

In vitro and in vivo evaluation of chitosan-alginate/gen nanofibrous with high antibacterial performance

Polymer Testing

82, 106298

DOI: [10.1016/j.polymertesting.2019.106298](https://doi.org/10.1016/j.polymertesting.2019.106298)

Citation Report

#	ARTICLE	IF	CITATIONS
1	An Overview of Biopolymeric Electrospun Nanofibers Based on Polysaccharides for Wound Healing Management. <i>Pharmaceutics</i> , 2020, 12, 983.	2.0	116
2	Synthesis of Antibacterial Gelatin/Sodium Alginate Sponges and Their Antibacterial Activity. <i>Polymers</i> , 2020, 12, 1926.	2.0	18
3	Recent Trends in Three-Dimensional Bioinks Based on Alginate for Biomedical Applications. <i>Materials</i> , 2020, 13, 3980.	1.3	49
4	Antioxidant, Antimicrobial and Antiviral Properties of Herbal Materials. <i>Antioxidants</i> , 2020, 9, 1309.	2.2	199
5	Sustainable Rabbit Skin Glue to Produce Bioactive Nanofibers for Nonactive Wound Dressings. <i>Materials</i> , 2020, 13, 5388.	1.3	6
6	Electrospun Nano-Fibers for Biomedical and Tissue Engineering Applications: A Comprehensive Review. <i>Materials</i> , 2020, 13, 2153.	1.3	108
7	Three-Dimensional Printing Constructs Based on the Chitosan for Tissue Regeneration: State of the Art, Developing Directions and Prospect Trends. <i>Materials</i> , 2020, 13, 2663.	1.3	52
8	2D and 3D electrospinning technologies for the fabrication of nanofibrous scaffolds for skin tissue engineering: A review. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1626.	3.3	145
9	Exploiting synergistic effect of externally loaded bFGF and endogenous growth factors for accelerated wound healing using heparin functionalized PCL/gelatin co-spun nanofibrous patches. <i>Chemical Engineering Journal</i> , 2021, 404, 126518.	6.6	51
10	Advancements and future directions in the antibacterial wound dressings – A review. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 703-716.	1.6	47
11	Delivery of Therapeutics from Layer-by-Layer Electrospun Nanofiber Matrix for Wound Healing: An Update. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 635-653.	1.6	81
12	Testing of fast dissolution of ibuprofen from its electrospun hydrophilic polymer nanocomposites. <i>Polymer Testing</i> , 2021, 93, 106872.	2.3	45
13	Alginate-based bionanocomposites in wound dressings. , 2021, , 351-375.		1
14	Antimicrobial textiles for skin and wound infection management. , 2021, , 313-347.		2
15	Additive Manufacturing of Polymer Matrix Composites. , 2021, , 1013-1028.		4
16	Antimicrobial Double-Layer Wound Dressing Based on Chitosan/Polyvinyl Alcohol/Copper: In vitro and in vivo Assessment. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 223-235.	3.3	79
17	Antibiotic-Loaded Psyllium Husk Hemicellulose and Gelatin-Based Polymeric Films for Wound Dressing Application. <i>Pharmaceutics</i> , 2021, 13, 236.	2.0	15
18	Electrospun nanofibrous scaffolds of μ -polycaprolactone containing graphene oxide and encapsulated with magnetite nanoparticles for wound healing utilizations. <i>Materials Research Express</i> , 2021, 8, 025013.	0.8	19

