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Recent development of chitosan-based polyelectrolyte complexes with natural polysaccharides for drug delivery

DOI: 10.1016/j.ijbiomac.2013.12.017 International Journal of Biological Macromolecules, 2014, 64, 353-67.

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#	Paper	IF	Citations
566	A review of bioactive release from nerve conduits as a neurotherapeutic strategy for neuronal growth in peripheral nerve injury. 2014 , 2014, 132350		36
565	Electric stimulus response of chitosan microbeads embedded with magnetic nanoparticles for controlled drug delivery. 2014 ,		2
564	Investigation of electrical stimulus on chitosan film based DDS. 2014 , 2014, 1424-7		
563	Design of chitosan and its water soluble derivatives-based drug carriers with polyelectrolyte complexes. <i>Marine Drugs</i> , 2014 , 12, 6236-53	6	78
562	Development and characterization of hydrogels based on natural polysaccharides: policaju and chitosan. 2014 , 42, 219-26		26
561	Comparison of chitosan, alginate and chitosan/alginate nanoparticles with respect to their size, stability, toxicity and transfection. 2014 , 4, 372-377		35
560	Novel co-axial prilling technique for the development of core-shell particles as delayed drug delivery systems. 2014 , 87, 541-7		29
559	Development of a biopolymer nanoparticle-based method of oral toxicity testing in aquatic invertebrates. 2014 , 104, 226-30		5
558	Molecularly imprinted layer-coated hollow polysaccharide microcapsules toward gate-controlled release of water-soluble drugs. 2014 , 4, 26063		22
557	Advances in self-assembled chitosan nanomaterials for drug delivery. 2014 , 32, 1301-1316		222
556	Insights into the mechanisms of chitosan-anionic polymers-based matrix tablets for extended drug release. 2014 , 476, 253-65		51
555	Zein-based micro- and nano-particles for drug and nutrient delivery: A review. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	157
554	Chemical functionalization of bone implants with nanoparticle-stabilized chitosan and methotrexate for inhibiting both osteoclastoma formation and bacterial infection. 2014 , 2, 5952-5961		23
553	Chitosan cross-linked docetaxel loaded EGF receptor targeted nanoparticles for lung cancer cells. <i>International Journal of Biological Macromolecules</i> , 2014 , 69, 532-41	7.9	37
552	Internalized chitosan nanoparticles persist for long time in cultured cells. 2015 , 59, 2492		27
551	Chitosan-tripolyphosphate nanoparticles as Arrabidaea chica standardized extract carrier: synthesis, characterization, biocompatibility, and antiulcerogenic activity. 2015 , 10, 3897-909		69
550	Ex vivo skin permeation and retention studies on chitosan-ibuprofen-gellan ternary nanogel prepared by in situ ionic gelation techniquea tool for controlled transdermal delivery of ibuprofen. 2015 , 490, 112-30		73

(2015-2015)

549	Comparative evaluation of polymeric and waxy microspheres for combined colon delivery of ascorbic acid and ketoprofen. 2015 , 485, 365-73		26
548	Evaluation of the stability of pea and canola protein-based hydrogels in simulated gastrointestinal fluids. 2015 , 165, 52-59		14
547	Preparation and characterization of alginate-hyaluronic acid-chitosan based composite gel beads. 2015 , 30, 1297-1303		8
546	Environment induced self-aggregation behavior of Etarrageenan/lysozyme complex. 2015 , 6, 75-82		5
545	DNA Polyplexes as Combinatory Drug Carriers of Doxorubicin and Cisplatin: An in Vitro Study. 2015 , 12, 2845-57		18
544	Self-assembled chitosan/rose bengal derivative nanoparticles for targeted sonodynamic therapy: preparation and tumor accumulation. 2015 , 5, 17915-17923		15
543	Cationic curdlan: Synthesis, characterization and application of quaternary ammonium salts of curdlan. <i>Carbohydrate Polymers</i> , 2015 , 123, 396-405	10.3	29
542	Biological safety evaluation of the modified urinary catheter. 2015 , 49, 274-280		7
541	Development of docetaxel nanocapsules for improving in vitro cytotoxicity and cellular uptake in MCF-7 cells. 2015 , 41, 1759-68		16
540	Polymeric micelles in mucosal drug delivery: Challenges towards clinical translation. 2015 , 33, 1380-92		100
539	Solid lipid nanoparticles for oral drug delivery: chitosan coating improves stability, controlled delivery, mucoadhesion and cellular uptake. <i>Carbohydrate Polymers</i> , 2015 , 122, 221-9	10.3	227
538	Formulation of essential oil-loaded chitosan-alginate nanocapsules. 2015 , 23, 560-568		128
537	Chitosan: Gels and Interfacial Properties. 2015 , 7, 552-579		171
536	Review on biomedical and bioengineering applications of cellulose sulfate. <i>Carbohydrate Polymers</i> , 2015 , 132, 311-22	10.3	45
535	Influence of collagen addition on the thermal and morphological properties of chitosan/xanthan hydrogels. <i>International Journal of Biological Macromolecules</i> , 2015 , 80, 225-30	7.9	24
534	Casein/pectin nanocomplexes as potential oral delivery vehicles. 2015 , 486, 59-68		134
533	Development and characterization of chitosan/hyaluronan film for transdermal delivery of thiocolchicoside. <i>Carbohydrate Polymers</i> , 2015 , 130, 32-40	10.3	43
532	Fabrication of acrylic acid grafted guar gum-multiwalled carbon nanotube hydrophobic membranes for transdermal drug delivery. 2015 , 5, 41736-41744		16

531	Investigation of Moisture Sorption, Permeability, Cytotoxicity and Drug Release Behavior of Carrageenan/Poly Vinyl Alcohol Films. 2015 , 52, 243-251		12
530	The design of pH-sensitive chitosan-based formulations for gastrointestinal delivery. 2015 , 20, 1004-11		85
529	Nanoparticles based on Econglycinin and chitosan: Self-assembly, characterization, and drug delivery. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	1
528	Application of guanidine-containing polymers for preparation of pH responsive silica-based particles for drug delivery systems. 2015 , 477, 26-34		14
527	Luciferase gene-loaded CS-Qdots as self-illuminating probes for specific hepatoma imaging. 2015 , 5, 29048-29057		3
526	Modified Polysaccharides for Drug Delivery. 2015 , 1805-1835		7
525	Improving oral drug bioavailability with polycations?. 2015 , 97, 427-37		32
524	Preparation and characterization of O-carboxymethyl chitosanBodium alginate polyelectrolyte complexes. 2015 , 293, 401-407		11
523	Preparation, characterization and in vitro digestibility of gellan and chitosan-gellan microgels. <i>Carbohydrate Polymers</i> , 2015 , 117, 54-62	10.3	52
522	Psyllium arabinoxylan: carboxymethylation, characterization and evaluation for nanoparticulate drug delivery. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 495-501	7.9	44
521	Chitosan/fucoidan multilayer nanocapsules as a vehicle for controlled release of bioactive compounds. <i>Carbohydrate Polymers</i> , 2015 , 115, 1-9	10.3	126
520	Polymer-Drug Nanoconjugate l'An Innovative Nanomedicine: Challenges and Recent Advancements in Rational Formulation Design for Effective Delivery of Poorly Soluble Drugs. 2016 , 4, 38-79		10
519	. 2016,		20
518	Seaweed Polysaccharide-Based Nanoparticles: Preparation and Applications for Drug Delivery. 2016 , 8,		101
517	Sulfated Seaweed Polysaccharides as Multifunctional Materials in Drug Delivery Applications. <i>Marine Drugs</i> , 2016 , 14,	6	280
516	Effect of Chitosan Properties on Immunoreactivity. <i>Marine Drugs</i> , 2016 , 14,	6	34
515	"The Good, the Bad and the Ugly" of Chitosans. <i>Marine Drugs</i> , 2016 , 14,	6	184
514	Polysaccharide-Based Membranes in Food Packaging Applications. 2016 , 6,		145

513	Novel nanoparticle materials for drug/food delivery-polysaccharides. <i>ChemistrySelect</i> , 2016 , 1,	1.8	3
512	Long-term Efficacy and Biocompatibility of Encapsulated Islet Transplantation With Chitosan-Coated Alginate Capsules in Mice and Canine Models of Diabetes. 2016 , 100, 334-43		32
511	Characterization and cytocompatibility of a new injectable multiphasic bone substitute based on a combination of polysaccharide gel-coated OSPROLIFE([]) HA/TTCP granules and bone marrow concentrate. 2016 , 104, 894-902		1
510	Development of amphoteric alginate/aminated chitosan coated microbeads for oral protein delivery. <i>International Journal of Biological Macromolecules</i> , 2016 , 92, 362-370	7.9	53
509	Polysaccharide-based membranes loaded with erythromycin for application as wound dressings. Journal of Applied Polymer Science, 2016, 133, n/a-n/a	2.9	14
508	8. Novel nanoparticle materials for drug/food delivery-polysaccharides. 2016 , 159-190		
507	Extraction and characterization of the auricularia auricular polysaccharide. 2016 , 137, 012004		
506	The effect of methacrylation on the behavior of Gum Arabic as pH-responsive matrix for colon-specific drug delivery. 2016 , 78, 326-339		18
505	Preparation and evaluation of naringenin-loaded sulfobutylether-Ecyclodextrin/chitosan nanoparticles for ocular drug delivery. <i>Carbohydrate Polymers</i> , 2016 , 149, 224-30	10.3	83
504	Cell Permeating Nano-Complexes of Amphiphilic Polyelectrolytes Enhance Solubility, Stability, and Anti-Cancer Efficacy of Curcumin. 2016 , 17, 2375-83		24
503	Particle tracking microrheology of the power-law viscoelasticity of xanthan solutions. <i>Food Hydrocolloids</i> , 2016 , 61, 201-210	10.6	23
502	Development and characterization of bilayer films of FucoPol and chitosan. <i>Carbohydrate Polymers</i> , 2016 , 147, 8-15	10.3	74
501	Green synthesis of biocompatiable chitosan-graphene oxide hybrid nanosheet by ultrasonication method. 2016 , 32, 300-306		40
500	Polysaccharide-based nanocomplexes for co-encapsulation and controlled release of 5-Fluorouracil and Temozolomide. 2016 , 92, 276-86		18
499	Response surface methodology for the synthesis of an Auricularia auriculajudae polysaccharides-CDDP complex. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 333-343	7.9	25
498	Effect of the cross-linking agent on performances of NaCS-CS/WSC microcapsules. 2016 , 147, 416-421		4
497	Enhancing mechanical properties of polyelectrolyte complex nanofibers with graphene oxide nanofillers pretreated by polycation. 2016 , 135, 128-136		30
496	Encapsulation by complex coacervation. 2016 , 41-77		3

