CITATION REPORT List of articles citing

Evaluation of the antimicrobial activity of chitosan and its quaternized derivative on E. coli and S. aureus growth

DOI: 10.1016/j.bjp.2015.09.010 Revista Brasileira De Farmacognosia, 2016, 26, 122-127.

Source: https://exaly.com/paper-pdf/65342060/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper IF	Citations
304	Chitosan-Based Coating with Antimicrobial Agents: Preparation, Property, Mechanism, and Application Effectiveness on Fruits and Vegetables. 2016 , 2016, 1-24	63
303	Antimicrobial Silver Nanoclusters Bearing Biocompatible Phosphorylcholine-Based Zwitterionic Protection. 2016 , 27, 2527-2533	23
302	Improving properties of Hanji by coating chitosan-silver nanoparticle solution. 2016 , 93, 933-939	7
301	Transglutaminase catalyzed hydrolyzed wheat gliadin grafted with chitosan oligosaccharide and its characterization. 2016 , 153, 105-114	16
300	Recent research progress on preparation and application of N, N, N-trimethyl chitosan. 2016 , 434, 27-32	48
299	Chitosan grafted monomethyl fumaric acid as a potential food preservative. 2016 , 152, 87-96	37
298	Comparative study of preparation, characterization and anticandidal activities of a chitosan silver nanocomposite (CAgNC) compared with low molecular weight chitosan (LMW-chitosan). 2016 , 6, 33455-33467	1 ¹⁰
297	Effect of Chitosan Physical Form on Its Antibacterial Activity Against Pathogenic Bacteria. 2017, 82, 679-686	17
296	Chitosan-mediated synthesis of flowery-CuO, and its antibacterial and catalytic properties. 2017 , 172, 78-84	18
295	Effect of chitosan silver nanoparticle coating on functional properties of Korean traditional paper. 2017 , 110, 16-23	11
294	Synbiotic loaded chitosan-Ca-alginate microparticles reduces inflammation in the TNBS model of rat colitis. 2017 , 527, 126-134	25
293	Synthesis of hybrid paper sheets with enhanced air barrier and antimicrobial properties for food packaging. 2017 , 168, 212-219	41
292	Synthesis and Assessment of Novel Gelatinthitosan Lactate Cohydrogels for Controlled Delivery and Tissue Engineering Applications. 2017 , 56, 1457-1467	5
291	Potential Biomedical Applications of Chitosan 🖾 nd Chitosan-Based Nanomaterials. 2017, 385-408	3
290	Disinfection of water with new chitosan-modified hybrid clay composite adsorbent. 2017 , 3, e00379	23
289	Chitosan encapsulation of essential oil "cocktails" with well-defined binary Zn(II)-Schiff base species targeting antibacterial medicinal nanotechnology. 2017 , 176, 24-37	7
288	Active films based on thermoplastic corn starch and chitosan oligomer for food packaging applications. 2017 , 14, 128-136	46

(2018-2017)

287	Rapid fluorometric bacteria detection assay and photothermal effect by fluorescent polymer of coated surfaces and aqueous state. 2017 , 89, 1026-1033	23
286	Antimicrobial efficacy and safety of mucoadhesive exopolymer produced by Acinetobacter haemolyticus. 2017 , 94, 187-193	1
285	Antibacterial Activity of Neat Chitosan Powder and Flakes. 2017, 22,	23
284	Cu-chitosan nanoparticle boost defense responses and plant growth in maize (Zea mays L.). 2017 , 7, 9754	165
283	Impact of Bioinspired Nanotopography on the Antibacterial and Antibiofilm Efficacy of Chitosan. 2018 , 19, 1340-1346	28
282	Approaches based on passive and active antibacterial coating on titanium to achieve antibacterial activity. 2018 , 106, 2531-2539	33
281	Recent advances on antimicrobial wound dressing: A review. 2018 , 127, 130-141	395
280	Magnetic CoFe 2 O 4 @ melamine based hyper-crosslinked polymer: A multivalent dendronized nanostructure for fast bacteria capturing from real samples. 2018 , 116, 14-21	2
279	The chemo enzymatic functionalization of chitosan zeolite particles provides antioxidant and antimicrobial properties. 2018 , 18, 334-340	14
278	New biobased non-ionic hyperbranched polymers as environmentally friendly antibacterial additives for biopolymers. 2018 , 20, 1238-1249	13
277	Electrochemical behavior of polypyrrole/chitosan composite coating on Ti metal for biomedical applications. 2018 , 189, 126-137	39
276	Single Step Fabrication of Chitosan Nanocrystals Using Penaeus semisulcatus: Potential as New Insecticides, Antimicrobials and Plant Growth Promoters. 2018 , 29, 375-384	13
275	Antimicrobial Properties and Osteogenicity of Vancomycin-Loaded Synthetic Scaffolds Obtained by Supercritical Foaming. 2018 , 10, 3349-3360	26
274	Evaluation of the efficacy of nisin-loaded chitosan nanoparticles against foodborne pathogens in orange juice. 2018 , 55, 1127-1133	20
273	Release and permeation profiles of spray-dried chitosan microparticles containing caffeic acid. 2018 , 26, 410-415	13
272	Evaluation of physico-chemical properties and antimicrobial synergic effect of ceftazidime-modified chitosan. 2018 , 134, 1629-1636	6
271	Characterization and microbiological evaluation of chitosan-alginate microspheres for cefixime vaginal administration. 2018 , 192, 176-183	20
270	Investigation of an elutable N-propylphosphonic acid chitosan derivative composition with a chitosan matrix prepared from carbonic acid solution. 2018 , 179, 196-206	6