#	ARTICLE	IF	CITATIONS
19	Natural Ingredients in Functional Coatings—Recent Advances and Future Challenges. <i>Coatings</i> , 2021, 11, 429.	1.2	4
20	Recent Biomedical Approaches for Chitosan Based Materials as Drug Delivery Nanocarriers. <i>Pharmaceutics</i> , 2021, 13, 587.	2.0	55
21	Evaluation of a novel bioactive wound dressing: an in vitro and in vivo study. <i>Journal of Wound Care</i> , 2021, 30, 482-490.	0.5	2
22	A Brief Review on Additive Manufacturing of Polymeric Composites and Nanocomposites. <i>Micromachines</i> , 2021, 12, 704.	1.4	19
23	Electrospinning for drug delivery applications: A review. <i>Journal of Controlled Release</i> , 2021, 334, 463-484.	4.8	345
24	Application of Electrospinning in Antibacterial Field. <i>Nanomaterials</i> , 2021, 11, 1822.	1.9	39
25	Natural Polymer-Based Composite Wound Dressings. <i>Advances in Material Research and Technology</i> , 2022, , 401-423.	0.3	2
26	<i>In vitro</i> and <i>in vivo</i> advancement of multifunctional electrospun nanofiber scaffolds in wound healing applications: Innovative nanofiber designs, stem cell approaches, and future perspectives. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 443-461.	2.1	41
27	Polymeric wound dressings, an insight into polysaccharide-based electrospun membranes. <i>Applied Materials Today</i> , 2021, 24, 101148.	2.3	45
28	In vivo and in vitro evaluation of the wound healing properties of chitosan extracted from <i>Trametes versicolor</i> . <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	9
29	Facile design and development of nano-clustered graphene-based macromolecular protein hydrogel loaded with ciprofloxacin to antibacterial improvement for the treatment of burn wound injury. <i>Polymer Bulletin</i> , 2022, 79, 7953-7968.	1.7	6
30	A review of medicinal plant-based bioactive electrospun nano fibrous wound dressings. <i>Materials and Design</i> , 2021, 209, 109942.	3.3	52
31	Recent Updates on Biopolymers based Wound Dressings. <i>Asian Journal of Chemistry</i> , 2021, 33, 1457-1470.	0.1	1
32	Rifampicin-Loaded Alginate-Gelatin Fibers Incorporated within Transdermal Films as a Fiber-in-Film System for Wound Healing Applications. <i>Membranes</i> , 2021, 11, 7.	1.4	19
33	Marine Polysaccharides for Wound Dressings Application: An Overview. <i>Pharmaceutics</i> , 2021, 13, 1666.	2.0	61
34	An Up-to-Date Review on Alginate Nanoparticles and Nanofibers for Biomedical and Pharmaceutical Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100809.	1.9	44
35	Biological macromolecules as antimicrobial agents. , 2022, , 165-202.		4
36	Nanofibrous scaffolds for skin tissue engineering and wound healing applications. , 2022, , 645-681.		4

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37	Enhanced corrosion resistance, antibacterial activity and biocompatibility of gentamicin-montmorillonite coating on Mg alloy-in vitro and in vivo studies. <i>Journal of Materials Science and Technology</i> , 2022, 111, 167-180.	5.6	26
38	Therapeutic potential of dexamethasone Nano chitosan synthesized from chitosan as a novel treatment of pulmonary fibrosis in C57BL/6 mice. <i>Alexandria Journal of Medicine</i> , 2021, 57, 247-259.	0.4	2
39	Antimicrobial and wound healing activities of electrospun nanofibers based on functionalized carbohydrates and proteins. <i>Cellulose</i> , 2022, 29, 1331-1347.	2.4	15
40	Effects of solvents on electrospun fibers and the biological application of different hydrophilic electrospun mats. <i>Materials Today Communications</i> , 2022, 30, 103093.	0.9	7
41	Chitosan/Alginate Hydrogel Dressing Loaded FGF/VE-Cadherin to Accelerate Full-Thickness Skin Regeneration and More Normal Skin Repairs. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1249.	1.8	33
42	Nanobiomaterials for wound healing. , 2022, , 109-139.		1
43	Advances in the use of electrospinning as a promising technique for obtaining nanofibers to guide epithelial wound healing in diabeticsâ€”Miniâ€™review. <i>Polymers for Advanced Technologies</i> , 2022, 33, 1031-1046.	1.6	9
44	Fabrication of chitosan/alginate/hydroxyapatite hybrid scaffolds using 3D printing and impregnating techniques for potential cartilage regeneration. <i>International Journal of Biological Macromolecules</i> , 2022, 204, 62-75.	3.6	62
45	Recent advances in electrospinning of nanofibers from bio-based carbohydrate polymers and their applications. <i>Trends in Food Science and Technology</i> , 2022, 120, 308-324.	7.8	88
46	Bioprocess development for bacterial cellulose biosynthesis by novel <i>Lactiplantibacillus plantarum</i> isolate along with characterization and antimicrobial assessment of fabricated membrane. <i>Scientific Reports</i> , 2022, 12, 2181.	1.6	20
47	Development and Characterization of Gentamicin-Loaded Arabinoxylan-Sodium Alginate Films as Antibacterial Wound Dressing. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2899.	1.8	16
48	Recent Progress and Potential Biomedical Applications of Electrospun Nanofibers in Regeneration of Tissues and Organs. <i>Polymers</i> , 2022, 14, 1508.	2.0	17
49	Antimicrobial Synthetic and Natural Polymeric Nanofibers as Wound Dressing: A Review. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	30
50	Hyaluronic acid and chitosan-based electrospun wound dressings: Problems and solutions. <i>International Journal of Biological Macromolecules</i> , 2022, 206, 74-91.	3.6	29
51	Composites Based on Gellan Gum, Alginate and Nisin-Enriched Lipid Nanoparticles for the Treatment of Infected Wounds. <i>International Journal of Molecular Sciences</i> , 2022, 23, 321.	1.8	19
52	An Overview on the Recent Advances in the Treatment of Infected Wounds: Antibacterial Wound Dressings. <i>Macromolecular Bioscience</i> , 2022, 22, e2200014.	2.1	26
53	Advancement of Nanofibrous Mats and Common Useful Drug Delivery Applications. <i>Advances in Pharmacological and Pharmaceutical Sciences</i> , 2022, 2022, 1-14.	0.7	1
54	Marine Biopolymers as Bioactive Functional Ingredients of Electrospun Nanofibrous Scaffolds for Biomedical Applications. <i>Marine Drugs</i> , 2022, 20, 314.	2.2	22