495	Evaluation of chitosan hydrochloride-alginate as enteric micro-probiotic-carrier with dual protective barriers. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 665-671	7.9	12
494	Marine Polysaccharides Based Nano-Materials and Its Applications. 2016 , 185-225		5
493	Systems for Drug Delivery. 2016 ,		3
492	Natural Polymer Drug Delivery Systems. 2016 ,		69
491	Formation of redispersible polyelectrolyte complex nanoparticles from gallic acid-chitosan conjugate and gum arabic. <i>International Journal of Biological Macromolecules</i> , 2016 , 92, 812-819	7.9	39
490	Molecular Dynamics Simulations of Hydration Effects on Solvation, Diffusivity, and Permeability in Chitosan/Chitin Films. 2016 , 120, 8997-9010		22
489	Scattering investigation of multiscale organization in aqueous solutions of native xanthan. <i>Carbohydrate Polymers</i> , 2016 , 153, 196-202	10.3	10
488	Polyelectrolyte complexes via desalting mixtures of hyaluronic acid and chitosan-Physicochemical study and structural analysis. <i>Carbohydrate Polymers</i> , 2016 , 154, 86-95	10.3	34
487	Probiotic-loaded microcapsule system for human in situ folate production: Encapsulation and system validation. <i>Food Research International</i> , 2016 , 90, 25-32	7	19
486	Preparation and characterization of pH dependent Etarrageenan-chitosan nanoparticle as potential slow release delivery carrier. 2016 , 25, 1037-1046		13
485	Design and evaluation of a novel potential carrier for a hydrophilic antitumor drug: Auricularia auricular polysaccharide-chitosan nanoparticles as a delivery system for doxorubicin hydrochloride. 2016 , 511, 267-275		29
484	Full polysaccharide crosslinked-chitosan and silver nano composites, for use as an antibacterial membrane. 2016 , 34, 949-964		13
483	Co-assembly of chitosan and phospholipids into hybrid hydrogels. 2016 , 88, 905-916		8
482	Advanced Application of Natural Polysaccharides. 2016 , 147-170		
481	Depolymerization Properties of Bio-Based Polymers. 2016 , 317-358		
480	Sustained release of potassium diclofenac from a pH-responsive hydrogel based on gum arabic conjugates into simulated intestinal fluid. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	12
479	Genipin-crosslinked O-carboxymethyl chitosan-gum Arabic coacervate as a pH-sensitive delivery system and microstructure characterization. 2016 , 31, 193-204		17
478	Effective co-delivery of doxorubicin and curcumin using a glycyrrhetinic acid-modified chitosan-cystamine-poly(Eaprolactone) copolymer micelle for combination cancer chemotherapy. 2016, 145, 526-538		47

477	Hybrid electrospun chitosan-phospholipids nanofibers for transdermal drug delivery. 2016 , 510, 48-56		123
476	Polyion complex (PIC) particles: Preparation and biomedical applications. 2016 , 81, 198-215		69
475	Bacterial-derived biopolymers: Advanced natural nanomaterials for drug delivery and tissue engineering. 2016 , 82, 367-384		68
474	Alginate/carboxymethyl chitosan composite gel beads for oral drug delivery. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	23
473	Polyphenol-chitosan conjugates: Synthesis, characterization, and applications. <i>Carbohydrate Polymers</i> , 2016 , 151, 624-639	10.3	131
472	Preparation and sustainable release of modified konjac glucomannan/chitosan nanospheres. International Journal of Biological Macromolecules, 2016, 91, 609-14	7.9	15
471	Phase Behavior of Polyelectrolyte Complexes and Rheological Behavior of Alumina suspensions for Direct Ink Writing. 2016 , 99, 1902-1910		12
470	Chitosan Cross-Linked Pentasodium Tripolyphosphate Micro/Nanoparticles Produced by Ionotropic Gelation. 2016 , 18, 49-54		20
469	Novel technologies for the encapsulation of bioactive food compounds. 2016 , 7, 78-85		48
468	Low density lipoprotein/pectin complex nanogels as potential oral delivery vehicles for curcumin. <i>Food Hydrocolloids</i> , 2016 , 57, 20-29	10.6	100
467	Comparative investigation of the binding characteristics of poly-L-lysine and chitosan on alginate hydrogel. <i>International Journal of Biological Macromolecules</i> , 2016 , 84, 135-41	7.9	16
466	Water absorption and moisture permeation properties of chitosan/poly(acrylamide-co-itaconic acid) IPC films. <i>International Journal of Biological Macromolecules</i> , 2016 , 84, 1-9	7.9	21
465	Effects of supercritical carbon dioxide processing on the properties of chitosan Ilginate membranes. 2016 , 112, 128-135		17
464	Thiolated carboxymethyl dextran as a nanocarrier for colon delivery of hSET1 antisense: In vitro stability and efficiency study. 2016 , 62, 771-8		26
463	Degradable Controlled-Release Polymers and Polymeric Nanoparticles: Mechanisms of Controlling Drug Release. 2016 , 116, 2602-63		1422
462	Auricularia auricular polysaccharide-low molecular weight chitosan polyelectrolyte complex nanoparticles: Preparation and characterization. 2016 , 11, 439-448		18
461	Dermatan sulfate/chitosan polyelectrolyte complex with potential application in the treatment and diagnosis of vascular disease. <i>Carbohydrate Polymers</i> , 2016 , 144, 362-70	10.3	21
460	Ultrasonic compatibilization of polyelectrolyte complex based on polysaccharides for biomedical applications. 2016 , 30, 1-8		18

459	Fabrication and formation studies on single-walled CA/NaCS-WSC microcapsules. 2016 , 59, 909-915		5
458	Sterculia Gum-Based Hydrogels for Drug Delivery Applications. 2016 , 105-151		33
457	Thermodynamic Changes Induced by Intermolecular Interaction Between Ibuprofen and Chitosan: Effect on Crystal Habit, Solubility and In Vitro Release Kinetics of Ibuprofen. 2016 , 33, 337-57		19
456	Marine polysaccharide-based nanomaterials as a novel source of nanobiotechnological applications. <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 315-27	7.9	112
455	Competitive fluorescence assay for specific recognition of atrazine by magnetic molecularly imprinted polymer based on Fe3O4-chitosan. <i>Carbohydrate Polymers</i> , 2016 , 137, 75-81	10.3	56
454	Preparation of polyelectrolyte complex nanoparticles of chitosan and poly(2-acry1amido-2-methylpropanesulfonic acid) for doxorubicin release. 2016 , 58, 724-9		27
453	A novel coreBhell chronotherapeutic system for the oral administration of ketoprofen. 2016 , 32, 126-13	31	11
452	Chitosan-gum arabic polyelectrolyte complex films: physicochemical, mechanical and mucoadhesive properties. 2016 , 21, 590-9		23
451	Preparation and characterization of chitosan/sepiolite bionanocomposites for tetracycline release. 2017 , 38, 1810-1818		12
450	Chitosan-based hydrogels: recent design concepts to tailor properties and functions. 2017 , 66, 981-998		68
449	Ultrasound-assisted extraction and structural characterization by NMR of alginates and carrageenans from seaweeds. <i>Carbohydrate Polymers</i> , 2017 , 166, 55-63	10.3	104
449 448		10.3 7.9	104 45
	carrageenans from seaweeds. <i>Carbohydrate Polymers</i> , 2017 , 166, 55-63 Pectin-zinc-chitosan-polyethylene glycol colloidal nano-suspension as a food grade carrier for colon		
448	Pectin-zinc-chitosan-polyethylene glycol colloidal nano-suspension as a food grade carrier for colon targeted delivery of resveratrol. <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 16-22 Mesoporous-activated carbon prepared from chitosan flakes via single-step sodium hydroxide activation for the adsorption of methylene blue. <i>International Journal of Biological Macromolecules</i> ,	7.9	45
448	Pectin-zinc-chitosan-polyethylene glycol colloidal nano-suspension as a food grade carrier for colon targeted delivery of resveratrol. <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 16-22 Mesoporous-activated carbon prepared from chitosan flakes via single-step sodium hydroxide activation for the adsorption of methylene blue. <i>International Journal of Biological Macromolecules</i> , 2017 , 98, 233-239 A novel starch-based stimuli-responsive nanosystem for theranostic applications. <i>International</i>	7.9 7.9	45 192
448 447 446	Pectin-zinc-chitosan-polyethylene glycol colloidal nano-suspension as a food grade carrier for colon targeted delivery of resveratrol. <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 16-22 Mesoporous-activated carbon prepared from chitosan flakes via single-step sodium hydroxide activation for the adsorption of methylene blue. <i>International Journal of Biological Macromolecules</i> , 2017 , 98, 233-239 A novel starch-based stimuli-responsive nanosystem for theranostic applications. <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 654-661 Ampholytic microspheres constructed from chitosan and carrageenan in alkali/urea aqueous	7.9 7.9	45 192 42
448 447 446 445	Pectin-zinc-chitosan-polyethylene glycol colloidal nano-suspension as a food grade carrier for colon targeted delivery of resveratrol. <i>International Journal of Biological Macromolecules</i> , 2017, 97, 16-22 Mesoporous-activated carbon prepared from chitosan flakes via single-step sodium hydroxide activation for the adsorption of methylene blue. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 233-239 A novel starch-based stimuli-responsive nanosystem for theranostic applications. <i>International Journal of Biological Macromolecules</i> , 2017, 97, 654-661 Ampholytic microspheres constructed from chitosan and carrageenan in alkali/urea aqueous solution for purification of various wastewater. 2017, 317, 766-776 In vitro drug release profiles of pH-sensitive hydroxyethylacryl chitosan/sodium alginate hydrogels using paracetamol as a soluble model drug. <i>International Journal of Biological Macromolecules</i> , 2017	7·9 7·9 7·9	45 192 42 61

(2017-2017)

441	Development and Evaluation of Buccal Films Based on Chitosan for the Potential Treatment of Oral Candidiasis. 2017 , 18, 936-946	42
440	Synthesis and characterization of polyvinyl alcohol- carboxymethyl tamarind gum based composite films. <i>Carbohydrate Polymers</i> , 2017 , 165, 159-168	3 25
439	Chitosan supraparticles with fluorescent silica nanoparticle shells and nanodiamond-loaded cores. 2017 , 5, 1664-1672	8
438	Intestine-targeted delivery potency of the O-carboxymethyl chitosan-gum Arabic coacervate: Effects of coacervation acidity and possible mechanism. 2017 , 79, 423-429	13
437	Formulation and in-vitro efficacy of antifungal mucoadhesive polymeric matrices for the delivery of miconazole nitrate. 2017 , 79, 140-150	28
436	Polymer Brush-Functionalized Chitosan Hydrogels as Antifouling Implant Coatings. 2017 , 18, 1983-1992	43
435	Development of hydroxyapatite-chitosan gel sunscreen combating clinical multidrug-resistant bacteria. 2017 , 1143, 251-258	40
434	Construction and characterization of nanosized curdlan sulfate/chitosan polyelectrolyte complex toward drug release of zidovudine. <i>Carbohydrate Polymers</i> , 2017 , 174, 209-216	; 19
433	Waluation of biocompatibility and antioxidant efficiency of chitosan-alginate nanoparticles loaded with quercetin. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 771-782	63
432	Recent advances in the treatment of glioblastoma multiforme by inhibiting angiogenesis and using nanocarrier systems. 2017 , 77, 30-40	3
431	pH-dependent release of antihypertensives from complexes with poly(carboxyalkyl methacrylamides). 2017 , 39, 508-515	1
430	Self-assembled polyelectrolyte complexes films as efficient compression coating layers for controlled-releasing tablets. 2017 , 28, 67	3
429	Nanosized dispersions based on chitosan and NaPSS. <i>Journal of Polymer Research</i> , 2017 , 24, 1 2.7	5
428	Magnetic molecularly imprinted polymers for recognition and enrichment of polysaccharides from seaweed. 2017 , 40, 4765-4772	17
427	Self-assembly of polyelectrolyte complexes microcapsules with natural polysaccharides for sustained drug release. 2017 , 24, 4949-4962	12
426	Molecular engineering solutions for therapeutic peptide delivery. 2017 , 46, 6553-6569	75
425	Electrostatic self-assembly of polysaccharides into nanofibers. 2017 , 531, 182-188	29
424	Differentiation of dental pulp stem cells into chondrocytes upon culture on porous chitosan-xanthan scaffolds in the presence of kartogenin. 2017 , 80, 594-602	33