269	An inhibitory action of chitosan nanoparticles against pathogenic bacteria and fungi and their potential applications as biocompatible antioxidants. 2018 , 114, 323-327	41
268	Conjugates and nano-delivery of antimicrobial peptides for enhancing therapeutic activity. 2018 , 44, 153-171	24
267	Synthesis of chitosan-alginate microspheres with high antimicrobial and antibiofilm activity against multi-drug resistant microbial pathogens. 2018 , 114, 17-24	38
266	Synthesis and evaluation antibacterial activity of phosphate buffer solution (pH 7.4) - soluble acylated chitosan derivative. 2018 ,	1
265	Photo-Crosslinked Polymeric Matrix with Antimicrobial Functions for Excisional Wound Healing in Mice. 2018 , 8,	4
264	Antifouling and anti-algal effects of chitosan nanocomposite (TiO2/Ag) and pristine (TiO2 and Ag) films on marine microalgae Dunaliella salina. 2018 , 6, 6870-6880	26
263	Eco-Friendly and Facile Preparation of Spherical Chitin Nanoparticles. 2018, 3, 10787-10791	3
262	Assessment of the Quorum Sensing Inhibition Activity of a Non-Toxic Chitosan in an -Acyl Homoserine Lactone (AHL)-Based Biosensor. 2018 , 8,	4
261	Synthesis, characterization and evaluation of reactional parameters on substitution degree of N-hexyl-N-methylene phosphonic chitosan. 2018 , 202, 1-10	6
260	Development of electrospun nanofibers containing chitosan/PEO blend and phenolic compounds with antibacterial activity. 2018 , 117, 800-806	57
259	Chitosan Applications in Food Industry. 2018 , 469-491	9
258	Potential of polymer stabilized nano-liposomes to enhance antimicrobial activity of nisin Z against foodborne pathogens. 2018 , 96, 98-110	40
257	Antibacterial and environmentally friendly chitosan/polyvinyl alcohol blend membranes for air filtration. 2018 , 198, 241-248	73
256	Natural Antimicrobial Materials for Use in Food Packaging. 2018 , 181-233	2
255	Preparation, physicochemical characterization and antimicrobial activities of novel two phenolic chitosan Schiff base derivatives. 2018 , 8, 11416	87
254	A mucoadhesive thermosensitive hydrogel containing erythropoietin as a potential treatment in oral mucositis: in vitro and in vivo studies. 2018 , 8, 1226-1237	13
253	The Multifunctional Role of Chitosan in Horticultural Crops; A Review. 2018 , 23,	87
252	Competitive Biological Activities of Chitosan and Its Derivatives: Antimicrobial, Antioxidant, Anticancer, and Anti-Inflammatory Activities. 2018 , 2018, 1-13	73

251	Chitosan and graphene oxide hybrid nanocomposite film doped with silver nanoparticles efficiently prevents biofouling. 2018 , 452, 487-497	30
250	Synthesis of monodisperse chitosan nanoparticles. 2018 , 83, 355-364	49
249	Vacuum impregnation of chitosan-based edible coating in minimally processed pumpkin. 2018 , 53, 2229-2238	7
248	Influence of the structure of a bio-barrier forming agent on the stimuli-response and antimicrobial activity of a EmartIhon-cytotoxic cotton fabric. 2018 , 25, 6231-6245	4
247	Emerging Nonchemical Potential Antimicrobials for Beverage Preservation. 2019 , 149-178	
246	Enzymatically Hydrolyzed Water-Soluble Chitosan as a Potent Anti-Microbial Agent. 2019 , 27, 551-557	3
245	Novel hybrid chitosan/calcium phosphates microgels for remineralization of demineralized enamel [A model study. 2019 , 119, 14-21	9
244	Effectiveness of eco-absorbent modified chitosan membrane from Pila ampullacea as urban water filter to provide healthy sanitary water in Kediri. 2019 , 308, 012036	
243	Chitosan coatings incorporated with free or nano-encapsulated Paulownia Tomentosa essential oil to improve shelf-life of ready-to-cook pork chops. 2019 , 116, 108580	44
242	Synthesis and Antibacterial Properties of Novel ZnMnO-Chitosan Nanocomposites. 2019 , 9,	11
241	Antimicrobial and antibiofilm potential of bacteriocin loaded nano-vesicles functionalized with rhamnolipids against foodborne pathogens. 2019 , 116, 108583	25
240	Enhanced antibacterial and corrosion resistance properties of Ag substituted hydroxyapatite/functionalized multiwall carbon nanotube nanocomposite coating on 316L stainless steel for biomedical application. 2019 , 59, 104730	34
239	Chitosan Nanoparticle for Loading and Release of Nitrogen, Potassium, and Phosphorus Nutrients. 2019 , 43, 2781-2786	6
238	Effectiveness of chitosan from crab shell as antibiotic for Escherichia coli. 2019 , 305, 012010	
237	Synthesis and characterization of a low solubility edible film based on native cassava starch. 2019 , 128, 290-296	24
236	Biomedical and Nutraceutical Applications of Chitin and Chitosan. 2019 , 319-349	1
235	Enhanced antibacterial activity of PEO-chitosan nanofibers with potential application in burn infection management. 2019 , 135, 1222-1236	53
234	Application of Chitosan-Based Formulations in Controlled Drug Delivery. 2019 , 241-314	1

