun nanofibers for wound healing. Nanomedicine, 2017, 12, 1335-1352.	3.3	282
27	Nanofiber-based sutures induce endogenous antimicrobial peptide. Nanomedicine, 2017, 12, 2597-2609.	3.3	16
28	Peptide-Modified Chitosan Hydrogels Accelerate Skin Wound Healing by Promoting Fibroblast Proliferation, Migration, and Secretion. Cell Transplantation, 2017, 26, 1331-1340.	2.5	45
29	Peptide-modified Chitosan Hydrogel accelerates skin wound healing by promoting fibroblast proliferation, migration and secretion. Cell Transplantation, 2017, , .	2.5	0
30	Mesenchymal stem cell-laden anti-inflammatory hydrogel enhances diabetic wound healing. Scientific Reports, 2016, 5, 18104.	3.3	135
31	Preparation of a small intestinal submucosa modified polypropylene hybrid mesh via a mussel-inspired polydopamine coating for pelvic reconstruction. Journal of Biomaterials Applications, 2016, 30, 1385-1391.	2.4	14
32	Study of stiffness effects of poly(amidoamine)â€“poly(n-isopropyl acrylamide) hydrogel on wound healing. Colloids and Surfaces B: Biointerfaces, 2016, 140, 574-582.	5.0	46
33	A laminin mimetic peptide SIKVAV-conjugated chitosan hydrogel promoting wound healing by enhancing angiogenesis, re-epithelialization and collagen deposition. Journal of Materials Chemistry B, 2015, 3, 6798-6804.	5.8	53
34	Activin B Promotes BMSC-Mediated Cutaneous Wound Healing by Regulating Cell Migration via the JNKâ€”ERK Signaling Pathway. Cell Transplantation, 2014, 23, 1061-1073.	2.5	49