423	Cellulose nanocrystals/polyethylene glycol as bifunctional reinforcing/compatibilizing agents in poly(lactic acid) nanofibers for controlling long-term in vitro drug release. 2017 , 24, 4461-4477	33
422	Modification of xanthan solution properties by the cationic surfactant DTMAB. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 1213-1219	7
421	Recent Progress in Biocomposite of Biodegradable Polymer. 2017 , 61-94	1
420	Investigation of cationized triblock and diblock poly(Etaprolactone)-co-poly(ethylene glycol) copolymers for oral delivery of enoxaparin: In vitro approach. 2017 , 61, 180-192	5
419	In vitro physiological and antibacterial characterization of ZnO nanoparticle composites in simulated porcine gastric and enteric fluids. 2017 , 13, 181	6
418	Production of chitosan-based hydrogels for biomedical applications. 2017 , 295-319	16
417	Chitosan for the delivery of antibiotics. 2017 , 147-173	9
416	Development of polysaccharide-based membranes incorporating the bioactive compound aloin. 2017 , 66, 193-202	9
415	Rapidly and Effectively Improving the Mechanical Properties of Polyelectrolyte Complex Nanofibers through Microwave Treatment . 2017 , 19, 1600483	11
414	Controlled local drug delivery strategies from chitosan hydrogels for wound healing. 2017 , 14, 897-908	43
413	Electrospinning of food proteins and polysaccharides. <i>Food Hydrocolloids</i> , 2017 , 68, 53-68	163
412	Investigation of cell adhesion in chitosan membranes for peripheral nerve regeneration. 2017, 71, 1122-1134	30
411	Biopolymer Produced by the Lactic Acid Bacteria: Production and Practical Application. 2017, 217-257	4
410	Production of micro- and nanoscale chitosan particles for biomedical applications. 2017 , 185-209	8
409	MONITORING THE UPTAKE AND INTRACELLULAR FATE OF NANOVECTORS BY MICROSCOPICAL TECHNIQUES. 2017 ,	
408	Food-derived biopolymers for nutrient delivery. 2017 , 251-291	7
407	Delivery of Antimicrobials by Chitosan-Composed Therapeutic Nanostructures. 2017 , 203-222	13
406	Effect of Protonation State and N-Acetylation of Chitosan on Its Interaction with Xanthan Gum: A Molecular Dynamics Simulation Study. <i>Marine Drugs</i> , 2017 , 15,	16

405	Anti-Microbial Biopolymer Hydrogel Scaffolds for Stem Cell Encapsulation. 2017, 9,		6
404	The Application, Neurotoxicity, and Related Mechanism of Cationic Polymers**Conflict of Interests: All the Figures and Table in The application, neurotoxicity, and related mechanism of cationic polymers are original, unpublished materials designed and prepared by Yubin Li and Dianwen Ju.		14
403	Characterization of Polyelectrolyte Complex Formation Between Anionic and Cationic Poly(amino acids) and Their Potential Applications in pH-Dependent Drug Delivery. 2017 , 22,		16
402	Smart Carriers and Nanohealers: A Nanomedical Insight on Natural Polymers. 2017 , 10,		30
401	Biopolymers for gene delivery applications. 2017 , 289-323		1
400	Modulation of osteogenic and haemostatic activities by tuning cationicity of genipin-crosslinked chitosan hydrogels. 2018 , 166, 29-36		15
399	Design and Evaluation of the Release Characteristics of Caffeine-Loaded Microcapsules in a Medicated Chewing Gum Formulation. 2018 , 13, 240-249		6
398	State of the art of polymeric nanoparticles as carrier systems with agricultural applications: a minireview. 2018 , 3, 137-148		38
397	Chitosan nanoencapsulation of flavonoids enhances their quorum sensing and biofilm formation inhibitory activities against an E.coli Top 10 biosensor. 2018 , 164, 125-133		30
396	Durable pectin/chitosan membranes with self-assembling, water resistance and enhanced mechanical properties. <i>Carbohydrate Polymers</i> , 2018 , 188, 136-142	10.3	37
395	Curcumin and piperine loaded zein-chitosan nanoparticles: Development and in-vitro characterisation. 2018 , 26, 323-334		62
394	Improved eco-friendly barrier materials based on crystalline nanocellulose/chitosan/carboxymethyl cellulose polyelectrolyte complexes. <i>Food Hydrocolloids</i> , 2018 , 80, 195-205	10.6	57
393	A solid-state electrochemical sensing platform based on a supramolecular hydrogel. 2018 , 262, 326-333	}	21
392	Synergistic effect of graphene oxide-silver nanofillers on engineering performances of polyelectrolyte complex nanofiber membranes. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46238	2.9	16
391	Bionanocomposites for Packaging Applications. 2018,		8
390	pH-triggered surface charge-reversal nanoparticles alleviate experimental murine colitis via selective accumulation in inflamed colon regions. 2018 , 14, 823-834		27
389	Use of nanostructured materials in drug delivery. 2018 , 503-549		2
388	Methodologies for Studying Bioactive Polysaccharides. 2018 , 51-97		

387	Facile preparation and characterization of pH sensitive Mt/CMC nanocomposite hydrogel beads for propranolol controlled release. <i>International Journal of Biological Macromolecules</i> , 2018 , 111, 696-705	38
386	Polysaccharide-Based Controlled Release Systems for Therapeutics Delivery and Tissue Engineering: From Bench to Bedside. 2018 , 5, 1700513	137
385	Development of caffeine-encapsulated alginate-based matrix combined with different natural biopolymers, and evaluation of release in simulated mouth conditions. 2018 , 33, 357-366	13
384	Structure and stability analysis of biocompatible hydroxyapatite reinforced chitosan nanocomposite. 2018 , 39, E573-E583	3
383	Study of dual encapsulation possibility of hydrophobic and hydrophilic drugs into a nanocarrier based on bio-polymer coated graphene oxide using density functional theory, molecular dynamics simulation and experimental methods. 2018 , 262, 204-217	26
382	Monte Carlo simulation for guar and xanthan gums as green scale inhibitors. 2018 , 166, 263-273	27
381	Conversion of amine groups on chitosan-coated SPIONs into carbocyclic acid and investigation of its interaction with BSA in drug delivery systems. 2018 , 45, 373-377	9
380	Biomaterials for drug delivery patches. 2018 , 118, 49-66	63
379	Controlled release of fluorouracil (5-FU) from chitosan-co-poly(ethylene glycol)/ poly(glycerol sebacate)-co-poly(ethylene glycol)-coated iron oxide. 2018 , 67, 212-220	5
378	Chemical crosslinking improves the gastrointestinal stability and enhances nutrient delivery potentials of egg yolk LDL/polysaccharide nanogels. 2018 , 239, 840-847	27
377	Magnetic stimulus responsive vancomycin drug delivery system based on chitosan microbeads embedded with magnetic nanoparticles. 2018 , 106, 2169-2176	22
376	Characterization of high density lipoprotein from egg yolk and its ability to form nanocomplexes with chitosan as natural delivery vehicles. <i>Food Hydrocolloids</i> , 2018 , 77, 204-211	5 23
375	Investigation into the physicochemical stability and rheological properties of rutin emulsions stabilized by chitosan and lecithin. 2018 , 229, 12-20	26
374	Formation and characterization of polyelectrolyte complex synthesized by chitosan and carboxylic curdlan for 5-fluorouracil delivery. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 397-405 ⁷⁻⁹	21
373	Polyelectrolyte complex of carboxymethyl gum katira-chitosan: Preparation and characterization. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 1184-1191	22
372	Polysaccharides-Based Bionanocomposites for Food Packaging Applications. 2018 , 191-208	5
371	Novel SO 3 H functionalized magnetic nanoporous silica/polymer nanocomposite as a carrier in a dual-drug delivery system for anticancer therapy. 2018 , 263, 96-105	11
370	Methotrexate loaded gellan gum microparticles for drug delivery. <i>International Journal of Biological Macromolecules</i> , 2018 , 110, 346-356	28

(2018-2018)

369	Tracking the transdermal penetration pathways of optimized curcumin-loaded chitosan nanoparticles via confocal laser scanning microscopy. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 753-764	7.9	64
368	Preparation and characterization of maleoylagarose/PNIPAAm graft copolymers and formation of polyelectrolyte complexes with chitosan. <i>Carbohydrate Polymers</i> , 2018 , 182, 81-91	10.3	14
367	Food Biopackaging Based on Chitosan. 2018 , 1-27		2
366	Chemical Functionalization of Polysaccharides-Towards Biocompatible Hydrogels for Biomedical Applications. 2018 , 24, 1231-1240		59
365	Chitosan-Based Edible Membranes for Food Packaging. 2018 , 237-267		1
364	Formation and Characterization of Caseinate © hitosan Nanocomplexes for Encapsulation of Curcumin. 2018 , 51, 445-453		3
363	Chitosan-Polylactide/Hyaluronic Acid Complex Microspheres as Carriers for Controlled Release of Bioactive Transforming Growth Factor-11. 2018 , 10,		5
362	Protein-polysaccharide nanohybrids: Hybridization techniques and drug delivery applications. 2018 , 133, 42-62		26
361	pH-responsive Capsaicin@chitosan nanocapsules for antibiofouling in marine applications. 2018 , 158, 223-230		64
360	Concepts for Developing Physical Gels of Chitosan and of Chitosan Derivatives. <i>Gels</i> , 2018 , 4,	4.2	50
359	Bio-Inspired Molecules Extracted from Marine Macroalgae: A New Generation of Active Ingredients for Cosmetics and Human Health. 2018 , 709-746		7
358	Preparation, characterization and functional evaluation of chitosan-based films with zein coatings produced by cold plasma. <i>Carbohydrate Polymers</i> , 2018 , 202, 39-46	10.3	32
357	Chitosan-Based Polyelectrolyte Complex Hydrogels for Biomedical Applications. 2018, 1-31		
356	pH-Dependent intestine-targeted delivery potency of the O-carboxymethyl chitosan - gum Arabic coacervates. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 315-322	7.9	7
355	Advances in micro and nano-encapsulation of bioactive compounds using biopolymer and lipid-based transporters. 2018 , 78, 34-60		248
354	Tamoxifen citrate loaded chitosan-gellan nanocapsules for breast cancer therapy: development, characterisation and in-vitro cell viability study. 2018 , 35, 292-300		11
353	Pectin-chitosan membrane scaffold imparts controlled stem cell adhesion and proliferation. <i>Carbohydrate Polymers</i> , 2018 , 197, 47-56	10.3	72
352	Stimuli-responsive biopolymer nanocarriers for drug delivery applications. 2018 , 405-432		7