233	New Materials Based on Cationic Porphyrins Conjugated to Chitosan or Titanium Dioxide: Synthesis, Characterization and Antimicrobial Efficacy. 2019 , 20,	26
232	Preparation of an antibacterial chitosan-coated biochar-nanosilver composite for drinking water purification. 2019 , 219, 290-297	28
231	Natural and Synthetic Materials in Regenerative Medicine: Progress Over the Past Five Years: Hydrogels: An Insight. 2019 , 113-113	О
230	Pharmacotherapy and nanotechnology. 2019 , 1-21	
229	Metal oxide nanoparticles in removing residual pharmaceutical products and pathogens from water and wastewater. 2019 , 561-589	3
228	Possibilities and perspectives of chitosan scaffolds and composites for tissue engineering. 2019 , 167-203	4
227	Acids 'generally recognized as safe' affect morphology and biocompatibility of electrospun chitosan/polyethylene oxide nanofibers. 2019 , 215, 253-262	20
226	Sustained Release from Injectable Composite Gels Loaded with Silver Nanowires Designed to Combat Bacterial Resistance in Bone Regeneration Applications. 2019 , 11,	16
225	Inhibitory Effect of Coenzyme Q0 on the Growth of. 2019 , 16, 317-324	6
224	Self-Rolling Refillable Tubular Enzyme Containers Made of Recombinant Spider Silk and Chitosan. 2019 , 11, 15290-15297	7
223	Chitosan & Conductive PANI/Chitosan Composite Nanofibers - Evaluation of Antibacterial Properties. 2019 , 4, 6-20	10
222	Novel nanocomposite derived from ZnO/CdS QDs embedded crosslinked chitosan: An efficient photocatalyst and effective antibacterial agent. 2019 , 369, 398-407	41
221	Chitosan-Based Bionanocomposite Films Prepared by Emulsion Technique for Food Preservation. 2019 , 12,	35
220	Protein-Based Active Film as Antimicrobial Food Packaging: A Review. 2019 ,	3
219	Synthesis and antibacterial activity of colloidal selenium nanoparticles in chitosan solution: a new antibacterial agent. 2019 , 6, 1250h3	15
218	Encapsulation of C. odorata extracts for antimicrobial activity. 2019 , 1372, 012046	1
217	Effect of natural ingredients addition as antimicrobial agents in Dioscoreahispida Dennst starch-based biofilm. 2019 , 364, 012006	1
216	Chitosan as A Preservative for Fruits and Vegetables: A Review on Chemistry and Antimicrobial Properties. 2019 , 4, 11-21	106

(2020-2019)

215	Chitosan from marine-derived Penicillum spinulosum MH2 cell wall with special emphasis on its antimicrobial and antifouling properties. 2019 , 45, 359-365	4
214	Chitosan as a Wound Dressing Starting Material: Antimicrobial Properties and Mode of Action. 2019 , 20,	185
213	Compatibility of Chitosan in Polymer Blends by Chemical Modification of Bio-based Polyesters. 2019 , 11,	4
212	Wettability of DPPC Monolayers Deposited from the Titanium Dioxide¶hitosan⊞yaluronic Acid Subphases on Glass. 2019 , 3, 15	6
211	Obtaining and Characterization of the PLA/Chitosan Foams with Antimicrobial Properties Achieved by the Emulsification Combined with the Dissolution of Chitosan by CO Saturation. 2019 , 24,	10
210	Ga and Ce ion-doped phosphate glass fibres with antibacterial properties and their composite for wound healing applications. 2019 , 7, 6981-6993	23
209	Active packaging based on cellulose-chitosan-Ag/TiO2 nanocomposite for storage of clarified butter. 2019 , 26, 1923-1946	18
208	Chitosan/poly(lactic acid) blends as drug delivery systems. 2019 , 68, 99-106	7
207	Microwave assisted in situ synthesis of gum Salai guggal based silver nanocomposites-investigation of anti-bacterial properties. 2019 , 26, 991-1011	14
206	Gradient multifunctional biopolymer thin film assemblies synthesized by combinatorial MAPLE. 2019 , 466, 628-636	7
205	Synthesis of novel chitosan-PVC conjugates encompassing Ag nanoparticles as antibacterial polymers for biomedical applications. 2019 , 121, 707-717	37
204	Preparation, structural and spectroscopic characterization of chitosan membranes containing allantoin. 2020 , 1199, 126968	11
203	Coating with chitosan-based edible films for mechanical/biological protection of strawberries. 2020 , 151, 1004-1011	40
202	Poly(vinyl alcohol)/cationic tannin blend films with antioxidant and antimicrobial activities. 2020 , 107, 110357	19
201	Preparation of graphene-embedded hydroxypropyl cellulose/chitosan/polyethylene oxide nanofiber membranes as wound dressings with enhanced antibacterial properties. 2020 , 27, 2651-2667	19
200	Development and Characterization of Salvia macrosiphon/Chitosan Edible Films. 2020 , 8, 1487-1496	19
199	A simultaneous grafting/vinyl polymerization process generates a polycationic surface for enhanced antibacterial activity of bacterial cellulose. 2020 , 143, 224-234	12
198	Physicochemical properties and microbial control of chestnuts (Castanea sativa) coated with whey protein isolate, chitosan and alginate during storage. 2020 , 263, 109105	8

