

# CITATION REPORT

## List of articles citing

### Determination of the Mark-Houwink equation for chitosans with different degrees of deacetylation

DOI: 10.1016/0141-8130(91)90027-r

International Journal of Biological Macromolecules,  
1991, 13, 281-5.

Source: <https://exaly.com/paper-pdf/22096629/citation-report.pdf>

Version: 2024-04-17

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
400	Preparation of low-molecular-weight chitosan using phosphoric acid. <i>Carbohydrate Polymers</i> , <b>1993</b> , 20, 279-283	10.3	82
399	Solution properties of chitosans: conformation and chain stiffness of chitosans with different degrees of N-acetylation. <i>Carbohydrate Polymers</i> , <b>1993</b> , 22, 193-201	10.3	204
398	Hydrodynamic characterization of chitosans varying in degree of acetylation. <i>International Journal of Biological Macromolecules</i> , <b>1993</b> , 15, 113-7	7.9	127
397	Characterization of chitosan. Influence of ionic strength and degree of acetylation on chain expansion. <i>International Journal of Biological Macromolecules</i> , <b>1993</b> , 15, 281-5	7.9	416
396	Aggregates in acidic solutions of chitosans detected by static laser light scattering. <i>Carbohydrate Polymers</i> , <b>1994</b> , 25, 13-23	10.3	118
395	Conformational analysis of chitobiose and chitosan. <b>1994</b> , 34, 203-208		28
394	Interactions between liposomes and chitosan. <b>1994</b> , 101, 227-236		112
393	Review of Chitin and Chitosan as Fiber and Film Formers. <b>1994</b> , 34, 375-437		170
392	Viscosity and flow properties of concentrated solutions of chitosan with different degrees of deacetylation. <i>International Journal of Biological Macromolecules</i> , <b>1994</b> , 16, 149-52	7.9	65
391	Degradation of fully water-soluble, partially N-acetylated chitosans with lysozyme. <i>Carbohydrate Polymers</i> , <b>1994</b> , 23, 253-260	10.3	157
390	A dynamic laser light-scattering study of chitosan in aqueous solution. <b>1995</b> , 35, 385-392		59
389	Rheology of polysaccharide systems. <b>1995</b> , 250-494		29
388	Microcapsules/Microspheres Related to Chitosan. <b>1995</b> , 35, 155-180		79
387	Effect of molecular weight of chitosan with the same degree of deacetylation on the thermal, mechanical, and permeability properties of the prepared membrane. <i>Carbohydrate Polymers</i> , <b>1996</b> , 29, 353-358	10.3	172
386	Effects of chain flexibility of chitosan molecules on the preparation, physical, and release characteristics of the prepared capsule. <i>Carbohydrate Polymers</i> , <b>1996</b> , 31, 141-148	10.3	43
385	Preparative and analytical size-exclusion chromatography of chitosans. <i>Carbohydrate Polymers</i> , <b>1996</b> , 31, 253-261	10.3	89
384	Viscosity of Dilute Aqueous Solutions of Hydrophobically Modified Chitosan and Its Unmodified Analogue at Different Conditions of Salt and Surfactant Concentrations. <b>1997</b> , 13, 4948-4952		61

383	Effect of molecular weight and urea on the conformation of chitosan molecules in dilute solutions. <i>International Journal of Biological Macromolecules</i> , <b>1997</b> , 20, 233-40	7.9	104
382	The intrinsic viscosity of biological macromolecules. Progress in measurement, interpretation and application to structure in dilute solution. <b>1997</b> , 68, 207-62		259
381	Effects of ultrasonic conditions and storage in acidic solutions on changes in molecular weight and polydispersity of treated chitosan. <b>1997</b> , 299, 287-294		132
380	Heterogeneous N-deacetylation of chitin in alkaline solution. <b>1997</b> , 303, 327-332		155
379	Gamma irradiation of chitosan. <b>1998</b> , 43, 282-90		83
378	Immobilization of the glycosidases: $\alpha$ -arabinofuranosidase and $\beta$ -D-glucopyranosidase from <i>Aspergillus niger</i> on a chitosan derivative to increase the aroma of wine. Part II. <b>1998</b> , 23, 413-421		22
377	Effect of temperature on the intrinsic viscosity and conformation of chitosans in dilute HCl solution. <i>International Journal of Biological Macromolecules</i> , <b>1998</b> , 23, 135-41	7.9	111
376	Synthesis of a Quaternary Ammonium Derivative of Chitosan and Its Application to a Cotton Antimicrobial Finish. <i>Textile Research Journal</i> , <b>1998</b> , 68, 428-434	1.7	58
375	Polysaccharides: Chitin and Chitosan: Chemistry and Technology of Their Use As Structural Materials. <b>1998</b> , 96-118		55
374	Chitosan. <b>1999</b> , 151-172		5
373	Characterization of association phenomena in aqueous systems of chitosan of different hydrophobicity <sup>1</sup> Part of this paper was presented at the conference on 'Associating Polymer', Fontevraud, France, November 1997.1. <b>1999</b> , 79, 81-103		114
372	Molecular weight determination of 83% degree of decetylation chitosan with non-Gaussian and wide range distribution by high-performance size exclusion chromatography and capillary viscometry. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 71, 1905-1913	2.9	32
371	Improved mechanical properties of chitosan fibers. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 72, 1721-1729		181
370	Effects of ionic strength and pH on the diffusion coefficients and conformation of chitosans molecule in solution. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 73, 2041-2050	2.9	50
369	ChitosanPolyelectrolyte complexation for the preparation of gel beads and controlled release of anticancer drug. I. Effect of phosphorous polyelectrolyte complex and enzymatic hydrolysis of polymer. <b>1999</b> , 74, 1868-1879		89
368	Modification of polyacrylonitrile (PAN) fiber by blending with N-(2-hydroxy)propyl-3-trimethyl-ammonium chitosan chloride. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 74, 2258-2265	2.9	74
367	Storage of partially deacetylated chitosan films. <b>1999</b> , 48, 881-8		30
366	Properties of polyelectrolyte complex films of chitosan and gelatin. <i>Polymer International</i> , <b>1999</b> , 48, 429-432		143