351	Responsive polyelectrolyte complexes based on natural polysaccharides for drug delivery applications. 2018 , 267-287	5
350	Folic acid-chitosan-alginate nanocomplexes for multiple delivery of chemotherapeutic agents. 2018 , 47, 67-76	10
349	Injectable polysaccharide hydrogel embedded with hydroxyapatite and calcium carbonate for drug delivery and bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1257 ⁻⁵	⁹ 266 ⁹²
348	Surface Engineered Magnetic Biosorbents for Water Treatment. 2018 , 301-342	6
347	Adsorption of rosmarinic acid from aqueous solution on chitosan powder. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1013-1020	9 10
346	An Overview of Chitosan-Xanthan Gum Matrices as Controlled Release Drug Carriers. 2018,	1
345	Preparation, physicochemical characterization and antimicrobial activities of novel two phenolic chitosan Schiff base derivatives. 2018 , 8, 11416	87
344	Environmental stress stability of pectin-stabilized resveratrol liposomes with different degree of esterification. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 53-59	9 40
343	Chitosan Based Self-Assembled Nanoparticles in Drug Delivery. 2018 , 10,	129
342	Immune Profiling of Polysaccharide Submicron Vesicles. 2018 , 19, 3560-3571	4
342	Immune Profiling of Polysaccharide Submicron Vesicles. 2018 , 19, 3560-3571 Biopolymers for the Nano-microencapsulation of Bioactive Ingredients by Electrohydrodynamic Processing. 2018 , 447-479	6
	Biopolymers for the Nano-microencapsulation of Bioactive Ingredients by Electrohydrodynamic	
341	Biopolymers for the Nano-microencapsulation of Bioactive Ingredients by Electrohydrodynamic Processing. 2018, 447-479 Electrospinning and crosslinking of polyvinyl alcohol/chitosan composite nanofiber for transdermal	6
341	Biopolymers for the Nano-microencapsulation of Bioactive Ingredients by Electrohydrodynamic Processing. 2018, 447-479 Electrospinning and crosslinking of polyvinyl alcohol/chitosan composite nanofiber for transdermal drug delivery. 2018, 37, 1917-1928 Morphological, Mechanical and Mucoadhesive Properties of Electrospun Chitosan/Phospholipid	6 77
341 340 339	Biopolymers for the Nano-microencapsulation of Bioactive Ingredients by Electrohydrodynamic Processing. 2018, 447-479 Electrospinning and crosslinking of polyvinyl alcohol/chitosan composite nanofiber for transdermal drug delivery. 2018, 37, 1917-1928 Morphological, Mechanical and Mucoadhesive Properties of Electrospun Chitosan/Phospholipid Hybrid Nanofibers. 2018, 19, Towards wound dressings with improved properties: Effects of poly(dimethylsiloxane) on	6 77 28
341 340 339 338	Biopolymers for the Nano-microencapsulation of Bioactive Ingredients by Electrohydrodynamic Processing. 2018, 447-479 Electrospinning and crosslinking of polyvinyl alcohol/chitosan composite nanofiber for transdermal drug delivery. 2018, 37, 1917-1928 Morphological, Mechanical and Mucoadhesive Properties of Electrospun Chitosan/Phospholipid Hybrid Nanofibers. 2018, 19, Towards wound dressings with improved properties: Effects of poly(dimethylsiloxane) on chitosan-alginate films loaded with thymol and beta-carotene. 2018, 93, 595-605 Influence of lidocaine forms (salt vs. freebase) on properties of drug-eudragit① L100-55 extrudates	6 77 28 43
341 340 339 338 337	Biopolymers for the Nano-microencapsulation of Bioactive Ingredients by Electrohydrodynamic Processing. 2018, 447-479 Electrospinning and crosslinking of polyvinyl alcohol/chitosan composite nanofiber for transdermal drug delivery. 2018, 37, 1917-1928 Morphological, Mechanical and Mucoadhesive Properties of Electrospun Chitosan/Phospholipid Hybrid Nanofibers. 2018, 19, Towards wound dressings with improved properties: Effects of poly(dimethylsiloxane) on chitosan-alginate films loaded with thymol and beta-carotene. 2018, 93, 595-605 Influence of lidocaine forms (salt vs. freebase) on properties of drug-eudragit[] L100-55 extrudates prepared by reactive melt extrusion. 2018, 547, 291-302 Flutamide-Loaded Zein Nanocapsule Hydrogel, a Promising Dermal Delivery System for	6 77 28 43 16

333	Hygroscopicity modulation of hydrogels based on carboxymethyl chitosan/Alginate polyelectrolyte complexes and its application as pH-sensitive delivery system. <i>Carbohydrate Polymers</i> , 2018 , 198, 86-93	10.3	53
332	Natural Biopolymers for Biomedical Applications. 2019 , 162-176		1
331	Preparation optimization and characterization of chitosan-tripolyphosphate microcapsules for the encapsulation of herbal galactagogue extract. <i>International Journal of Biological Macromolecules</i> , 2019 , 140, 920-928	7.9	19
330	Advancement in the Biomedical Applications of the (Nano)gel Structures Based on Particular Polysaccharides. 2019 , 19, e1900187		20
329	Mucoadhesive Chitosan-Gum Arabic Nanoparticles Enhance the Absorption and Antioxidant Activity of Quercetin in the Intestinal Cellular Environment. 2019 , 67, 8609-8616		16
328	The Elasticity of Calcium Phosphate MAO Coatings Containing Different Concentrations of Chitosan. 2019 , 544, 012009		
327	Complexation of chitosan with gum Arabic, sodium alginate and Ecarrageenan: Effects of pH, polymer ratio and salt concentration. <i>Carbohydrate Polymers</i> , 2019 , 223, 115120	10.3	25
326	Genipin-enhanced nacre-inspired montmorillonite-chitosan film with superior mechanical and UV-blocking properties. 2019 , 182, 107747		16
325	Natural polysaccharides for growth factors delivery. 2019 , 495-512		3
324	Hydrogels Based on Chitosan and Chitosan Derivatives for Biomedical Applications. 2019,		3
323	Chitosan-based particulate composites: drug delivery and biomedical potential. 2019, 477-513		
322	Ionic Nanocomplexes of Hyaluronic Acid and Polyarginine to Form Solid Materials: A Green Methodology to Obtain Sponges with Biomedical Potential. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
321	Chitosan-gum Arabic complex nanocarriers for encapsulation of saffron bioactive components. 2019 , 578, 123644		57
320	Simultaneous Retrieval of PWV and VTEC by Low-Cost Multi-GNSS Single-Frequency Receivers. 2019 , 6, 1694-1709		6
319	Advanced Functional Materials from Nanopolysaccharides. 2019,		7
318	Rational Design of Nanocarriers for Intracellular Protein Delivery. 2019 , 31, e1902791		80
317	Carbon nanotubes immobilized on gold electrode as an electrochemical humidity sensor. 2019 , 300, 127	049	16
316	Polysaccharides constructed hydrogels as vehicles for proteins and peptides. A review. <i>Carbohydrate Polymers</i> , 2019 , 225, 115210	10.3	69

315	Recent Advance in Polymer Based Microspheric Systems for Controlled Protein and Peptide Delivery. 2019 , 26, 2285-2296		25
314	Carbohydrate-based nanocarriers and their application to target macrophages and deliver antimicrobial agents. 2019 , 151-152, 94-129		39
313	Polyelectrolyte-Based Platforms for the Delivery of Peptides and Proteins. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 4937-4950	5.5	35
312	Synthesis, characterization and evaluation of deacetylated xanthan derivatives as new excipients in the formulation of chitosan-based polyelectrolytes for the sustained release of tramadol. 2019 , 27, 112	27-113	7 ⁷
311	Preparation and Characterization of Chitosan Alginate Polyelectrolyte Complexes Loaded with Antibacterial Thyme Oil Nanoemulsions. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3933	2.6	19
310	Antioxidant and antibacterial activities of omega-3 rich oils/curcumin nanoemulsions loaded in chitosan and alginate-based microbeads. <i>International Journal of Biological Macromolecules</i> , 2019 , 140, 682-696	7.9	20
309	Chitosan as an emerging object for biological and biomedical applications. 2019 , 39, 689-703		6
308	Development and Characterization of Metformin Loaded Pectin Nanoparticles for T2 Diabetes Mellitus. 2018 , 6, 253-263		13
307	Structural Investigation of a Self-Cross-Linked Chitosan/Alginate Dialdehyde Multilayered Film with in Situ QCM-D and Spectroscopic Ellipsometry. 2019 , 4, 2019-2029		16
306	Polymeric Nanoparticulates as Efficient Anticancer Drugs Delivery Systems. 2019 , 55-84		2
305	Hazardous acid detection based on chitosan-grafted-polyaniline copolymer. 2019 , 59, E105-E110		3
304	Aligned microchannel polymer-nanotube composites for peripheral nerve regeneration: Small molecule drug delivery. 2019 , 296, 54-67		35
303	Prediction of breakthrough curves in packed-bed column as tool for lysozyme isolation using a green bed. 2019 , 76, 5831-5847		1
302	Characterisation of chitosan molecular weight distribution by multi-detection asymmetric flow-field flow fractionation (AF4) and SEC. <i>International Journal of Biological Macromolecules</i> , 2019 , 136, 911-919	7.9	13
301	Nanoparticle Diffusion within Dilute and Semidilute Xanthan Solutions. 2019, 35, 7978-7984		5
300	Strong luminescence and sharp heavy metal ion sensitivity of water-soluble hybrid polysaccharide nanoparticles with Eu3+ and Tb3+ inclusions. 2019 , 9, 1833-1844		10
299	Films based on the biopolymer poly(3-hydroxybutyrate) as platforms for the controlled release of dexamethasone. 2019 , 27, 694-701		4
298	Synthesis of Ga-Labeled Biopolymer-based Nanoparticle Imaging Agents for Positron-emission Tomography. 2019 , 39, 2415-2427		11

297	Porous three-dimensional polymer composites for tailored delivery of bioactives and drugs. 2019 , 331-369	2
296	Possibilities and perspectives of chitosan scaffolds and composites for tissue engineering. 2019 , 167-203	4
295	Gastroretentive floating matrix tablets of cephradine based on psyllium husk. 2019, 8, 206-215	Ο
294	Development of Novel EE/Alginate Polyelectrolyte Complex Nanoparticles for Lysozyme Delivery: Physicochemical Properties and In Vitro Safety. 2019 , 11,	14
293	Polyelectrolyte complexes of carboxymethyl chitosan/alginate based drug carrier for targeted and controlled release of dual drug. 2019 , 51, 569-582	22
292	Microfluidic assembly of food-grade delivery systems: Toward functional delivery structure design. 2019 , 86, 465-478	14
291	Supramolecular Strategy Effects on Chitosan Bead Stability in Acidic Media: A Comparative Study. <i>Gels</i> , 2019 , 5,	8
2 90	Complex of chitosan pectin and clay as diclofenac carrier. 2019 , 172, 155-164	25
289	Polysaccharide-based wrinkled surfaces induced by polyion complex skin layers upon drying. 2019 , 51, 675-683	6
288	Chitosan-Chondroitin sulfate based polyelectrolyte complex for effective management of chronic wounds. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 97-108	36
287	Dual-layered pH-sensitive alginate/chitosan/kappa-carrageenan microbeads for colon-targeted release of 5-fluorouracil. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 487-494	58
286	Electrospinning and electrospraying technologies for food applications. <i>Advances in Food and Nutrition Research</i> , 2019 , 88, 167-234	33
285	Mechanical and Water-Resistant Properties of Eco-Friendly Chitosan Membrane Reinforced with Cellulose Nanocrystals. 2019 , 11,	34
284	Influence of the Soluble?Insoluble Ratios of Cyclodextrins Polymers on the Viscoelastic Properties of Injectable Chitosan?Based Hydrogels for Biomedical Application. 2019 , 11,	12
283	Brea Tree (Cercidium praecox) Exudate Gum. 2019 , 347-370	0
282	Sustainable Biopolymers in Textiles: An Overview. 2019 , 1435-1460	Ο
281	Carbohydrate polymers as controlled release devices for pesticides. 2019 , 38, 67-85	37
280	Chitosan Acetylation Degree Influences the Physical Properties of Polysaccharide Nanoparticles: Implication for the Innate Immune Cells Response. 2019 , 11, 9794-9803	30