197	Synthesis of alpha-tocopherol encapsulated chitosan nano-assemblies and their impregnation on cellulosic fabric for potential antibacterial and antioxidant cosmetotextiles. 2020 , 27, 1717-1731	8
196	Preparation of novel chitosan derivatives and applications in functional finishing of textiles. 2020 , 153, 971-976	10
195	Quaternary ammonium salts of chitosan. A critical overview on the synthesis and properties generated by quaternization. 2020 , 139, 110016	25
194	Antibacterial Activity of Honey/Chitosan Nanofibers Loaded with Capsaicin and Gold Nanoparticles for Wound Dressing. 2020 , 25,	33
193	Design of ellagic acid-loaded chitosan/zein films for wound bandaging. 2020 , 59, 101903	7
192	Effects of chitosan on the physicochemical properties, in vitro starch digestibility, antimicrobial potentials, and antioxidant activities of purple highland barley noodles. 2020 , 132, 109802	8
191	Controlled release and enhanced biological activity of chitosan-fabricated carbenoxolone nanoparticles. 2020 , 164, 45-52	8
190	Fabrication of chitosan/polyvinylpyrrolidone hydrogel scaffolds containing PLGA microparticles loaded with dexamethasone for biomedical applications. 2020 , 164, 356-370	37
189	Barrier properties, antimicrobial and antifungal activities of chitin and chitosan-based IPNs, gels, blends, composites, and nanocomposites. 2020 , 175-227	3
188	Fluorinated Quaternary Chitosan Derivatives: Synthesis, Characterization, Antibacterial Activity, and Killing Kinetics. 2020 , 5, 29657-29666	5
187	Photoinduced synthesis of antibacterial hydrogel from aqueous photoinitiating system. 2020 , 138, 109936	3
186	Development of shrimp-based chitosan film and assessment of its mechanical, barrier and antimicrobial properties. 2020 , 170, 04003	
185	Synergy of Biodegradable Polymer Coatings with Quaternary Ammonium Salts Mediating Barrier Function Against Bacterial Contamination and Dehydration of Eggs. 2020 , 13, 2065-2081	4
184	Superior antibacterial activity of reduced graphene oxide upon decoration with iron oxide nanorods. 2020 , 8, 104424	4
183	Hydroxyapatite Nanoparticles Fortified Xanthan Gum-Chitosan Based Polyelectrolyte Complex Scaffolds for Supporting the Osteo-Friendly Environment 2020 , 3, 7133-7146	6
182	Exploring Endolysin-Loaded Alginate-Chitosan Nanoparticles as Future Remedy for Staphylococcal Infections. 2020 , 21, 233	12
181	Review on Carbon Nanotube Varieties for Healthcare Application: Effect of Preparation Methods and Mechanism Insight. 2020 , 8, 1654	6
180	Structural and Physicochemical Characterization of Chitosan Obtained by UAE and Its Effect on the Growth Inhibition of Pythium ultimum. 2020 , 10, 464	6

(2020-2020)

179	Nanomaterials Platform for Skin Tissue Regeneration Applications Following Burn Wounds. 2020 , 12,	12
178	Antibacterial Cellulose Nanopapers via Aminosilane Grafting in Supercritical Carbon Dioxide 2020 , 3, 8402-8413	4
177	NaAlg-PVA-g-AAm/ZnO nanocomposite hydrogel as material of wound dressing: synthesis and characterization. 2020 , 763, 012030	1
176	Amelioration of Physical Properties and Printability of Paper Coated with N-methylated Chitosan. 2020 , 10, 9936	O
175	Chitosan-triggered immunity to Fusarium in chickpea is associated with changes in the plant extracellular matrix architecture, stomatal closure and remodeling of the plant metabolome and proteome. 2020 , 103, 561-583	13
174	Nylon-6/chitosan core/shell antimicrobial nanofibers for the prevention of mesh-associated surgical site infection. 2020 , 18, 51	25
173	Influence of TiO2/Ag particles on the properties of chitosan film. 2020 , 11, 015017	9
172	Effect of N-terminal modification on the antimicrobial activity of nisin. 2020 , 114, 107227	3
171	Sustainable drug release from highly porous and architecturally engineered composite scaffolds prepared by 3D printing. 2020 , 108, 1426-1438	10
170	Silver-loaded microspheres reinforced chitosan scaffolds for skin tissue engineering. 2020 , 134, 109861	14
169	Chitosan and Natural Rubber Latex Biocomposite Prepared by Incorporating Negatively Charged Chitosan Dispersion. 2020 , 25,	4
168	Current state of chitin purification and chitosan production from insects. 2020 , 95, 2775-2795	60
167	Teicoplanin-loaded chitosan-PEO nanofibers for local antibiotic delivery and wound healing. 2020 , 162, 645-656	42
166	Encapsulation of Turmeric Crude Extracted in Chitosan Hydrogel Beads for Antimicrobial in Animal Health Care Applications. 2020 , 990, 111-116	
165	Surface functionalization of porous chitosan microsphere with silver nanoparticle and carbon dot. 2020 , 7, 015031	O
164	Antibacterial biohybrid nanofibers for wound dressings. 2020 , 107, 25-49	203
163	A nanostructured paper-based device for phenylalanine neonatal screening by LED-induced fluorescence. 2020 , 12, 1624-1630	6
162	Nerve guidance conduit design based on self-rolling tubes. 2020 , 5, 100042	18