365	Crosslinking of chitosan fibers with dialdehydes: Proposal of a new reaction mechanism. <b>1999</b> , 37, 1079-1094	153
364	Kinetic study of chitosan-tripolyphosphate complex reaction and acid-resistive properties of the chitosan-tripolyphosphate gel beads prepared by in-liquid curing method. <b>1999</b> , 37, 1551-1564	164
363	Investigation of different natural sources of chitin: influence of the source and deacetylation process on the physicochemical characteristics of chitosan. <i>Polymer International</i> , <b>2000</b> , 49, 337-344	3.3 80
362	Urea-induced conformational changes of chitosan molecules and the shift of break point of Mark-Houwink equation by increasing urea concentration. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 75, 452-457	2.9 17
361	Intrinsic viscosity-molecular weight relationship for chitosan. <b>2000</b> , 38, 2591-2598	205
360	Swelling behavior and the release of protein from chitosan-pectin composite particles. <i>Carbohydrate Polymers</i> , <b>2000</b> , 43, 163-169	10.3 81
359	On the stiffness of chitosan hydrochloride in acid-free aqueous solutions. <i>Carbohydrate Polymers</i> , <b>2000</b> , 43, 351-357	10.3 20
358	On the influence of deacetylation process on the physicochemical characteristics of chitosan from squid chitin. <b>2000</b> , 41, 2463-2469	227
357	Formation of positively charged poly(butyl cyanoacrylate) nanoparticles stabilized with chitosan. <b>2000</b> , 278, 285-292	60
356	Effect of dietary chitosans with different viscosity on plasma lipids and lipid peroxidation in rats fed on a diet enriched with cholesterol. <b>2000</b> , 64, 965-71	79
355	Predicted Influence of N-Acetyl Group Content on the Conformational Extension of Chitin and Chitosan Chains. <b>2000</b> , 19, 1269-1284	63
354	Optimal condition for modification of chitosan: a biopolymer for coagulation of colloidal particles. <b>2000</b> , 34, 1057-1062	88
353	Chitin and chitosan. <b>2000</b> , 41, 265-308	16
352	Flocculation of Model Latex Particles by Chitosans of Varying Degrees of Acetylation. <b>2000</b> , 16, 4906-4911	69
351	The Structural Properties of Chitin as It Is Known Today. <b>2001</b> , 73-82	2
350	Kinetics and products of the degradation of chitosan by hydrogen peroxide. <b>2001</b> , 49, 4845-51	194
349	Flocculation of Latex Particles of Varying Surface Charge Densities by Chitosans. <b>2001</b> , 17, 1069-1073	68
348	Hydrophobic chain conjugation at hydroxyl group onto gamma-ray irradiated chitosan. <b>2001</b> , 2, 1038-44	40

347	Characterization of chitosan by steric exclusion chromatography. <b>2001</b> , 42, 09921-09927	139
346	In vitro degradation of chitosan by a commercial enzyme preparation: effect of molecular weight and degree of deacetylation. <b>2001</b> , 22, 1653-8	249
345	Heterogeneous chloroacetylation of chitosan powder in the presence of sodium bicarbonate. <b>2001</b> , 39, 4174-4181	7
344	Chitosan-alginate films prepared with chitosans of different molecular weights. <b>2001</b> , 58, 358-65	137
343	Synthesis and antibacterial activities of quaternary ammonium salt of chitosan. <b>2001</b> , 333, 1-6	519
342	Different cleavage specificities of the dual catalytic domains in chitinase from the hyperthermophilic archaeon Thermococcus kodakaraensis KOD1. <b>2001</b> , 276, 35629-35	75
341	DILUTE SOLUTION PROPERTIES OF CHITOSAN IN PROPIONIC ACID AQUEOUS SOLUTIONS. <b>2002</b> , 39, 837-852	6
340	Heterogeneous Graft Copolymerization of Chitosan Powder with Methyl Acrylate Using TrichloroacetylManganese Carbonyl Co-initiation. <b>2002</b> , 35, 3413-3419	50
339	Chitosan cross-linking with a water-soluble, blocked diisocyanate. 1. Solid state. <b>2002</b> , 3, 1370-4	86
338	Relation between solution properties and degree of acetylation of chitosan: role of aging. <b>2002</b> , 3, 1336-42	93
337	Preparation, water solubility and rheological property of the N-alkylated mono or disaccharide chitosan derivatives. <b>2002</b> , 35, 707-713	66
336	The influence of multivalent phosphate structure on the properties of ionically cross-linked chitosan films for controlled drug release. <b>2002</b> , 54, 235-43	213
335	Antibacterial properties of chitosan in waterborne pathogen. <b>2002</b> , 37, 1379-90	65
334	Free radical degradation of chitosan with potassium persulfate. <i>Polymer Degradation and Stability</i> , <b>2002</b> , 75, 73-83	4.7 171
333	Oxidation and pyrolysis of chitosan as a route for carbon fiber derivation. <i>Carbohydrate Polymers</i> , <b>2002</b> , 50, 165-175	10.3 54
332	Effect of reaction temperature and reaction time on the preparation of low-molecular-weight chitosan using phosphoric acid. <i>Carbohydrate Polymers</i> , <b>2002</b> , 49, 393-396	10.3 95
331	Disentangling alpha from beta mechanical relaxations in the rubber-to-glass transition of high-sugar-chitosan mixtures. <b>2002</b> , 337, 595-605	11
330	Factors affecting the composition of oligosaccharides produced in chitosan hydrolysis using immobilized chitosanases. <b>2002</b> , 18, 969-74	44