279	Synthesis and Characterization of Pectin-Chitosan as Candidate Materials for Slow Release System. 2019 , 617, 012002		0
278	Emerging Biomedical Applications of Algal Polysaccharides. 2019 , 25, 1335-1344		14
277	. 2019,		12
276	Encapsulation technologies for polyphenol-loaded microparticles in food industry. 2019 , 335-367		5
275	The Influence of Chitosan Concentration on Polyelectrolytes Complexes (PECs) of Chitosan [] Poly-2-Acrylamido-2-Methylprophane Sulfonic Acid (PAMPS) as Potential Drug Carrier in Pulmonary Delivery Application. 2019 , 547, 012028		1
274	Controlled Synthesis of Triangular Silver Nanoplates by Gelatinthitosan Mixture and the Influence of Their Shape on Antibacterial Activity. 2019 , 7, 873		6
273	Chitosan-Based Drug Delivery Systems. 2019 , 259-289		1
272	Novel hyaluronic acid coated hydrophobically modified chitosan polyelectrolyte complex for the delivery of doxorubicin. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 254-261	7.9	20
271	The role of intermolecular interactions on the encapsulation of human insulin into the chitosan and cholesterol-grafted chitosan polymers. <i>Carbohydrate Polymers</i> , 2019 , 208, 345-355	10.3	10
270	Biocompatible polymeric nanoparticles with exceptional gastrointestinal stability as oral delivery vehicles for lipophilic bioactives. <i>Food Hydrocolloids</i> , 2019 , 89, 386-395	10.6	30
269	Chitosan scaffolds for cartilage regeneration: influence of different ionic crosslinkers on biomaterial properties. 2019 , 68, 936-945		12
268	Chitosan-Based Polyelectrolyte Complex Hydrogels for Biomedical Applications. 2019 , 1695-1725		2
267	Multidrug delivery system based on polysaccharide nanocomplexes for controlled delivery of a combination of chemotherapeutics. 2019 , 50, 90-98		5
266	Folate-targeted nanostructured chitosan/chondroitin sulfate complex carriers for enhanced delivery of bortezomib to colorectal cancer cells. 2019 , 14, 40-51		47
265	Development of sustainable carrier in thermosensitive hydrogel based on chitosan/alginate nanoparticles for in situ delivery system. 2019 , 40, 2187-2196		9
264	Potential of Chitosan and its derivatives for controlled drug release applications IA review. 2019 , 49, 642-659		64
263	Lycium barbarum polysaccharides grafted with doxorubicin: An efficient pH-responsive anticancer drug delivery system. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 964-970	7.9	13
262	Synthesize of alginate/chitosan bilayer nanocarrier by CCD-RSM guided co-axial electrospray: A novel and versatile approach. <i>Food Research International</i> , 2019 , 116, 1163-1172	7	15

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261	Fabrication of chitosan-alginate polyelectrolyte complexed hydrogel for controlled release of cilnidipine: a statistical design approach. 2020 , 35, 697-707	9
260	Elucidation of the Controlled-Release Behavior of Metoprolol Succinate from Directly Compressed Xanthan Gum/Chitosan Polymers: Computational and Experimental Studies. <i>ACS Biomaterials</i> 5.5 <i>Science and Engineering</i> , 2020 , 6, 21-37	12
259	Recent advances on magnetic biosorbents and their applications for water treatment. 2020 , 18, 151-164	21
258	Construction of self-assembled polyelectrolyte complex hydrogel based on oppositely charged polysaccharides for sustained delivery of green tea polyphenols. 2020 , 306, 125632	42
257	Iron-rich chitosan-pectin colloidal microparticles laden with ora-pro-nobis (Pereskia aculeata Miller) extract. <i>Food Hydrocolloids</i> , 2020 , 98, 105313	9
256	Artificial neural network for modeling formulation and drug permeation of topical patches containing diclofenac sodium. 2020 , 10, 168-184	9
255	Physical hydrogels based on natural polymers. 2020 , 51-89	5
254	Photoluminescence in non-conjugated polyelectrolyte films containing 7-hydroxy-flavylium cation. 2020 , 77, 5051-5063	1
253	Targeted anti-inflammatory peptide delivery in injured endothelial cells using dermatan sulfate/chitosan nanomaterials. <i>Carbohydrate Polymers</i> , 2020 , 230, 115610	7
252	Saccharomyces cerevisae microfiltration performance of polycarbonate membranes containing chitosan-based polyelectrolyte complexes. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48483	
251	Comparative studies on the structural composition, surface/interface activity and application potential of rhamnolipids produced by Pseudomonas aeruginosa using hydrophobic or hydrophilic substrates. 2020 , 295, 122269	21
250	Rapid one-step preparation of hierarchical porous carbon from chitosan-based hydrogel for high-rate supercapacitors: The effect of gelling agent concentration. <i>International Journal of 7.9 Biological Macromolecules</i> , 2020 , 146, 453-461	9
249	Synthesis, structure, and properties of N-2-hydroxylpropyl-3-trimethylammonium-O-carboxymethyl chitosan derivatives. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 568-577	6
248	Chitosan nanoparticles loading oxaliplatin as a mucoadhesive topical treatment of oral tumors: Iontophoresis further enhances drug delivery ex vivo. <i>International Journal of Biological</i> 7.9 <i>Macromolecules</i> , 2020 , 154, 1265-1275	35
247	Current status and future of chitosan in drug and vaccine delivery. 2020 , 147, 104452	7
246	Sodium alginate/poly(4-vinylpyridine) polyelectrolyte multilayer films: Preparation, characterization and ciprofloxacin HCl release. <i>International Journal of Biological Macromolecules</i> , 7.9 2020 , 147, 809-820	12
245	Molecular dynamics study on loading mechanism of chitosan into boron nitride nanotubes. 2020 , 297, 111753	3
244	Nano micelles of cellulose-graft-poly (l-lactic acid) anchored with epithelial cell adhesion antibody for enhanced drug loading and anti-tumor effect. 2020 , 22, 100764	9

243	Recent advance in delivery system and tissue engineering applications of chondroitin sulfate. <i>Carbohydrate Polymers</i> , 2020 , 230, 115650	10.3	42
242	Diethylaminoethyl chitosan-hyaluronic acid polyelectrolyte complexes. <i>International Journal of Biological Macromolecules</i> , 2020 , 146, 1161-1168	7.9	13
241	Design of chitosan-based particle systems: A review of the physicochemical foundations for tailored properties. <i>Carbohydrate Polymers</i> , 2020 , 250, 116968	10.3	14
240	Exopolysaccharides from bacteria and fungi: current status and perspectives in Africa. 2020 , 6, e04205		19
239	Challenges in developing of chitosan Based polyelectrolyte complexes as a platform for mucosal and skin drug delivery. 2020 , 140, 110020		20
238	Effect of graphene oxide content on the tensile properties and swelling ratio of chitosan/xanthan gum/graphene oxide hydrogel films. 2020 , 706, 72-78		O
237	Microbial Exopolysaccharides as Drug Carriers. 2020 , 12,		7
236	Influence of the xanthan gum as a crosslinking agent on the physicochemical properties of chitosan microparticles containing green coffee extract. 2020 , 29, 101782		2
235	Technologies and Formulation Design of Polysaccharide-Based Hydrogels for Drug Delivery. 2020 , 25,		21
234	Advances in chitosan-based hydrogels: Evolution from covalently crosslinked systems to ionotropically crosslinked superabsorbents. 2020 , 149, 104517		28
233	Microscopic studies on chitin and chitosan-based interpenetrating polymer networks, gels, blends, composites, and nanocomposites. 2020 , 95-138		3
232	Carrageenan: Drug Delivery Systems and Other Biomedical Applications. <i>Marine Drugs</i> , 2020 , 18,	6	57
231	Designed sponges based on chitosan and cyclodextrin polymer for a local release of ciprofloxacin in diabetic foot infections. 2020 , 587, 119677		9
230	Xanthan gum derivatives: review of synthesis, properties and diverse applications 2020 , 10, 27103-271	36	49
229	Cationic dye adsorption by phosphomolybdate nanoclusters immobilised on polyelectrolyte matrix. 2020 , 132, 1		3
228	Characterization pH, stability of emulsion, and viscosity canola oil (Brassicca napus L.) emulsion (O/W). 2020 , 575, 012007		
227	Removal of Mercury Ions from Aqueous Solutions by Crosslinked Chitosan-based Adsorbents: A Mini Review. 2020 , 20, 1220-1234		13
226	Study of pH-Responsive and Polyethylene Glycol-Modified Doxorubicin-Loaded Mesoporous Silica Nanoparticles for Drug Delivery. 2020 , 20, 5997-6006		4

(2020-2020)

225	Characterization of Chitosan/Hyaluronan Complex Coacervates Assembled by Varying Polymers Weight Ratio and Chitosan Physical-Chemical Composition. 2020 , 4, 12		4
224	Rational design and latest advances of codelivery systems for cancer therapy. 2020 , 7, 100056		22
223	Supramolecular polyelectrolyte complexes based on cyclodextrin-grafted chitosan and carrageenan for controlled drug release. <i>Carbohydrate Polymers</i> , 2020 , 245, 116592	10.3	12
222	Recent advances in polymeric drug delivery systems. 2020 , 24, 12		112
221	Polyelectrolyte Complexes of Partially Betainated Chitosan Derivatives Soluble in Weakly Alkaline Media. 2020 , 62, 162-173		2
220	Studies on the Drug Loading and Release Profiles of Degradable Chitosan-Based Multilayer Films for Anticancer Treatment. 2020 , 12,		13
219	On the Formation and Stability of Chitosan/Hyaluronan-Based Complex Coacervates. 2020 , 25,		2
218	Chitosan biomaterials application in dentistry. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 956-974	7.9	41
217	Re-entrant swelling and redissolution of polyelectrolytes arises from an increased electrostatic decay length at high salt concentrations. 2020 , 579, 369-378		5
216	Processing techniques of chitosan-based interpenetrating polymer networks, gels, blends, composites and nanocomposites. 2020 , 61-93		3
215	Biopolymer-based films and membranes as wound dressings. 2020 , 165-194		7
214	Production and Characterization of Chitosan-Polyanion Nanoparticles by Polyelectrolyte Complexation Assisted by High-Intensity Sonication for the Modified Release of Methotrexate. <i>Pharmaceuticals</i> , 2020 , 13,	5.2	13
213	High internal phase emulsions (HIPE) using pea protein and different polysaccharides as stabilizers. <i>Food Hydrocolloids</i> , 2020 , 105, 105775	10.6	31
212	Chitosan-based hydrogel beads: Preparations, modifications and applications in food and agriculture sectors - A review. <i>International Journal of Biological Macromolecules</i> , 2020 , 152, 437-448	7.9	142
211	Chitosan Composites in Packaging Industry-Current Trends and Future Challenges. 2020 , 12,		56
210	Pectin and Zinc Alginate: The Right Inner/Outer Polymer Combination for Core-Shell Drug Delivery Systems. 2020 , 12,		12
209	Study of chitosan/xanthan gum polyelectrolyte complexes formation, solid state and influence on ibuprofen release kinetics. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 942-955	7.9	31
208	Enzyme immobilization on porous chitosan hydrogel capsules formed by anionic surfactant gelation. 2020 , 42, 845-852		5