161	Eco-friendly Packaging Composite Fabrics based on in situ synthesized Silver nanoparticles (AgNPs) & treatment with Chitosan and/or Date seed extract. 2020 , 22, 100425	14
160	Chitin/chitosan derivatives and their interactions with microorganisms: a comprehensive review and future perspectives. 2020 , 40, 365-379	50
159	Eradiation induced synthesis of antibacterial silver nanocomposite scaffolds derived from natural gum Boswellia serrata. 2020 , 56, 101550	13
158	Preparation of Silver/Chitosan Nanofluids Using Selected Plant Extracts: Characterization and Antimicrobial Studies Against Gram-Positive and Gram-Negative Bacteria. 2020 , 13,	6
157	assessment of the bioactivities of sericin protein extracted from a bacterial silk-like biopolymer 2020 , 10, 5098-5107	13
156	Selective Killing of Shiga Toxin-Producing with Antibody-Conjugated Chitosan Nanoparticles in the Gastrointestinal Tract. 2020 , 12, 18332-18341	4
155	Dual-crosslinked nanocomposite hydrogels based on quaternized chitosan and clindamycin-loaded hyperbranched nanoparticles for potential antibacterial applications. 2020 , 155, 153-162	11
154	The effect of gold and silver nanoparticles, chitosan and their combinations on bacterial biofilms of food-borne pathogens. 2020 , 36, 222-233	6
153	Tailored PCL Scaffolds as Skin Substitutes Using Sacrificial PVP Fibers and Collagen/Chitosan Blends. 2020 , 21,	19
152	Effect of chitosan-whey protein isolated coatings incorporated with tarragon Artemisia dracunculus essential oil on the quality of Scomberoides commersonnianus fillets at refrigerated condition. 2020 , 155, 766-771	23
151	O-Carboxymethylated chitosan; A promising tool with in-vivo anti-inflammatory and analgesic properties in albino rats. 2020 , 156, 531-536	14
150	Drug-Free Cyclodextrin-Based Nanosponges for Antimicrobial Activity. 2021 , 16, 258-268	11
149	Implementation and characterization of calcium-free gelling oral reconstituted suspension for potential overweight treatment. 2021 , 47, 36-50	2
148	Chitosan-Based Edible Films Produced from Crab-U\[\] \[\] (Ucides cordatus) Waste: Physicochemical, Mechanical and Antimicrobial Properties. 2021 , 29, 694-706	3
147	A review on factors affecting chitosan nanoparticles formation. 1011, 012027	0
146	In vivo wound healing efficiency of curcumin-incorporated pectin-chitosan biodegradable films.	2
145	Development of bacterial cellulose/chitosan films: structural, physicochemical and antimicrobial properties. 2021 , 28, 1	2
144	Recent advancements in applications of chitosan-based biomaterials for skin tissue engineering. 2021 , 6, 11-25	54

(2021-2021)

143	Progresses in Food Packaging, Food Quality, and Safety-Controlled-Release Antioxidant and/or Antimicrobial Packaging. 2021 , 26,	24
142	Development of Antibacterial, Antioxidant, and UV-Barrier Chitosan Film Incorporated with Piper betle Linn Oil as Active Biodegradable Packaging Material. 2021 , 11, 351	O
141	Antimicrobial Actions and Applications of Chitosan. 2021 , 13,	73
140	Functional foods and bioactive ingredients harnessed from the ocean: current status and future perspectives. 2021 , 1-30	5
139	Photoactive and antioxidant nanochitosan dots/biocellulose hydrogels for wound healing treatment. 2021 , 122, 111925	7
138	Chitosan-Based Oral Drug Delivery System for Peptide, Protein and Vaccine Delivery.	
137	Antibacterial Activity of Some Molecules Added to Rabbit Semen Extender as Alternative to Antibiotics. 2021 , 11,	2
136	Plasma-assisted antimicrobial finishing of textiles: A review. 2021 ,	9
135	Antimicrobial activity and physical properties of starch/chitosan film incorporated with lemongrass essential oil and its application. 2021 , 141, 110934	20
134	Bifunctional sharkskin mimicked chitosan/graphene oxide membranes: Reduced biofilm formation and improved cytocompatibility. 2021 , 544, 148828	11
133	Polysaccharides as Edible Films and Coatings: Characteristics and Influence on Fruit and Vegetable Quality Review. 2021 , 11, 813	30
132	Antimicrobial Effect of Chitosan Films on Food Spoilage Bacteria. 2021 , 22,	5
131	Corrosion mitigation performance of disodium EDTA functionalized chitosan biomacromolecule - Experimental and theoretical approach. 2021 , 178, 477-491	7
130	Chitosomes-In-Chitosan Hydrogel for Acute Skin Injuries: Prevention and Infection Control. 2021 , 19,	4
129	Chitosan/Gelatin/Silver Nanoparticles Composites Films for Biodegradable Food Packaging Applications. 2021 , 13,	15
128	Antimicrobial properties of chitosan and galactomannan composite coatings and physical properties of films made thereof. 2021 , 3, 100028	2
127	Restoring Endogenous Repair Mechanisms to Heal Chronic Wounds with a Multifunctional Wound Dressing. 2021 , 18, 3171-3180	5
126	Quaternary ammonium N,N,N-trimethyl chitosan derivative and povidone-iodine complex as a potent antiseptic with enhanced wound healing property. 2021 , 182, 1713-1723	5