329	Uptake of FITC-chitosan nanoparticles by A549 cells. <b>2002</b> , 19, 1488-94	316
328	Review of Chitosan and Its Derivatives as Antimicrobial Agents and Their Uses as Textile Chemicals. <b>2003</b> , 43, 223-269	334
327	Typical physicochemical behaviors of chitosan in aqueous solution. <b>2003</b> , 4, 641-8	281
326	Correlation of SEC/MALLS with ultracentrifuge and viscometric data for chitosans. <b>2003</b> , 32, 457-64	29
325	Improvement of the yield of physiologically active oligosaccharides in continuous hydrolysis of chitosan using immobilized chitosanases. <b>2003</b> , 84, 121-7	31
324	Synthesis of a well-defined chitosan graft poly(methoxy polyethyleneglycol methacrylate) by atom transfer radical polymerization. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 901-912	2.9 58
323	Effect of molecular weight and degree of deacetylation of chitosan on urea adsorption properties of copper chitosan. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 1520-1523	2.9 16
322	Effect of degree of deacetylation of chitosan on the kinetics of ultrasonic degradation of chitosan. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 3526-3531	2.9 46
321	Contribution to the preparation of chitins and chitosans with controlled physico-chemical properties. <b>2003</b> , 44, 7939-7952	203
320	The effect of chitosan on the gel properties of tofu (soybean curd). <b>2003</b> , 57, 315-319	23
319	Ultrasonication of chitosan and chitosan nanoparticles. <b>2003</b> , 265, 103-14	145
318	Chitosanolysis by a pectinase isozyme of <i>Aspergillus niger</i> A non-specific activity. <i>Carbohydrate Polymers</i> , <b>2003</b> , 53, 191-196	10.3 60
317	Optimized Synthesis and Characterization of N-Triethyl Chitosan. <b>2003</b> , 18, 469-479	29
316	Light scattering studies of the solution properties of chitosans of varying degrees of acetylation. <b>2003</b> , 4, 1034-40	65
315	Miscibility of Chitosan and Poly(Ethylene Oxide) in Dilute Solution. <b>2003</b> , 8, 327-338	20
314	EBay Irradiation Practical Conditions for Low Molecular Weight Chitosan Material Production. <b>2003</b> , , 792, 389	
313	DNA-Chitosan Bilayer Membrane as a Bi-Functional Biomedical Adhesive. <b>2003</b> , 35, 255-260	22
312	N,N-Diethyl N-Methyl Chitosan as an Enhancing Agent for Colon Drug Delivery. <b>2004</b> , 19, 421-433	8

311	Effects of preparative parameters on the properties of chitosan hydrogel beads containing <i>Candida rugosa</i> lipase. <b>2004</b> , 25, 2645-55	58
310	Spectroscopic studies of the conformational properties of naphthoyl chitosan in dilute solutions. <b>2004</b> , 42, 2747-2758	7
309	Diethylmethyl chitosan as an antimicrobial agent: Synthesis, characterization and antibacterial effects. <b>2004</b> , 40, 1355-1361	152
308	Effects of removing small fragments with ultrafiltration treatment and ultrasonic conditions on the degradation kinetics of chitosan. <i>Polymer Degradation and Stability</i> , <b>2004</b> , 86, 25-32	4.7 41
307	Monitoring the self-assembly of chitosan/glutaraldehyde/cysteamine/Au-colloid and the binding of human serum albumin with hesperidin. <b>2004</b> , 25, 5725-33	27
306	A comparative study on depolymerization of chitosan by proteolytic enzymes. <i>Carbohydrate Polymers</i> , <b>2004</b> , 58, 275-283	10.3 65
305	Synthesis and antimicrobial activity of a water-soluble chitosan derivative with a fiber-reactive group. <b>2004</b> , 339, 313-9	466
304	Versatile and efficient formation of colloids of biopolymer-based polyelectrolyte complexes. <b>2004</b> , 5, 1882-92	183
303	Formation and properties of positively charged colloids based on polyelectrolyte complexes of biopolymers. <b>2004</b> , 20, 7766-78	147
302	Optimal gamma-ray dose and irradiation conditions for producing low-molecular-weight chitosan that retains its chemical structure. <b>2004</b> , 161, 471-80	50
301	Monodisperse chitosan nanoparticles for mucosal drug delivery. <b>2004</b> , 5, 2461-8	213
300	Low molecular weight chitosans: preparation with the aid of papain and characterization. <b>2004</b> , 1670, 137-46	85
299	Solution Properties of Partially Hydrolysed Polyacrylamide and Chitosan Mixed Solutions. <b>2005</b> , 229, 118-126	11
298	Preparation and characterization of $\pm$ chitin whisker-reinforced poly(vinyl alcohol) nanocomposite films with or without heat treatment. <b>2005</b> , 46, 5637-5644	127
297	Pharmacological activity of peroral chitosan-insulin nanoparticles in diabetic rats. <b>2005</b> , 293, 271-80	189
296	Preparation and anticoagulant activity of a low-molecular-weight sulfated chitosan. <i>Carbohydrate Polymers</i> , <b>2005</b> , 62, 327-332	10.3 120
295	Chemically modified chitosan beads as matrices for adsorptive separation of proteins by molecularly imprinted polymer. <i>Carbohydrate Polymers</i> , <b>2005</b> , 62, 214-221	10.3 54
294	Preparation and characterization of poly(ethylene glycol)-g-chitosan with water- and organosolubility. <i>Carbohydrate Polymers</i> , <b>2005</b> , 61, 472-479	10.3 57