207	Formation of self-assembled polyelectrolyte complex hydrogel derived from salecan and chitosan for sustained release of Vitamin C. <i>Carbohydrate Polymers</i> , 2020 , 234, 115920	10.3	64
206	Edible alginate/chitosan-based nanocomposite microspheres as delivery vehicles of omega-3 rich oils. <i>Carbohydrate Polymers</i> , 2020 , 239, 116201	10.3	7
205	Carbohydrate and protein based biopolymeric nanoparticles: Current status and biotechnological applications. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 390-412	7.9	52
204	Electrospun chitosan membranes containing bioactive and therapeutic agents for enhanced wound healing. <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 153-170	7.9	81
203	Encapsulation of Phloretin in a Ternary Nanocomplex Prepared with Phytoglycogen-Caseinate-Pectin via Electrostatic Interactions and Chemical Cross-Linking. 2020 , 68, 13221-13230		8
202	Rheological properties of sodium alginate solutions in the presence of added salt: an application of Kulicke equation. 2020 , 59, 365-374		18
201	Chitosan mediated 5-Fluorouracil functionalized silica nanoparticle from rice husk for anticancer activity. <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 969-980	7.9	13
200	Novel alginate-chitosan aerogel fibres for potential wound healing applications. <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 773-782	7.9	38
199	Gentamicin decorated phosphatidylcholine-chitosan nanoparticles against biofilms and intracellular bacteria. <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 640-647	7.9	11
198	Polysaccharides. 2021 ,		6
198	Polysaccharides. 2021, Adsorption of caffeic acid on chitosan powder. 2021, 78, 2139-2154		6
			2
197	Adsorption of caffeic acid on chitosan powder. 2021 , 78, 2139-2154 Implementation and characterization of calcium-free gelling oral reconstituted suspension for	7.9	
197 196	Adsorption of caffeic acid on chitosan powder. 2021 , 78, 2139-2154 Implementation and characterization of calcium-free gelling oral reconstituted suspension for potential overweight treatment. 2021 , 47, 36-50 Obtaining chitin, chitosan and their melanin complexes from insects. <i>International Journal of</i>	7.9	2
197 196 195	Adsorption of caffeic acid on chitosan powder. 2021 , 78, 2139-2154 Implementation and characterization of calcium-free gelling oral reconstituted suspension for potential overweight treatment. 2021 , 47, 36-50 Obtaining chitin, chitosan and their melanin complexes from insects. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 1319-1328	7.9	2 21
197 196 195	Adsorption of caffeic acid on chitosan powder. 2021, 78, 2139-2154 Implementation and characterization of calcium-free gelling oral reconstituted suspension for potential overweight treatment. 2021, 47, 36-50 Obtaining chitin, chitosan and their melanin complexes from insects. International Journal of Biological Macromolecules, 2021, 167, 1319-1328 Chitosan-based smart hybrid materials: a physico-chemical perspective. 2021, 9, 594-611 Codelivery of STAT3 and PD-L1 siRNA by hyaluronate-TAT trimethyl/thiolated chitosan	7.9	2 21 40
197 196 195 194	Adsorption of caffeic acid on chitosan powder. 2021, 78, 2139-2154 Implementation and characterization of calcium-free gelling oral reconstituted suspension for potential overweight treatment. 2021, 47, 36-50 Obtaining chitin, chitosan and their melanin complexes from insects. International Journal of Biological Macromolecules, 2021, 167, 1319-1328 Chitosan-based smart hybrid materials: a physico-chemical perspective. 2021, 9, 594-611 Codelivery of STAT3 and PD-L1 siRNA by hyaluronate-TAT trimethyl/thiolated chitosan nanoparticles suppresses cancer progression in tumor-bearing mice. 2021, 266, 118847	7.9	2 21 40

189	Synthesis of quercetin-encapsulated alginate beads with their antioxidant and release kinetic studies. 2021 , 58, 22-31		5
188	Natural Polymers in Pharmaceutical Nanotechnology. 2021 , 163-215		1
187	Functionalized biopolymer-based drug delivery systems: current status and future perspectives. 2021 , 723-746		
186	Chitosan-based polyelectrolyte complexes in biomedical applications. 2021 , 115-154		1
185	Polyelectrolyte Complex-Based Ionically Gelled Biopolymeric Systems for Sustained Drug Release. 2021 , 105-120		
184	Biogenic Synthesis of Nanomaterials Toward Environment-Friendly Approach. 2021 , 121-151		
183	Polysaccharides for Drug Delivery: The Development of Polysaccharide-Based Materials and Glycopolymer to Improve Drug Delivery Applications. 2021 , 34-50		
182	Xanthan-based nanomaterials for drug delivery applications. 2021 , 275-292		
181	Eco-Friendly and Economic, Adsorptive Removal of Cationic and Anionic Dyes by Bio-Based Karaya Gum-Chitosan Sponge. 2021 , 13,		15
180	Preparation and Characterization of Biopolymeric Nanoparticles as Drug Delivery Vehicles. 2021 , 1659-	1680	
179	Thermoresponsive polysaccharides with tunable thermoresponsive properties via functionalisation with alkylamide groups. <i>Carbohydrate Polymers</i> , 2021 , 254, 117280	10.3	5
179 178		10.3	5
	with alkylamide groups. <i>Carbohydrate Polymers</i> , 2021 , 254, 117280 Efficient Prediction of In Vitro Piroxicam Release and Diffusion From Topical Films Based on Biopolymers Using Deep Learning Models and Generative Adversarial Networks. 2021 , 110, 2531-2543 Preparation of pH-tunable polyelectrolyte complexes of alginate sodium salt and	10.3	
178	with alkylamide groups. <i>Carbohydrate Polymers</i> , 2021 , 254, 117280 Efficient Prediction of In Vitro Piroxicam Release and Diffusion From Topical Films Based on Biopolymers Using Deep Learning Models and Generative Adversarial Networks. 2021 , 110, 2531-2543 Preparation of pH-tunable polyelectrolyte complexes of alginate sodium salt and N-[(2-hydroxy-3-trimethylammonium) propyl] chitosan chloride. <i>Journal of Polymer Research</i> , 2021 ,		4
178	with alkylamide groups. <i>Carbohydrate Polymers</i> , 2021 , 254, 117280 Efficient Prediction of In Vitro Piroxicam Release and Diffusion From Topical Films Based on Biopolymers Using Deep Learning Models and Generative Adversarial Networks. 2021 , 110, 2531-2543 Preparation of pH-tunable polyelectrolyte complexes of alginate sodium salt and N-[(2-hydroxy-3-trimethylammonium) propyl] chitosan chloride. <i>Journal of Polymer Research</i> , 2021 , 28, 1 Chondrogenesis of human amniotic fluid stem cells in Chitosan-Xanthan scaffold for cartilage		1
178 177 176	Efficient Prediction of In Vitro Piroxicam Release and Diffusion From Topical Films Based on Biopolymers Using Deep Learning Models and Generative Adversarial Networks. 2021, 110, 2531-2543 Preparation of pH-tunable polyelectrolyte complexes of alginate sodium salt and N-[(2-hydroxy-3-trimethylammonium) propyl] chitosan chloride. <i>Journal of Polymer Research</i> , 2021, 28, 1 Chondrogenesis of human amniotic fluid stem cells in Chitosan-Xanthan scaffold for cartilage tissue engineering. 2021, 11, 3063 Facile preparation of agaraldehyde chitosan-based composite beads as effectual adsorbent	2.7	1
178 177 176	Efficient Prediction of In Vitro Piroxicam Release and Diffusion From Topical Films Based on Biopolymers Using Deep Learning Models and Generative Adversarial Networks. 2021, 110, 2531-2543 Preparation of pH-tunable polyelectrolyte complexes of alginate sodium salt and N-[(2-hydroxy-3-trimethylammonium) propyl] chitosan chloride. <i>Journal of Polymer Research</i> , 2021, 28, 1 Chondrogenesis of human amniotic fluid stem cells in Chitosan-Xanthan scaffold for cartilage tissue engineering. 2021, 11, 3063 Facile preparation of agaraldehyde chitosan-based composite beads as effectual adsorbent especially towards amido black. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50716	2.7	4 1

171	Polysaccharides-based bio-nanostructures and their potential food applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 176, 540-557	7.9	30
170	Advanced applications of chitosan-based hydrogels: From biosensors to intelligent food packaging system. 2021 , 110, 822-832		25
169	Thermal Properties and Structural Features of Multilayer Films Based on Chitosan and Anionic Polysaccharides. 2021 , 11,		6
168	Different strategies for the lipase immobilization on the chitosan based supports and their applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 179, 170-195	7.9	27
167	Nanoencapsulation of anthocyanins from blackberry (Rubus spp.) through pectin and lysozyme self-assembling. <i>Food Hydrocolloids</i> , 2021 , 114, 106563	10.6	7
166	Chitosan-based nanocarriers for encapsulation and delivery of curcumin: A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 179, 125-135	7.9	29
165	A novel encapsulation of Streptomyces fulvissimus Uts22 by spray drying and its biocontrol efficiency against Gaeumannomyces graminis, the causal agent of take-all disease in wheat. 2021 , 77, 4357-4364		10
164	Current-status and applications of polysaccharides in drug delivery systems. 2021 , 42, 100418		17
163	Influence of replacing oregano essential oil by ground oregano leaves on chitosan/alginate-based dressings properties. <i>International Journal of Biological Macromolecules</i> , 2021 , 181, 51-59	7.9	6
162	The Potential Role of Polyelectrolyte Complex Nanoparticles Based on Cashew Gum, Tripolyphosphate and Chitosan for the Loading of Insulin. 2021 , 2, 107-116		4
161	Co-delivery of artemether and piperine via core-shell microparticles for enhanced sustained release. 2021 , 63, 102505		2
160	Cationic Polyelectrolyte Nanocapsules of Moxifloxacin for Microbial Keratitis Therapy: Development, Characterization, and Pharmacodynamic Study. 2021 , 22, 195		
159	Improving the sustainable performance of Biopolymers using nanotechnology. 1-31		0
158	Recent Advancement of Biopolymers and Their Potential Biomedical Applications. 1		7
157	Low-energy electron beam sterilization of solid alginate and chitosan, and their polyelectrolyte complexes. <i>Carbohydrate Polymers</i> , 2021 , 261, 117578	10.3	1
156	High-strength and low-swelling chitosan/cellulose microspheres as a high-efficiency adsorbent for dye removal. 2021 , 28, 9323-9333		1
155	Chitosan, Chitooligosaccharides and Their Polyphenol Conjugates: Preparation, Bioactivities, Functionalities and Applications in Food Systems. 1-23		8
154	Chitosan-based blends for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 1818-1850	7.9	25