125	Direct synthesis of substrate-independent nanoparticles for antibacterial application. 2021, 8, 075402	Ο
124	Synthesis of New Chitosan from an Endemic Chilean Crayfish Exoskeleton (): Physicochemical and Biological Properties. 2021 , 13,	1
123	Preparation of chitosan from waste shrimp shells fermented with Paenibacillus jamilae BAT1. 2021 , 183, 1191-1199	4
122	Effect of chitosan coating containing extract on shelf life of chicken fillets during chilled storage. 2021 , 9, 4517-4528	3
121	Saccharomyces Cerevisiae as an Untapped Source of Fungal Chitosan for Antimicrobial Action. 2021 , 193, 3765-3786	3
120	Polyquaternium enhances the colloidal stability of chitosan-capped platinum nanoparticles and their antibacterial activity. 2021 , 32,	1
119	Recycled Porcine Bone Powder as Filler in Thermoplastic Composite Materials Enriched with Chitosan for a Bone Scaffold Application. 2021 , 13,	0
118	Synthesis, characterization, and evaluation of antibacterial activity of transition metal oxyde nanoparticles. 2021 , 32, 101	3
117	Synthesis of chitosan-lysozyme microspheres, physicochemical characterization, enzymatic and antimicrobial activity. 2021 , 185, 572-581	9
116	The impact of chitooligosaccharides and their derivatives on the in vitro and in vivo antitumor activity: A comprehensive review. 2021 , 266, 118132	17
115	Application of biopreservatives in meat preservation: a review. 2021 , 56, 6124	0
114	Recent advances of emerging green chitosan-based biomaterials with potential biomedical applications: A review. 2021 , 506, 108368	20
113	Electrospun composite membrane based on polyarylene sulfide sulfone/Ag/ZnO nanofibers for antibacterial effective PM2.5 filtration. 51693	2
112	Natural Compounds With Antimicrobial and Antiviral Effect and Nanocarriers Used for Their Transportation. 2021 , 12, 723233	13
111	In Vitro Study of Cricket Chitosan's Potential as a Prebiotic and a Promoter of Probiotic Microorganisms to Control Pathogenic Bacteria in the Human Gut. 2021 , 10,	5
110	Synthesis of C6-amino agarose and evaluation of its antibacterial activity. 2021 , 507, 108387	О
109	Physicochemical Characteristics of Chitosan-TiO2 Biomaterial. 2. Wettability and Biocompatibility. 2021 , 127546	3
108	Facile synthesis and characterization of chitosan/zinc oxide nanocomposite for enhanced antibacterial and photocatalytic activity. 2021 , 190, 259-269	8

(2020-2021)

107	Pell dulas mucoadhesivas de quitosano para la liberacil di sostenida de nistatina en la cavidad bucal. 2021 , 4, 1-18	1
106	Thermo-/pH-responsive chitosan-cellulose nanocrystals based hydrogel with tunable mechanical properties for tissue regeneration applications. 2020 , 12, 100681	14
105	Customised structural, optical and antibacterial characteristics of cinnamon nanoclusters produced inside organic solvent using 532 nm Q-switched Nd:YAG-pulse laser ablation. 2020 , 130, 106331	4
104	Synthesis and Antimicrobial Activity of N-(6-Carboxyl Cyclohex-3-ene Carbonyl) Chitosan with Different Degrees of Substitution. 2016 , 2016, 1-10	4
103	Synergistic Antioxidant and Antibacterial Activity of Curcumin-C3 Encapsulated Chitosan Nanoparticles. 2020 , 26, 5021-5029	8
102	Contributions of photochemistry to bio-based antibacterial polymer materials. 2021 , 9, 9624-9641	O
101	Chitosan and its Broad Applications: A Brief Review. 2021 , 12, em00779	3
100	Chitosan-PVC conjugates/metal nanoparticles for biomedical applications.	1
99	Iminoboronate-chitooligosaccharides hydrogels with strong antimicrobial activity for biomedical applications. 2022 , 276, 118727	4
98	Silver/Chitosan/Ascorbic Acid Nanocomposites Attenuates Bacterial Sepsis in Cecal Ligation and Puncture Rat Model. 2021 , 17, 549-561	
97	AVALIA Î Î D IN VITRO DA A Î Î D DA QUITOSANA E DE SEU DERIVADO QUATERNIZADO NA ÎNIBI Î D DO CRESCIMENTO DO FUNGO PENICILLIUM EXPANSUM. 2016 , 10, 116-128	1
96	STRUCTURES AND PROPERTIES OF BIOPOLYMER CHITOSAN - A FIRST PRINCIPLE STUDY. 2019 , 7, 16	
95	Chitosan-Based Systems for Controlled Delivery of Antimicrobial Peptides for Biomedical Application. 2019 , 415-455	1
94	Preparation of anti-bacterial biocomposite nanofibers fabricated by electrospinning method. 125-142	
93	Chitosan Enhances the Anti-Biofilm Activity of Biodentine against an Interkingdom Biofilm Model. 2021 , 10,	O
92	Soy protein/chitosan-based microsphere as Stable Biocompatible Vehicles of Oleanolic Acid: An Emerging Alternative Enabling the Quality Maintenance of Minimally Processed Produce. 2022 , 124, 107325	O
91	Tailor-made polysaccharide-based hydrogels for biomedical applications. 2020 , 101-132	
90	Effect of TiO2/Ag Nanocomposite Loading on the Optical Properties of Chitosan Film. 2020 , 301-306	

89	Silver Composites as Antimicrobial Materials. 2021 , 127-147	1
88	Chitosan Conjugate of Biogenic Silver Nanoparticles. 273	
87	Electrospun Antibacterial Nanomaterials for Wound Dressings Applications 2021, 11,	8
86	An improved extraction and purification method for obtaining high-quality chitin and chitosan from blue swimmer () crab shell waste 2021 , 30, 1645-1655	O
85	Edible Coatings and Films from Agricultural and Marine Food Wastes. 2022, 543-556	0
84	Self-crosslinked chitosan/Ecarrageenan-based biomimetic membranes to combat diabetic burn wound infections 2021 , 197, 157-157	4
83	Past and Current Progress in the Development of Antiviral/Antimicrobial Polymer Coating towards COVID-19 Prevention: A Review. 2021 , 13,	2
82	Chitosan Nanoparticle-Based System: A New Insight into the Promising Controlled Release System for Lung Cancer Treatment 2022 , 27,	10
81	Quaternized Amphiphilic Block Copolymers as Antimicrobial Agents 2022, 14,	0
80	Antimicrobial uses of chitosan. 2022 , 13-36	
79	The role of aldehyde-functionalized crosslinkers on the property of chitosan hydrogels 2022, e2100477	1
78	Nanotechnology in microbial food safety. 2022 , 253-304	
77	Antimicrobial Properties of Bionanocomposites. 2022 , 87-102	
76	Chitosan and its application in dental implantology 2022,	1
75	Chitooligosaccharide Conjugates Prepared Using Several Phenolic Compounds via Ascorbic Acid/HO Free Radical Grafting: Characteristics, Antioxidant, Antidiabetic, and Antimicrobial Activities 2022 , 11,	2
74	Chitosan hydrogels chemically crosslinked with L-glutamic acid and their potential use in drug delivery. 1	0
73	Enhancing the Mechanical Behaviour and Antibacterial Activity of Bioepoxy Using Hybrid Nanoparticles for Dental Applications 2022 , 2022, 2124070	2
7 ²	Preparation of antimicrobial activated carbon fiber for adsorption. 1	2