293	Preparation and characterization of chitin whisker-reinforced chitosan nanocomposite films with or without heat treatment. <i>Carbohydrate Polymers</i> , <b>2005</b> , 62, 130-136	10.3	177
292	$\beta$ -Galactosidase from <i>Penicillium canescens</i> . Properties and immobilization. <b>2005</b> , 3, 95-105		16
291	Molecular weight and degree of acetylation of high-intensity ultrasonicated chitosan. <b>2005</b> , 19, 821-830		109
290	Preparation of chitosan/cellulose acetate blend hollow fibers for adsorptive performance. <b>2005</b> , 267, 68-77		124
289	Preparation and antimicrobial activity of hydroxypropyl chitosan. <b>2005</b> , 340, 1846-51		120
288	Miscibility Study of Chitosan/Poly(Vinyl Pyrrolidone) Blends in Dilute Solution. <b>2005</b> , 10, 329-339		13
287	Chemical modification of chitosan by phosphorylation: an XPS, FT-IR and SEM study. <b>2005</b> , 16, 1575-93		307
286	Physicochemical behavior of homogeneous series of acetylated chitosans in aqueous solution: role of various structural parameters. <b>2005</b> , 6, 131-42		155
285	Effects of the degree of deacetylation on the physicochemical properties and Schwann cell affinity of chitosan films. <b>2005</b> , 20, 157-77		102
284	Formation of biocompatible nanoparticles by self-assembly of enzymatic hydrolysates of chitosan and carboxymethyl cellulose. <b>2005</b> , 69, 1637-42		56
283	Preparation and Characterization of Maleic Acid Grafted Chitosan. <b>2005</b> , 10, 313-327		25
282	Preparation and antibacterial test of chitosan/PAA/PEGDA bi-layer composite membranes. <b>2005</b> , 16, 1503-19		31
281	Synthesis of N, N-dimethyl N-ethyl Chitosan as a Carrier for Oral Delivery of Peptide Drugs. <b>2006</b> , 21, 433-444		21
280	Processing and characterization of porous structures from chitosan and starch for tissue engineering scaffolds. <b>2006</b> , 7, 3345-55		107
279	Preparation and Characterization of Chitosan Nanoparticles Containing Lysozyme. <b>2006</b> , 44, 336-342		47
278	Synthesis and aqueous solution behavior of phosphonate-functionalized chitosans. <b>2006</b> , 42, 2678-2685		21
277	Preparation of half-deacetylated chitosan by forced penetration and its properties. <i>Carbohydrate Polymers</i> , <b>2006</b> , 65, 229-234	10.3	26
276	Electrolytic conductivity behaviors and solution conformations of chitosan in different acid solutions. <i>Carbohydrate Polymers</i> , <b>2006</b> , 63, 272-282	10.3	37

275	Effects of molecular weight, degree of acetylation and ionic strength on surface tension of chitosan in dilute solution. <i>Carbohydrate Polymers</i> , <b>2006</b> , 64, 29-36	10.3	113
274	Preparation, characterization, and swelling behavior of N-acetylated and deacetylated chitosans. <i>Carbohydrate Polymers</i> , <b>2006</b> , 64, 9-15	10.3	28
273	Effect of ultrasonic treatment on the biochemophysical properties of chitosan. <i>Carbohydrate Polymers</i> , <b>2006</b> , 64, 553-559	10.3	96
272	Protonation constants of chitosan with different molecular weight and degree of deacetylation. <i>Carbohydrate Polymers</i> , <b>2006</b> , 65, 194-201	10.3	246
271	SEC-MALS study on aggregates of chitosan molecules in aqueous solvents: Influence of residual N-acetyl groups. <i>Carbohydrate Polymers</i> , <b>2006</b> , 66, 192-198	10.3	31
270	Electrospinning of hexanoyl chitosan. <i>Carbohydrate Polymers</i> , <b>2006</b> , 66, 298-305	10.3	81
269	Synthesis, characterization and thermal sensitivity of chitosan-based graft copolymers. <b>2006</b> , 341, 2851-7		53
268	Production of chitosan oligosaccharides by chitosanase directly immobilized on an agar gel-coated multidisk impeller. <b>2006</b> , 28, 289-294		30
267	Chitosan gel formation via the chitosan-epichlorohydrin adduct and its subsequent mineralization with hydroxyapatite. <b>2006</b> , 47, 6438-6445		18
266	Chitin and chitosan: Properties and applications. <b>2006</b> , 31, 603-632		5166
265	The use of DSC curves to determine the acetylation degree of chitin/chitosan samples. <b>2006</b> , 444, 128-133		201
264	A novel hydrogel crosslinked hyaluronan with glycol chitosan. <b>2006</b> , 17, 1259-65		14
263	Novel injectable calcium phosphate/chitosan composites for bone substitute materials. <b>2006</b> , 2, 557-65		137
262	Chitosan: Aspects of fiber spinnability. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 1162-1168	2.9	48
261	Effect of immobilized neutral protease on the preparation and physicochemical properties of low molecular weight chitosan and chito-oligomers. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 4185-4193 <sup>2.9</sup>		14
260	Three-dimensional culture of human osteoblastic cells in chitosan sponges: the effect of the degree of acetylation. <b>2006</b> , 76, 335-46		53
259	Preparation and characterization of free mixed-film of pectin/chitosan/Eudragit RS intended for sigmoidal drug delivery. <b>2007</b> , 67, 175-86		131
258	Low molecular weight chitosans--preparation with the aid of pronase, characterization and their bactericidal activity towards <i>Bacillus cereus</i> and <i>Escherichia coli</i> . <b>2007</b> , 1770, 495-505		45