153	Naturally Occurring Polyelectrolytes and Their Use for the Development of Complex-Based Mucoadhesive Drug Delivery Systems: An Overview. 2021 , 13,		5
152	Recent advances in dextran-based drug delivery systems: From fabrication strategies to applications. <i>Carbohydrate Polymers</i> , 2021 , 264, 117999	10.3	39
151	Recent updates in the polysaccharides-based Nano-biocarriers for drugs delivery and its application in diseases treatment: A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 115-128	7.9	6
150	Polyelectrolyte complexes of chitosan and sodium alginate as a drug delivery system for diclofenac sodium.		2
149	Carvacryl acetate nanoencapsulated with chitosan/chichlgum exhibits reduced toxicity in mice and decreases the fecal egg count of sheep infected with gastrointestinal nematodes. 2021 , 1-6		O
148	Pectin in biomedical and drug delivery applications: A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 185, 49-65	7.9	32
147	Novel cationic chitosan-like bioflocculant from Citrobacter youngae GTC 01314 for the treatment of kaolin suspension and activated sludge. 2021 , 9, 105297		2
146	Electrophoretically Deposited Chitosan/Eudragit E 100/AgNPs Composite Coatings on Titanium Substrate as a Silver Release System. 2021 , 14,		3
145	A systematic study to unravel the potential of using polysaccharides based organic-nanoparticles versus hybrid-nanoparticles for pesticide delivery. 2021 , 32,		2
144	Relationship between the structure of a highly regular fucoidan from Fucus evanescens and its ability to form nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2021 , 185, 679-687	7.9	4
143	A Novel Chitosan Nanosponge as a Vehicle for Transepidermal Drug Delivery. 2021 , 13,		1
142	Quercetin delivery characteristics of chitosan nanoparticles prepared with different molecular weight polyanion cross-linkers. <i>Carbohydrate Polymers</i> , 2021 , 267, 118157	10.3	5
141	Improving Physicochemical Stability of Quercetin-Loaded Hollow Zein Particles with Chitosan/Pectin Complex Coating. 2021 , 10,		1
140	Methacrylated Gellan Gum/Poly-l-lysine Polyelectrolyte Complex Beads for Cell-Based Therapies. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4898-4913	5.5	1
139	Fabrication of Eco-Friendly Polyelectrolyte Membranes Based on Sulfonate Grafted Sodium Alginate for Drug Delivery, Toxic Metal Ion Removal and Fuel Cell Applications. 2021 , 13,		1
138	In vitro/vivo antitumor study of modified-chitosan/carboxymethyl chitosan "boosted" charge-reversal nanoformulation. <i>Carbohydrate Polymers</i> , 2021 , 269, 118268	10.3	5
137	New insights into physicochemical aspects involved in the formation of polyelectrolyte complexes based on chitosan and dextran sulfate. <i>Carbohydrate Polymers</i> , 2021 , 271, 118436	10.3	4
136	Polyelectrolyte complexes of hyaluronic acid and diethylaminoethyl dextran: Formation, stability and hydrophobicity. 2021 , 629, 127485		2

135	A review on the preparation and characterization of chitosan-clay nanocomposite films and coatings for food packaging applications. 2021 , 2, 100102		6
134	Polyelectrolyte complex beads of carboxymethylcellulose and chitosan: The controlled formation and improved properties. 2021 , 2, 100100		2
133	Two birds with one stone: Interfacial controls and pH response for long-term and high-efficiency Cu2O antibacterial materials. 2022 , 427, 131734		7
132	Crystalline polysaccharides: A review. <i>Carbohydrate Polymers</i> , 2022 , 275, 118624	3	8
131	Microencapsulation of functional ovalbumin and bovine serum albumin with polylysine-alginate complex for sustained protein vehicle's development. 2022 , 368, 130902		2
130	DNA-Chitosan Hydrogels: Formation, Properties, and Functionalization with Catalytic Nanoparticles 2021 , 4, 1823-1832		7
129	Ionotropic Gelation of Chitosan Flat Structures and Potential Applications. 2021, 26,		10
128	Polysaccharides; Classification, Chemical Properties, and Future Perspective Applications in Fields of Pharmacology and Biological Medicine (A Review of Current Applications and Upcoming Potentialities). 2021 , 29, 1-13		41
127	Research Progress in Controlled Release of Pesticides from Natural Polysaccharides. 2021 , 09, 62-66		
126	Carbohydrate Modified Non-Metallic Nanomaterials and Their Application Against Infectious Diseases. 2021 , 406-432		
125	Chitosan microcapsules: Methods of the production and use in the textile finishing. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50482		13
124	Ocular Delivery of Polyphenols: Meeting the Unmet Needs. 2021 , 26,		2
123	Chitosan-based Interpenetrating Polymeric Network Systems for Sustained Drug Release. 183-208		7
122	Pharmaceutical Delivery Systems Composed of Chitosan. 285-308		1
121	Food Biopackaging Based on Chitosan. 2019 , 2057-2083		2
120	Chitosan-Based Hydrogels for Drug Delivery. 2019 , 163-190		3
119	The Use of Nano-Polysaccharides in Biomedical Applications. 2019 , 171-219		1
118	Sustainable starch-based barrier coatings for packaging applications. <i>Food Hydrocolloids</i> , 2020 , 103, 105696	6	22

117	Microfluidics and BIO-encapsulation for drug- and cell-therapy. 2017,	2
116	Repurposing staples for viruses: applying peptide design to RSV prophylaxis. 2014 , 124, 1889-91	2
115	A Colon Targeted Delivery System for Resveratrol Enriching in pH Responsive-Model. 2017 , 23, 42-49	8
114	Macroalgal Polysaccharides in Biomimetic Nanodelivery Systems. 2019 , 25, 1265-1289	3
113	Polymer - Metal Nanocomplexes Based Delivery System: A Boon for Agriculture Revolution. 2020 , 20, 1009-1028	2
112	Chitosan-induced Synergy for Extended Antimicrobial Potency and Enhanced In Vitro Drug Release of Free Base Ciprofloxacin Nanoplexes. 2020 , 8, 33-53	4
111	Chitosan-Coated Alginate Microcapsules Loaded with Herbal galactagogue Extract: Formulation Optimization and Characterization. 2019 , 18, 1180-1195	6
110	Biological effects induced by Gadolinium nanoparticles on Lymphocyte A20 cell line. 2017 , 1, 57-64	2
109	Development of Polyelectrolyte Complex Nanoparticles-PECNs Loaded with Ampicillin by Means of Polyelectrolyte Complexation and Ultra-High Pressure Homogenization (UHPH). 2020 , 12,	11
108	Evaluation of Design and Fabrication of Food-Grade Nanofibers from Chitosan-Gelatin for Nanoencapsulation of Stigmasterol Using the Electrospinning Method. 2021 , 11, 514-521	2
107	Synthesis of Polyelectrolyte Nanoparticles from Anticancer Exopolysaccharide Isolated from Probiotic Lactobacillus acidophilus. 2015 , 10, 193-204	3
106	Encapsulation of Flurbiprofen by Chitosan Using a Spray-Drying Method with Drug Releasing and Molecular Docking. 2017 , 14, 34-39	7
105	Optimization of microencapsulation of metronidazole in alginate microbeads for purpose of controlled release. 1	
104	Preparation of MSZ Hydrogel and Its Treatment of Colitis. 2021 , 12, 706401	1
103	Preparation and evaluation of polymeric beads composed of Chitosan Cellan Gum Cum Cum Cum Cum Cum Cum Cum Cum Cum C	1
102	Mussel-Inspired Chemistry: A Promising Strategy for Natural Polysaccharides in Biomedical Applications. 2021 , 101472	7
101	A Review of Gum Hydrocolloid Polyelectrolyte Complexes (PEC) for Biomedical Applications: Their Properties and Drug Delivery Studies. 2021 , 9, 1796	2
100	Fabrication of Polyelectrolyte Membranes of Pectin Graft-Copolymers with PVA and Their Composites with Phosphomolybdic Acid for Drug Delivery, Toxic Metal Ion Removal, and Fuel Cell Applications. 2021 , 11,	1

99	Modified Polysaccharides as Drug Delivery. 2014 , 1-26		1
98	Sustainable Biopolymers in Textiles: An Overview. 2018 , 1-27		2
97	Activated Carbon/Chitosan Porous Beads as a High Efficiency Adsorbent for Cationic Dye Removal: Isotherm, Kinetic, and Thermodynamic Studies. 2018 , 08, 816-827		
96	Study of the effect of a number of natural and modified polysaccharides on the bioavailability and pharmacokinetic profile of nitazole when administered orally to rabbits. 2019 , 11(26), 566-576		
95	Biocompatible non-covalent complexes of chitosan and different polymers: Characteristics and application in drug delivery. 2020 , 70, 173-197		2
94	Polysaccharide-based polyelectrolyte complex systems for biomedical uses. 2020 , 151-174		2
93	Characterization of chitosan/xanthan polyelectrolyte complex carriers. 2020,		
92	Evaluation of the of a numder of natural and modified polysaccharides on the microviscosity of rat erythrocyte membranes using the spin probe method. 2020 , 12(27), 327-336		
91	Topical Ocular Delivery of Nanocarriers: A Feasible Choice for Glaucoma Management. 2020 , 26, 5518-553	32	2
90	Self-healing polysaccharide-based injectable hydrogels with antibacterial activity for wound healing. <i>Carbohydrate Polymers</i> , 2022 , 275, 118770	0.3	14
90 89		0.3	14
	healing. Carbohydrate Polymers, 2022 , 275, 118770	0.3	
89	healing. <i>Carbohydrate Polymers</i> , 2022 , 275, 118770 Chitosan-based drug delivery systems in cancer therapeutics. 2022 , 159-193 Preparacifi de pelfiulas mucoadhesivas de complejos de polielectr[itos para la liberacifi de		
89 88	healing. Carbohydrate Polymers, 2022, 275, 118770 Chitosan-based drug delivery systems in cancer therapeutics. 2022, 159-193 Preparacifi de pelūulas mucoadhesivas de complejos de polielectrūtos para la liberacifi de diacetato de clorhexidina. 2020, 3, 10-22		1
89 88 87	healing. Carbohydrate Polymers, 2022, 275, 118770 Chitosan-based drug delivery systems in cancer therapeutics. 2022, 159-193 Preparacifi de pelūlas mucoadhesivas de complejos de polielectrūtos para la liberacifi de diacetato de clorhexidina. 2020, 3, 10-22 Expanding the Biocatalytic Scope of Enzyme-Loaded Polymeric Hydrogels. Gels, 2021, 7,		1
89 88 87 86	Chitosan-based drug delivery systems in cancer therapeutics. 2022, 159-193 Preparacifi de pelūlas mucoadhesivas de complejos de polielectrūtos para la liberaciā de diacetato de clorhexidina. 2020, 3, 10-22 Expanding the Biocatalytic Scope of Enzyme-Loaded Polymeric Hydrogels. <i>Gels</i> , 2021, 7, Preparation and Characterization of Biopolymeric Nanoparticles as Drug Delivery Vehicles. 225-246 Evaluation of Factors Affecting Size and Size Distribution of Chitosan-Electrosprayed		1
89 88 87 86 85	Chitosan-based drug delivery systems in cancer therapeutics. 2022, 159-193 Preparacifi de pelfulas mucoadhesivas de complejos de polielectrfiltos para la liberacifi de diacetato de clorhexidina. 2020, 3, 10-22 Expanding the Biocatalytic Scope of Enzyme-Loaded Polymeric Hydrogels. <i>Gels</i> , 2021, 7, Preparation and Characterization of Biopolymeric Nanoparticles as Drug Delivery Vehicles. 225-246 Evaluation of Factors Affecting Size and Size Distribution of Chitosan-Electrosprayed Nanoparticles. 2017, 9, 126-132 An Insight into the Polymeric Nanoparticles Applications in Diabetes Diagnosis and Treatment.		1