71	Chitooligosaccharides from shrimp shell chitosan prepared using H 2 O 2 or ascorbic acid/H 2 O 2 redox pair hydrolysis: characteristics, antioxidant and antimicrobial activities.	О
70	The Chitosan-Based System with Extract for the Local Treatment of Vaginal Infections 2022, 14,	Ο
69	Durably Antibacterial Cotton Fabric Prepared by a Combination of Betaine and Carboxymethyl Chitosan. 2022 , 23, 617-625	1
68	Functionalized chitosan as a promising platform for cancer immunotherapy: A review 2022 , 290, 119452	1
67	Effect of Chitosan and Aloe Vera Application on Oxidative Stability and Nutritional Value of Strawberry Fruit (Fragaria ananassa) cv. Camarosa. 2021 , 7, 189-196	
66	Lipid Nanocarriers-Loaded Nanocomposite as a Suitable Platform to Release Antibacterial and Antioxidant Agents for Immediate Dental Implant Placement Restorative Treatment 2021 , 13,	1
65	Synthesis, characterization, and molecular docking analysis of Chitosan-gr-Polysulphanilic acid as antimicrobial water-soluble polymers. 1-14	0
64	Enhanced synergic effect of the antibacterial activity and hydrophobicity of polydimethylsiloxane polymer loaded with titanium dioxide nanoparticles and ciprofloxacin. 1	
63	Synthesis and characterization of copper-chitosan based nanofungicide and its induced defense responses in Fusarium wilt of banana. 1-9	1
62	Inactivation of SARS-CoV-2 by a chitosan/EAgWO composite generated by femtosecond laser irradiation 2022 , 12, 8118	O
61	Dendrobium officinale Enzyme Changing the Structure and Behaviors of Chitosan/Epoly(glutamic acid) Hydrogel for Potential Skin Care. 2022 , 14, 2070	О
60	Sources, production and commercial applications of fungal chitosan: A review. 2022 , 7, 85-98	32
59	Chitosan grafted with maleic anhydride and ethylenediamine: Preparation, characterization, computational study, antibacterial and cytotoxic properties. 2022 , 287, 126301	0
58	Water detoxification in terms of lead (II) and Bacillus subtilis bacteria using poly thiourea resin fabricated on magnetic multiwall carbon nanotubes substrate.	O
57	Evaluation of Modified Organic Cotton Fibers Based Absorbent Article Applicable to Feminine Hygiene. 1-15	1
56	Surface modification of additively manufactured metallic biomaterials with active antipathogenic properties. 2022 , 100001	1
55	Antimicrobial activity of silver composites in the presence of chloride ions in aqueous media.	
54	Fabrication of activated carbon fiber functionalized corellhell silver nanoparticles based in situ and low-cost technology for wound dressings with an enhanced antimicrobial activity and cell viability. 2022 , 360, 119561	Ο

53	Exploration on in vitro bioactivity, antibacterial activity and corrosion behavior of Strontium doped Hydroxyapatite reinforced chitosan-polypyrrole/TNT for bone regeneration. 2022 , 142, 109621	O
52	Soil microbes as biopolymers to enhance soil mechanical properties. 2022 , 47-76	
51	Free-Standing Multilayer Films as Growth Factor Reservoirs for Future Wound Dressing Applications.	
50	Nanoparticles of Lignins and Saccharides from Fishery Wastes as Sustainable UV-Shielding, Antioxidant, and Antimicrobial Biofillers.	1
49	Hydrothermal Synthesis of Chitosan and Tea Tree Oil on Plain and Satin Weave Cotton Fabrics. 2022 , 15, 5034	
48	Preparation and Characterization of Chitosan/TiO2 Composite Membranes as Adsorbent Materials for Water Purification. 2022 , 12, 804	4
47	Nematicidal effect of chitosan on Meloidogyne incognita in vitro and on tomato in a pot experiment. 410-416	
46	Preparation and applications of biochar based nanocomposite: A review. 2022 , 167, 105691	O
45	Comprehensive review of natural based hydrogels as an upcoming trend for food packing. 2023 , 135, 108124	1
44	Biocompatible non-leachable antimicrobial polymers with a nonionic hyperbranched backbone and phenolic terminal units.	O
43	Preparation and Application of Chitosan Derivatives. 2022, 103-155	O
42	Application of Chitosan in the Medical and Biomedical Field. 2022 , 291-321	O
41	Chitosan nanofibres and polypropylene meltblown substrate based multilayer respiratory filter for byssinosis prevention. 2022 , 52, 152808372211111	О
40	Potential Medical Applications of Chitooligosaccharides. 2022 , 14, 3558	O
39	Synthesis and Characterization of Novel Schiff Bases Derived from 2-Butyl-4-chloro Imidazole for the Enhanced Antimicrobial Property.	О
38	Chitosan/Poly (Ethylene Glycol)/ZnO Bionanocomposite for Wound Healing Application. 2023 , 31-65	1
37	Nanocomposite films as electrochemical sensors for detection of catalase activity. 9,	О
36	Antiulcerogenic and Antibacterial Effects of Chitosan Derivatives on Experimental Gastric Ulcers in Rats. 2022 , 2022, 1-9	1