257	Polyelectrolyte microstructure in chitosan aqueous and alcohol solutions. <i>2007</i> , 8, 1209-17	42
256	Acylation of iminochitosan: Its effect on blending with cellulose acetate. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 727-734	2.9 8
255	Viscoelastic sol-gel state of the chitosan and alginate solution mixture. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 1408-1414	2.9 14
254	Effect of reacetylation and degradation on the chemical and crystal structures of chitosan. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 2720-2728	2.9 30
253	The effect of different sterilization procedures on chitosan dried powder. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 104, 1968-1972	2.9 35
252	A novel method for obtaining a quaternary salt of chitosan. <i>Carbohydrate Polymers</i> , <b>2007</b> , 69, 305-310	10.3 140
251	Synthesis, characterization and antibacterial activity of poly(N-vinylimidazole) grafted chitosan. <i>Carbohydrate Polymers</i> , <b>2007</b> , 69, 318-325	10.3 71
250	Hydration energy of the 1,4-bonds of chitosan and their breakdown by ultrasonic treatment. <i>Carbohydrate Polymers</i> , <b>2007</b> , 68, 598-600	10.3 20
249	Calculation of Mark-Houwink-Bakurada (MHS) equation viscometric constants for chitosan in any solvent-temperature system using experimental reported viscometric constants data. <i>Carbohydrate Polymers</i> , <b>2007</b> , 68, 477-488	10.3 175
248	Influence of molecular parameters on the degradation of chitosan by a commercial enzyme. <i>Polymer Degradation and Stability</i> , <b>2007</b> , 92, 515-524	4.7 60
247	Self-aggregation and antibacterial activity of N-acylated chitosan. <i>2007</i> , 48, 3098-3106	79
246	Reasons for unstable viscous properties of chitosan solutions in acetic acid. <i>2007</i> , 49, 15-17	13
245	Production of chitosan oligosaccharides using chitosanase immobilized on amylose-coated magnetic nanoparticles. <i>2008</i> , 43, 62-69	79
244	Synthesis and characterization of a new thermosensitive chitosan-PEG diblock copolymer. <i>Carbohydrate Polymers</i> , <b>2008</b> , 74, 435-441	10.3 79
243	Hypocholesterolaemic effects of different chitosan samples in vitro and in vivo. <i>2008</i> , 107, 419-425	78
242	Characterization of chitosan and chitosan-glucan complex extracted from the cell wall of fungus <i>Gongronella butleri</i> USDB 0201 by enzymatic method. <i>2008</i> , 42, 242-251	35
241	Development of Active Antimicrobial Fiber-Based Chitosan Polysaccharide Nanostructures using Electrospinning. <i>2008</i> , 8, 303-314	151
240	Carboxymethyl high amylose starch: Chitosan self-stabilized matrix for probiotic colon delivery. <i>2008</i> , 70, 582-9	49

239	The Effect of Irradiation Degradation of Chitosan with Gamma-Ray on the Enzymatic Degradability in Vitro of Chitosan-Based Biomembrane. <b>2008</b> ,		
238	Potential of the biopolymer chitosan with different molecular weights to control postharvest gray mold of tomato fruit. <b>2009</b> , 51, 110-117	191	
237	Selective and stable production of physiologically active chitosan oligosaccharides using an enzymatic membrane bioreactor. <b>2009</b> , 44, 283-287	38	
236	Phase transfer catalyzed heterogeneous N-deacetylation of chitin in alkaline solution. <i>Reactive and Functional Polymers</i> , <b>2009</b> , 69, 358-363	4.6	26
235	Trimethyl chitosan and its applications in drug delivery. <b>2009</b> , 20, 1057-79	220	
234	An investigation on the short-term biodegradability of chitosan with various molecular weights and degrees of deacetylation. <i>Carbohydrate Polymers</i> , <b>2009</b> , 78, 773-778	10.3	90
233	Electrospinning of poly(vinyl alcohol)-water-soluble quaternized chitosan derivative blend. <b>2009</b> , 344, 2496-501	80	
232	In vitro assessment of N-(benzyl)chitosan derivatives against some plant pathogenic bacteria and fungi. <b>2009</b> , 45, 237-245	77	
231	Emulsion Polymerization of Vinyl Monomers in Presence of Chitosan with Peroxide Groups. <b>2009</b> , 1, 1567-1575	4	
230	Study on the interfacial properties of viscous capillary flow of dilute acetic acid solutions of chitosan. <i>Carbohydrate Polymers</i> , <b>2009</b> , 78, 488-491	10.3	3
229	Changes in the MarkBlouwink hydrodynamic volume of chitosan molecules in solutions of different organic acids, at different temperatures and ionic strengths. <i>Carbohydrate Polymers</i> , <b>2009</b> , 78, 902-907	10.3	27
228	Various methods for determination of the degree of N-acetylation of chitin and chitosan: a review. <b>2009</b> , 57, 1667-76	172	
227	Coprecipitation of microamounts of radionuclides on chitosans of various molecular weights in solutions. <b>2009</b> , 51, 484-489	3	
226	Synthesis of hybrid mesoporous spheres using the chitosan as template. <b>2009</b> , 355, 860-866	41	
225	Chitosan topical gel formulation in the management of burn wounds. <i>International Journal of Biological Macromolecules</i> , <b>2009</b> , 45, 16-21	7.9	142
224	Wound healing potential of chitosan and N-sulfosuccinoyl chitosan derivatives. <b>2010</b> , 37, 339-345	6	
223	Development and in vitro characterization of galactosylated low molecular weight chitosan nanoparticles bearing doxorubicin. <b>2010</b> , 11, 686-97	37	
222	The effects of reaction conditions on block copolymerization of chitosan and poly(ethylene glycol). <i>Carbohydrate Polymers</i> , <b>2010</b> , 81, 799-804	10.3	11