(2021-2021)

81	Physicochemical and conductivity studies of chitosan-tapioca flour-LiBF4 gel polymer electrolytes. 2021 , 3, 100055		2
80	Analysis of the formation mechanism of polyion complexes of polysaccharides by molecular dynamics simulation with oligosaccharides.		2
79	Cytocompatible drug delivery hydrogels based on carboxymethylagarose/chitosan pH-responsive polyelectrolyte complexes <i>International Journal of Biological Macromolecules</i> , 2021 , 199, 96-96	7.9	2
78	Technological strategies applied for rosmarinic acid delivery through different routes 🛭 review. 2022 , 68, 103054		O
77	Electrostatically self-assembled filamentous sodium alginate/Epolylysine fiber with antibacterial, bioadhesion and biocompatible in suturing wound <i>International Journal of Biological Macromolecules</i> , 2021 , 200, 1-1	7.9	О
76	Casein-dextran complexes subjected to microfiltration: Colloidal properties and their corresponding processing behaviors. 2022 , 320, 110913		Ο
75	Strategies to Improve the Barrier and Mechanical Properties of Pectin Films for Food Packaging: Comparing Nanocomposites with Bilayers. 2022 , 12, 108		2
74	Psyllium Polysaccharide-Based hydrogels as smart Biomaterials: Review. 2022 ,		
73	Polysaccharide-based blend films as a promising material for food packaging applications: physicochemical properties. 2022 , 31, 503		2
72	Pectin-based micro- and nanomaterials in drug delivery. 2022 , 97-125		
72 71	Pectin-based micro- and nanomaterials in drug delivery. 2022 , 97-125 Micro- and nanoscale drug delivery systems based on xanthan gum hydrogels. 2022 , 35-76		
			O
71	Micro- and nanoscale drug delivery systems based on xanthan gum hydrogels. 2022 , 35-76 Curcumin-Loaded pH-Sensitive Biopolymer Hydrogels: Fabrication, Characterization, and Release		0
71 70	Micro- and nanoscale drug delivery systems based on xanthan gum hydrogels. 2022 , 35-76 Curcumin-Loaded pH-Sensitive Biopolymer Hydrogels: Fabrication, Characterization, and Release Properties. 2022 , 2, 512-520 Nanotechnology as a Tool to Mitigate the Effects of Intestinal Microbiota on Metabolization of		
71 70 69	Micro- and nanoscale drug delivery systems based on xanthan gum hydrogels. 2022, 35-76 Curcumin-Loaded pH-Sensitive Biopolymer Hydrogels: Fabrication, Characterization, and Release Properties. 2022, 2, 512-520 Nanotechnology as a Tool to Mitigate the Effects of Intestinal Microbiota on Metabolization of Anthocyanins 2022, 11, Preparation of Thymus vulgaris (L.) essential oil nanoemulsion and its chitosan encapsulation for		1
71 70 69 68	Micro- and nanoscale drug delivery systems based on xanthan gum hydrogels. 2022, 35-76 Curcumin-Loaded pH-Sensitive Biopolymer Hydrogels: Fabrication, Characterization, and Release Properties. 2022, 2, 512-520 Nanotechnology as a Tool to Mitigate the Effects of Intestinal Microbiota on Metabolization of Anthocyanins 2022, 11, Preparation of Thymus vulgaris (L.) essential oil nanoemulsion and its chitosan encapsulation for controlling mosquito vectors 2022, 12, 4335	10.3	1 0
71 70 69 68	Micro- and nanoscale drug delivery systems based on xanthan gum hydrogels. 2022, 35-76 Curcumin-Loaded pH-Sensitive Biopolymer Hydrogels: Fabrication, Characterization, and Release Properties. 2022, 2, 512-520 Nanotechnology as a Tool to Mitigate the Effects of Intestinal Microbiota on Metabolization of Anthocyanins 2022, 11, Preparation of Thymus vulgaris (L.) essential oil nanoemulsion and its chitosan encapsulation for controlling mosquito vectors 2022, 12, 4335 The Potential of Polyelectrolyte Multilayer Films as Drug Delivery Materials 2022, 23, Dual cross-linked chitosan/alginate hydrogels prepared by Nb-Tz 'click' reaction for pH responsive	10.3	1 O O

63	Development and In Vitro/In Vivo Evaluation of pH-Sensitive Polymeric Nanoparticles Loaded Hydrogel for the Management of Psoriasis <i>Nanomaterials</i> , 2021 , 11,	5.4	8
62	Comparative Analysis of the Functional Properties of Films Based on Carrageenans, Chitosan, and Their Polyelectrolyte Complexes <i>Marine Drugs</i> , 2021 , 19,	6	O
61	Robust and Highly Stretchable Chitosan Nanofiber/Alumina-Coated Silica/Carboxylated Poly (Vinyl Alcohol)/Borax Composite Hydrogels Constructed by Multiple Crosslinking <i>Gels</i> , 2021 , 8,	4.2	1
60	Novel Chitosan Derivatives and Their Multifaceted Biological Applications. <i>Applied Sciences</i> (Switzerland), 2022 , 12, 3267	2.6	O
59	Oral immunization against ETEC with recombinant protein loaded chitosan Nano-structure and its immunogenicity in comparison with subcutaneous vaccine. <i>Current Nanoscience</i> , 2022 , 18,	1.4	
58	A Comparative Evaluation of Sustained Release of Chlorphenamine Based on a Nanocomposite of Chitosan, Pectin and Montmorillonite. <i>ChemistrySelect</i> , 2022 , 7,	1.8	1
57	Thermo-rheological properties of chitosan hydrogels with hydroxypropyl methylcellulose and methylcellulose <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	3
56	Algal Polysaccharides-Based Nanoparticles for Targeted Drug Delivery Applications. <i>Starch/Staerke</i> , 22	0 <u>0</u> 0314	1
55	Protein-based strategies for fat replacement: Approaching different protein colloidal types, structured systems and food applications. <i>Food Research International</i> , 2022 , 156, 111346	7	1
54	Polysaccharide-Based Transdermal Drug Delivery. <i>Pharmaceuticals</i> , 2022 , 15, 602	5.2	1
53	Triggered and controlled release of bioactives in food applications. <i>Advances in Food and Nutrition Research</i> , 2022 ,	6	0
52	Multiple Roles of Chitosan in Mucosal Drug Delivery: An Updated Review. <i>Marine Drugs</i> , 2022 , 20, 335	6	3
51	Quaternised chitosan composites with in situ precipitated nano calcium phosphate for making bioactive and degradable tissue engineering scaffolds. <i>Journal of Polymer Research</i> , 2022 , 29,	2.7	
50	Smart-design of universally decorated nano-particles for drug delivery applications driven by active transport.		
49	Cellulose nanofiber reinforced starch film with rapid disintegration in marine environments. Journal of Applied Polymer Science,	2.9	O
48	Exploring the Impact of Zwitterions in Discrete Charge Arrangements of Stimuli-Responsive Polyelectrolyte Complexes. <i>ACS Applied Polymer Materials</i> ,	4.3	O
47	Chitosan Microparticles as Promising Tool for Berberine Delivery: Formulation, Characterization and in Vivo Evaluation. <i>SSRN Electronic Journal</i> ,	1	

Effect of molecular weight of polysaccharide on efficient plasmid DNA delivery by 45 polyethylenimine-polysaccharide-Fe (III) complexes. An Oral Polyphenol Formulation to Modulate the Ocular Surface Inflammatory Process and to \circ 44 Improve the Symptomatology Associated with Dry Eye Disease. 2022, 14, 3236 Polyelectrolyte Precipitation: A New Green Chemistry Approach to Recover Value-Added Proteins 43 from Different Sources in a Circular Economy Context. 2022, 27, 5115 A concise review on bio-responsive polymers in targeted drug delivery system. 42 In vitro cytocompatibility assessment and antibacterial effects of quercetin encapsulated O 41 alginate/chitosan nanoparticle. 2022, 219, 304-311 Customizing nano-chitosan for sustainable drug delivery. 2022, 350, 175-192 40 2 Advances in polysaccharide-based nano/microcapsules for biomedical applications: A review. 2022, 39 3 220, 878-891 Polysaccharide-based polyelectrolyte complex systems in drug delivery. 2023, 177-210 38 Fabrication of self-antibacterial chitosan/oxidized starch polyelectrolyte complex sponges for 5 37 controlled delivery of curcumin. 2023, 135, 108147 36 Efficacy of Herbal Extracts-Based Nano-Formulations in Extending Guava Fruit Shelf-Life. 2022, 12, 8630 Sulfolane Crystal Templating: A One-Step and Tunable Polarity Approach for Self-Assembled 35 1 Super-Macroporous Hydrophobic Monoliths. Thymoquinone incorporated chitosan-sodium alginate / psyllium husk derived biopolymeric \circ 34 composite films: A comparative antibacterial and anticancer profile. 2022, 111608 Protective Effect of Composite Hydrogel Based on Hydroxypropyl Trimethylammonium Chloride 33 1 Chitosan on Skin Photodamage. Research Hotspots and Development Trends of Konjac Based on Bibliometric Analysis. 2022, 57, 1363-1376 32 Polysaccharides as natural nanoencapsulants for controlled release of compounds. 2022, 23-39 31 \circ 30 Future Prospects of Biodegradable Polymers with Potential Application in Food Industry. 2022, 327-344 COMPARATIVE STUDIES OF THE CHEMICAL INTERACTION OF GUANIDINE WITH DIALDEHYDE 29 \circ CELLU-LOSE AND PECTIN. 2022, 81-90 Loading and releasing behavior of carboxymethyl cellulose and chitosan complex beads. 2022, 28

27	Coacervation of biopolymers on muscovite surface. 2,	0
26	A novel starch-based microparticle with polyelectrolyte complexes and its slow digestion mechanism. 2023 , 135, 108205	О
25	Chapter 10. Plant and Marine-based Biopolymers for Efficient Nutrient Delivery. 2022, 306-328	0
24	Polyelectrolyte Complexes Between Chitosan and Quince Seed Gum: A Rheological, Structural, and Multiple Dye Adsorption Study.	O
23	Stability improvement of carboxymethyl cellulose/chitosan complex beads by thermal treatment. 2022 ,	0
22	The gel strength and swelling in the gastrointestinal environment of pectin/Etarrageenan gel particles based on pectins with different degrees of methylesterification. 2022 , 33, 104986	1
21	Drug-Loaded Biocompatible Chitosan Polymeric Films with Both Stretchability and Controlled Release for Drug Delivery.	1
20	A Comprehensive Review Based on Chitin and Chitosan Composites. 2023, 15-66	O
19	A Novel Form of Arginine-Chitosan as Nanoparticles Efficient for siRNA Delivery into Mouse Leukemia Cells. 2023 , 24, 1040	0
18	Pectin-based nanoencapsulation strategy to improve the bioavailability of bioactive compounds. 2023 , 229, 11-21	O
17	Plant polysaccharides as suspending agents in pharmaceutical suspensions. 2023, 103-124	О
16	Plant polysaccharides-based multiple-units for oral drug delivery. 2023 , 171-193	O
15	Nanoencapsulated anthocyanins: A new technological approach to increase physical-chemical stability and bioaccessibility. 2023 , 139, 108516	0
14	Oil-in-water emulsion gels stabilized with cellulosic polymers and chitosan: Themorheological and physical-chemical evaluation. 2023 , 236, 123828	O
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