#	ARTICLE	IF	CITATIONS
55	Magnetite Nanoparticles Functionalized with Therapeutic Agents for Enhanced ENT Antimicrobial Properties. <i>Antibiotics</i> , 2022, 11, 623.	1.5	17
56	Development of green and sustainable smart biochromic and therapeutic bandage using red cabbage (<i>Brassica oleracea</i> L. Var. capitata) extract encapsulated into alginate nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2022, 211, 390-399.	3.6	11
57	A review on wound dressings: Antimicrobial agents, biomaterials, fabrication techniques, and stimuli-responsive drug release. <i>European Polymer Journal</i> , 2022, 173, 111293.	2.6	35
58	Electrohydrodynamic processing of phycocolloids for food-related applications: Recent advances and future prospects. <i>Trends in Food Science and Technology</i> , 2022, 125, 114-125.	7.8	5
59	A Review on Antibacterial Biomaterials in Biomedical Applications: From Materials Perspective to Bioinks Design. <i>Polymers</i> , 2022, 14, 2238.	2.0	24
60	Comparison of antibacterial property of herbal plantâ€“based bio-active extract loaded polymer electrospun nanofibrous mat wound dressings. <i>Journal of Industrial Textiles</i> , 2022, 51, 1793S-1814S.	1.1	4
61	Layered Fibrous Scaffolds/Membranes in Wound Healing. <i>Advances in Polymer Science</i> , 2022, , .	0.4	0
62	Chitosans and Nanochitosans: Recent Advances in Skin Protection, Regeneration, and Repair. <i>Pharmaceutics</i> , 2022, 14, 1307.	2.0	21
63	Alginate-based wound dressings for skin healing and regeneration. , 2022, , 381-416.		1
64	Natural polymer based electrospun systems for wound management. , 2022, , 167-186.		0
65	Accelerating the excisional wound closure by using the patterned microstructural nanofibrous mats/gentamicin-loaded hydrogel composite scaffold. <i>Materials Today Bio</i> , 2022, 16, 100347.	2.6	15
67	The effect of silver nanoparticles toward properties and antibacterial activity of silver-alginate nanocomposite films. <i>Frontiers in Sustainable Food Systems</i> , 0, 6, .	1.8	3
68	Simultaneous loading of clarithromycin and zinc oxide into the chitosan/gelatin/polyurethane coreâ€“shell nanofibers for wound dressing. <i>Journal of Dispersion Science and Technology</i> , 2023, 44, 2664-2674.	1.3	2
69	Natural polymers for wound dressing applications. <i>Studies in Natural Products Chemistry</i> , 2022, , 367-441.	0.8	6
70	Nanocomposite scaffolds and coatings for wound healing and infection control. , 2023, , 69-99.		2
71	Plasma-Initiated Grafting of Bioactive Peptide onto Nano-CuO/Tencel Membrane. <i>Polymers</i> , 2022, 14, 4497.	2.0	1
72	Recent Advances in Functional Wound Dressings. <i>Advances in Wound Care</i> , 2023, 12, 399-427.	2.6	4
73	Antibacterial Porous Systems Based on Polylactide Loaded with Amikacin. <i>Molecules</i> , 2022, 27, 7045.	1.7	2