221	Influence of cross-linking density on swelling and estradiol permeation of chitosan membranes. <b>2010</b> , 45, 1046-1051	15
220	Chitosan as green kinetic inhibitors for gas hydrate formation. <b>2010</b> , 19, 431-435	57
219	Effects of molecular weight and degree of acetylation on the release of nitric oxide from chitosan-nitric oxide adducts. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 117, 2183-2188	2.9 20
218	A novel method for obtaining a high-concentration chitosan solution and preparing a high-strength chitosan hollow-fiber membrane with an excellent adsorption capacity. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 1913-1921	2.9 8
217	Characteristics of cotton fabrics treated with epichlorohydrin and chitosan. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 117, 623-628	2.9 49
216	Fabrication and properties of superabsorbent complex gel beads composed of hydrolyzed polyacrylamide and chitosan. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 116, NA-NA	2.9 3
215	The performance of a fly-larva shell-derived chitosan sponge as an absorbable surgical hemostatic agent. <b>2010</b> , 31, 1270-7	93
214	Degradation of chitosan by an electrochemical process. <i>Carbohydrate Polymers</i> , <b>2010</b> , 79, 783-785	10.3 23
213	Study on the degradation of chitosan by pulsed electric fields treatment. <b>2010</b> , 11, 587-591	49
212	Dynamics of chitosan by (1)h NMR relaxation. <b>2010</b> , 11, 2079-86	30
211	Peroxide-Containing Chitosan Derivative for Hydrogel Synthesis. <b>2010</b> , 298, 85-90	3
210	Optimization and Kinetics of Cellulase Immobilization on Modified Chitin Using Response Surface Methodology. <b>2011</b> , 29, 897-915	5
209	Molecular properties of modified chitosan containing a quaternary amino group. <b>2011</b> , 53, 124-132	10
208	Surface Characterization and Antimicrobial Activity of Chitosan-Deposited DBD Plasma-Modified Woven PET Surface. <i>Plasma Chemistry and Plasma Processing</i> , <b>2011</b> , 31, 233-249	3.6 29
207	Statistical approach to the spectroscopic determination of the deacetylation degree of chitins and chitosans. <i>Carbohydrate Polymers</i> , <b>2011</b> , 86, 65-71	10.3 10
206	Lactosaminated N-succinyl-chitosan as a liver-targeted carrier of 99mTc in vivo for nuclear imaging and biodistribution. <b>2011</b> , 54, 664-670	8
205	Effect of molecular weight of chitosan degraded by microwave irradiation on lyophilized scaffold for bone tissue engineering applications. <b>2011</b> , 97, 66-73	18
204	On conformational analysis of chitosan. <i>Carbohydrate Polymers</i> , <b>2011</b> , 84, 1237-1243	10.3 19