35	Numerical and Experimental Assessment of Mechanical Properties of Biobased Epoxy Reinforced by Flax Fibres and Seashell Nanoparticles for Prosthetic Socket. 2022 , 2022, 1-11	1
34	Eco-design and tunable structure-properties of chitosan-epoxy-glycerol-silicate biohybrids using integrated crosslinking. 2022 , 120187	Ο
33	Preparation, Characterization, and Properties of Chitosan-Based Semi-Interpenetrating Polymer Networks and Poly(2-hydroxyethyl methacrylate) Structure. 2200282	1
32	Evaluation of graphene oxide, chitosan and their complex as antibacterial agents and anticancer apoptotic effect on HeLa cell line. 13,	1
31	Synthesis of bee venom loaded chitosan nanoparticles for anti-MERS-COV and multi-drug resistance bacteria. 2022 ,	2
30	Lactoferrin-Chitosan-TPP Nanoparticles: Antibacterial Action and Extension of Strawberry Shelf-Life.	O
29	Chitosan Is the Ideal Resource for Plant Disease Management under Sustainable Agriculture.	О
28	Free-standing multilayer films as growth factor reservoirs for future wound dressing applications. 2022 , 142, 213166	2
27	The synergistic effect of Capsicum aqueous extract and chitosan against multidrug-resistant bacteria. 2022 , 102438	О
26	Curcumin coated 3D biocomposite scaffolds based on chitosan and cellulose for diabetic wound healing. 2022 , 8, e11442	O
25	ChitosanBodium Caseinate Composite Edible Film Incorporated with Probiotic Limosilactobacillus fermentum: Physical Properties, Viability, and Antibacterial Properties. 2022 , 11, 3583	О
24	Review on the Importance of Chitosan in Different Pharmaceutical Applications. 2022, 06,	O
23	Fabrication of crosslinked piperazine polymer coating: Synthesis, characterization and its activity towards microorganisms. 2023 , 1274, 134522	О
22	IN SITU GEL FORMULATION OF POTASSIUM NITRATE: A NOVEL APPROACH TO TREAT DENTIN HYPERSENSITIVITY. 83-90	O
21	Antimicrobial Property of Cassava Starch/Chitosan Film Incorporated with Lemongrass Essential Oil and Its Shelf Life. 2022 , 16, 2891-2900	О
20	Long-Term Refrigerated Storage of Beef Using an Active Edible Film Reinforced with Mesoporous Silica Nanoparticles Containing Oregano Essential Oil (Lippia graveolens Kunth). 2023 , 24, 92	O
19	Green Synthesis and Characterization of Natural Magnetic Particles/Chitosan Composite Material Impregnated with Copper Nanoparticles. 339, 19-27	О
18	Antimicrobial Efficiency of Chitosan and Its Methylated Derivative against Lentilactobacillus parabuchneri Biofilms. 2022 , 27, 8647	2

17	Vibrio parahaemolyticus Isolates from Asian Green Mussel: Molecular Characteristics, Virulence and Their Inhibition by Chitooligosaccharide-Tea Polyphenol Conjugates. 2022 , 11, 4048	O
16	Temperature Induced Gelation and Antimicrobial Properties of Pluronic F127 Based Systems. 2023 , 15, 355	O
15	Metal mediated high performance antimicrobial hydrogel films for wound infection management: Zn, Cu, and Mg versus Ag and Au. 2023 , 127365	0
14	Chitosan Edible Films and Coatings with Added Bioactive Compounds: Antibacterial and Antioxidant Properties and Their Application to Food Products: A Review. 2023 , 15, 396	O
13	Chitosan modified with bio-extract as an antibacterial coating with UV filtering feature. 2023, 230, 123145	O
12	Antimicrobial Compounds in Food Packaging. 2023 , 24, 2457	O
11	Efficient Synergistic Antibacterial Activity of EMSH Using Chitosan-Based Versatile Nanoconjugates. 2023 , 8, 12865-12877	О
10	Design and application of chitosan-CuO nanocomposites synthesized via novel hybrid ionic gelation-ultrasonication methods for water disinfection. 2023 , 52, 103556	O
9	Binding selectivity of N-alkylaminated modified chitosan nanoparticles produce a synergistic antibacterial effect against gram-negative strains. 2023 , 186, 105567	О
8	Chitosan-poly(lactide-co-glycolide)/poloxamer mixed micelles as a mucoadhesive thermo-responsive moxifloxacin eye drop to improve treatment efficacy in bacterial keratitis. 2023 , 312, 120822	O
7	Multifunctional antibacterial chitosan-based hydrogel coatings on Ti6Al4V biomaterial for biomedical implant applications. 2023 , 231, 123328	1
6	Application of functionalized chitosan in food: A review. 2023 , 235, 123716	O
5	Biofunctionalization and Applications of Polymeric Nanofibers in Tissue Engineering and Regenerative Medicine. 2023 , 15, 1202	О
4	Gamma-rays synthesis, characterization, electrical conductivity, and antimicrobial activity of polyvinylpyrrolidone/chitosan/silver nanoparticles composite films. 2022 , 61, 888-908	O
3	Chitosan as an antimicrobial agent to increase shelf life of foods. 2023 , 155-191	О
2	New Smart Bioactive and Biomimetic Chitosan-Based Hydrogels for Wounds Care Management. 2023 , 15, 975	O
1	Delivery of antibacterial agents for wound healing applications using polysaccharide-based scaffolds. 2023 , 84, 104516	0