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74	Controlled Drug Release Using Chitosan-Alginate-Gentamicin Multi-Component Beads. <i>Materials</i> , 2022, 15, 7682.	1.3	0
75	Fabrication and development of PVA/Alginate nanofibrous mats containing Arnebia Euchroma extract as a burn wound dressing. <i>Reactive and Functional Polymers</i> , 2022, 181, 105440.	2.0	13
76	Stretchable, conductive, breathable and moisture-sensitive e-skin based on CNTs/graphene/GelMA mat for wound monitoring. , 2022, 143, 213172.		10
77	Alginate based polymeric systems for drug delivery, antibacterial/microbial, and wound dressing applications. <i>Materials Today Communications</i> , 2022, 33, 104813.	0.9	20
78	Influence of <i>Triplaris gardneriana</i> Wedd ethanolic extract in the chemic-mechanics properties of chitosan: Polyvinyl alcohol membranes as intelligent curatives. <i>Materials Today Communications</i> , 2023, 34, 105153.	0.9	0
79	Production of Gentamycin-Loaded Poly(Vinyl Alcohol)/Gelatin Nanofiber by Electrospinning Method as Wound Dressing Material. <i>Konya Journal of Engineering Sciences</i> , 2022, 10, 878-888.	0.1	1
80	Asymmetric wettable polycaprolactone-chitosan/chitosan oligosaccharide nanofibrous membrane as antibacterial dressings. <i>Carbohydrate Polymers</i> , 2023, 304, 120485.	5.1	24
81	Citric acid crosslinked biocompatible silk fibroin-mediated porous chitosan films for sustained drug release application. <i>Materials Today Communications</i> , 2023, 34, 105373.	0.9	8
82	Antimicrobial Natural Hydrogels in Biomedicine: Properties, Applications, and Challengesâ€”A Concise Review. <i>International Journal of Molecular Sciences</i> , 2023, 24, 2191.	1.8	14
83	Bacterial cellulose as a potential biopolymer for wound care. A review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2024, 73, 455-477.	1.8	5
84	Antimicrobial electrospun membranes. , 2023, , 501-519.		1
85	A multifunctional sateen woven dressings for treatment of skin injuries. <i>Colloids and Surfaces B: Biointerfaces</i> , 2023, 224, 113197.	2.5	1
86	A Novel Strategy as a Potential Rapid Therapy Modality in the Treatment of Corneal Ulcers: Fluconazole/Vancomycin Dual Drugâ€”Loaded Nanofibrous Patches. <i>Macromolecular Materials and Engineering</i> , 2023, 308, .	1.7	2
87	Advancement and future perspectives on ampicillin-loaded antimicrobial polymers- A review. <i>Journal of Drug Delivery Science and Technology</i> , 2023, 81, 104227.	1.4	2
88	Nanofibres in Drug Delivery Applications. <i>Fibers</i> , 2023, 11, 21.	1.8	21
89	Recent trends in diabetic wound healing with nanofibrous scaffolds. <i>European Journal of Pharmacology</i> , 2023, 945, 175617.	1.7	6
90	Synthesis and characterization of polyvinyl alcohol/dextran/Zataria wound dressing with superior antibacterial and antioxidant properties. <i>Journal of Vinyl and Additive Technology</i> , 2023, 29, 380-394.	1.8	4
91	Wound Dressing Modifications for Accelerated Healing of Infected Wounds. <i>International Journal of Molecular Sciences</i> , 2023, 24, 7193.	1.8	9

#	ARTICLE	IF	CITATIONS
92	Preclinical performance testing of medical devices with antimicrobial effects. , 2023, 1, 589-605.		1
99	A Review on the Recent Developments in Electrospun Nanofibers for Drug Delivery. , 2024, 2, 342-364.		0
105	Advantages of Nanomedicine Over Conventional Therapeutics. Learning Materials in Biosciences, 2023, , 45-85.	0.2	0