203	Polyelectrolyte complex of carboxymethyl starch and chitosan as drug carrier for oral administration. <i>Carbohydrate Polymers</i> , <b>2011</b> , 84, 1399-1407	10.3	74
202	Formation and properties of a novel complex composed of an amylose-grafted chitosan derivative and single-walled carbon nanotubes. <i>Carbohydrate Polymers</i> , <b>2011</b> , 85, 845-853	10.3	14
201	Succinated chitosan as a gene carrier for improved chitosan solubility and gene transfection. <b>2011</b> , 7, 174-83		39
200	Sonolytic, sonocatalytic and sonophotocatalytic degradation of chitosan in the presence of TiO <sub>2</sub> nanoparticles. <i>Ultrasonics Sonochemistry</i> , <b>2011</b> , 18, 149-57	8.9	71
199	Compilation of analytical methods to characterize and determine chitosan, and main applications of the polymer in food active packaging Recopilació de mètodes analítics per la caracterització y determinació del quitosano y las principales aplicaciones del polímero en los envases activos alimentarios. <b>2011</b> , 9, 319-328		6
198	Notice of Retraction: Surface Roughness of Agarose Acetate Membrane and Its Biocompatibility. <b>2011</b> ,		
197	Ultrasonic-Assisted Preparation, Characterization and Antibacterial Activity of Chitosan from Squid Pens. <b>2011</b> , 236-238, 282-287		2
196	Effect of electrochemical degradation on the structure of chitosan using Ti/RuO <sub>2</sub> -TiO <sub>2</sub> electrode. <b>2011</b> ,		
195	A Biopolymer Chitosan and Its Derivatives as Promising Antimicrobial Agents against Plant Pathogens and Their Applications in Crop Protection. <b>2011</b> , 2011, 1-29		212
194	Plasma depolymerization of chitosan in the presence of hydrogen peroxide. <b>2012</b> , 13, 7788-97		25
193	N-trimethyl chitosan nanoparticle-encapsulated lactosyl-norcantharidin for liver cancer therapy with high targeting efficacy. <b>2012</b> , 8, 1172-81		62
192	Preparation and Characterization of Chitosan-Coated DBD Plasma-Treated Natural Rubber Latex Medical Surgical Gloves with Antibacterial Activities. <i>Plasma Chemistry and Plasma Processing</i> , <b>2012</b> , 32, 1275-1292	3.6	11
191	Polyelectrolyte complex of carboxymethyl starch and chitosan as protein carrier: oral administration of ovalbumin. <b>2012</b> , 23, 1713-28		7
190	Response surface method applied to optimization of estradiol permeation in chitosan membranes. <b>2012</b> , 35, 481-487		
189	Controlling chitosan molecular weight via multistage deacetylation. <b>2012</b> , 17, 812-817		6
188	Investigation of gelation mechanism of an injectable hydrogel based on chitosan by rheological measurements for a drug delivery application. <b>2012</b> , 8, 7128		57
187	Antibacterial activity of shrimp chitosan against some local food spoilage bacteria and food borne pathogens. <b>2012</b> , 28, 45-47		2
186	Nematicidal activity of a biopolymer chitosan at different molecular weights against root-knot nematode, <i>Meloidogyne incognita</i> . <b>2012</b> , 48, 170-178		32

185	Pemanfaatan Kitosan Termodifikasi Asam Askorbat sebagai Adsorben Ion Logam Besi(III) dan Kromium(III). <b>2012</b> , 15, 70-75	1
184	Preparation of agarose sulfate and its antithrombogenicity. <b>2012</b> , 27, 110-114	5
183	Characterization and antimicrobial activity of water-soluble N-(4-carboxybutyroyl) chitosans against some plant pathogenic bacteria and fungi. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 250-256	10.3 33
182	Purification of chitosan by using sol-gel immobilized pepsin deproteinization. <i>Carbohydrate Polymers</i> , <b>2012</b> , 88, 206-212	10.3 12
181	Sonophotocatalytic Degradation of Chitosan in the Presence of Fe(II)/H <sub>2</sub> O <sub>2</sub> System. <i>Journal of Polymers and the Environment</i> , <b>2012</b> , 20, 208-216	4.5 7
180	Chitosan as a pore former in coated beads for colon specific drug delivery of 5-ASA. <b>2013</b> , 441, 343-51	25
179	Physicochemical, pharmaceutical and biological approaches toward designing optimized and efficient hydrophobically modified chitosan-based polymeric micelles as a nanocarrier system for targeted delivery of anticancer drugs. <b>2013</b> , 21, 693-709	27
178	Chitosans for delivery of nucleic acids. <b>2013</b> , 65, 1234-70	150
177	A spectrophotometric study of the ionic complexation between chitosan and anionic dyes. <b>2013</b> , 86, 575-580	6
176	Optimizing coagulation and flocculation process for kaolinite suspension with chitosan. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 428, 100-110	5.1 50
175	High tenacity regenerated chitosan fibers prepared by using the binary ionic liquid solvent (Gly-HCl)-[Bmim]Cl. <i>Carbohydrate Polymers</i> , <b>2013</b> , 97, 300-5	10.3 31
174	Synthesis of chitosan-gallic acid conjugate: structure characterization and in vitro anti-diabetic potential. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 62, 321-9	7.9 102
173	The interaction of chitosan and olive oil: effects of degree of deacetylation and degree of polymerization. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 564-70	10.3 27
172	Effect of Irradiation on the thermomechanical and morphological properties of chitosan obtained from prawn shell: Evaluation of potential for irradiated chitosan as plant growth stimulator for Malabar spinach. <b>2013</b> , 82, 112-118	21
171	Degradation of chitosan by hydrodynamic cavitation. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 37-43	4.7 57
170	Chitosan as biosupport for the MW-assisted synthesis of palladium catalysts and their use in the hydrogenation of ethyl cinnamate. <b>2013</b> , 468, 95-101	33
169	Green synthesis approach: extraction of chitosan from fungus mycelia. <b>2013</b> , 33, 379-403	133
168	A Facile Approach for Controlled Modification of Chitosan under $\gamma$ -Ray Irradiation for Drug Delivery. <b>2013</b> , 46, 814-818	35

167	Presence of electrostatically adsorbed polysaccharides improves spray drying of liposomes. <b>2013</b> , 78, E206-21	22
166	Preparation and characterization of chitosan/Cyclodextrin nanoparticles containing plasmid DNA encoding interleukin-12. <b>2013</b> , 63, 7-12	14
165	Enzyme-responsive multifunctional surfaces for controlled uptake/release of (bio)molecules. <b>2014</b> , 123, 89-95	3
164	Production and isolation of chitosan from <i>Aspergillus terreus</i> and application in tin(II) adsorption. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9 5
163	Synergetic Effects of Pulsed Electric Field and Ozone Treatments on the Degradation of High Molecular Weight Chitosan. <b>2014</b> , 10, 775-784	13
162	Determination of the degree of deacetylation of chitosan by capillary zone electrophoresis. <i>Carbohydrate Polymers</i> , <b>2014</b> , 111, 236-44	10.3 20
161	Physicochemical, rheological and antioxidant potential of corn fiber gum. <b>2014</b> , 39, 1-9	47
160	Formation of the dispersed phase in mixed solutions of chitosan and magnesium sulfate. <b>2014</b> , 87, 830-835	7
159	Enzymatically cross-linked gelatin/chitosan hydrogels: tuning gel properties and cellular response. <b>2014</b> , 14, 817-30	30
158	Physicochemical comparison of chitin and chitosan obtained from larvae and adult Colorado potato beetle ( <i>Leptinotarsa decemlineata</i> ). <b>2014</b> , 45, 72-81	95
157	Effect of chitosan on lysostaphin lysis of staphylococcal cells. <b>2014</b> , 157, 243-5	5
156	Chitosan and Low Molecular Weight Chitosan: Biological and Biomedical Applications. <b>2014</b> , 183-242	3
155	pH-sensitive chitosan-based hydrogel nanoparticles through miniemulsion polymerization mediated by peroxide containing macromonomer. <b>2014</b> , 14, 1076-83	11
154	Degradation of chitosan by swirling cavitation. <b>2014</b> , 23, 188-193	20
153	All oxide ultraviolet photodetectors based on a p-Cu <sub>2</sub> O film/n-ZnO heterostructure nanowires. <b>2014</b> , 570, 282-287	17
152	Chitosan as a Biomaterial. <b>2014</b> , 91-113	44
151	Production and characterization of chitosan from shrimp waste. <b>2015</b> , 12, 153-160	77
150	Effect of peroxide depolymerization of chitosan on properties of chitosan sulfate particles produced from this substance. <b>2015</b> , 88, 1576-1581	6

149	Preparation of chitosan nanofibers from completely deacetylated chitosan powder by a downsizing process. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 72, 1191-5	7.9	5
148	Synergistic degradation of chitosan by impinging stream and jet cavitation. <i>Ultrasonics Sonochemistry</i> , <b>2015</b> , 27, 592-601	8.9	18
147	The use of thermal analysis in assessing the effect of bound water content and substrate rigidity on prevention of platelet adhesion. <b>2015</b> , 120, 533-539	12	
146	Exploring the kinetics of gelation and final architecture of enzymatically cross-linked chitosan/gelatin gels. <b>2015</b> , 16, 1401-9	39	
145	The effect of gamma irradiation on chitosan and its application as a plant growth promoter in Chinese kale ( <i>Brassica alboglabra</i> ). <b>2016</b> ,	2	
144	High similarity in physicochemical properties of chitin and chitosan from nymphs and adults of a grasshopper. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 89, 118-26	7.9	31
143	Antibacterial activity and mechanism of chitosan with ultra high molecular weight. <i>Carbohydrate Polymers</i> , <b>2016</b> , 148, 200-5	10.3	127
142	A review on chitosan-based flocculants and their applications in water treatment. <b>2016</b> , 95, 59-89	371	
141	Chitosan as a potential stabilizing agent for titania nanoparticle dispersions for preparation of multifunctional cotton fabric. <i>Carbohydrate Polymers</i> , <b>2016</b> , 154, 167-75	10.3	14
140	In situ coupling of chitosan onto polypropylene foils by an Atmospheric Pressure Air Glow Discharge with a liquid cathode. <i>Carbohydrate Polymers</i> , <b>2016</b> , 154, 30-9	10.3	11
139	Pulping of Crustacean Waste Using Ionic Liquids: To Extract or Not To Extract. <b>2016</b> , 4, 6072-6081	51	
138	RTG-loaded nanomicelles (CS <sub>n</sub> ES <sub>n</sub> NAC) for oral anti-HIV drug delivery. <b>2016</b> , 6, 75890-75895	3	
137	Influence of molecular weight of chitosan on the microstructures and photocatalytic property of ZrO <sub>2</sub> prepared by chitosan templates method. <b>2016</b> , 83, 657-663	10	
136	Electrochemical Depolymerization of Chitosans Using the IrO <sub>2</sub> Electrode with Interlayers as Anode. <b>2016</b> , 847, 281-286	6	
135	Plasma-chemical destruction and modification of chitosan in solution. <b>2016</b> , 50, 411-415	7	
134	Design and cell cytotoxicity assessment of palmitoylated polyethylene glycol-grafted chitosan as nanomicelle carrier for paclitaxel. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	12
133	Impact of molecular weight on the formation of electrosprayed chitosan microcapsules as delivery vehicles for bioactive compounds. <i>Carbohydrate Polymers</i> , <b>2016</b> , 150, 121-30	10.3	83
132	Cationic Cyclodextrin-Chitosan Conjugates as Potential Carrier for pmCherry-C1 Gene Delivery. <b>2016</b> , 58, 287-98	23	

131	Chitosan based films as supports for dual antimicrobial release. <i>Carbohydrate Polymers</i> , <b>2016</b> , 146, 402-100.3	36
130	Photodegradation of dispersants in colloidal suspensions of pristine graphene. <b>2016</b> , 466, 425-31	5
129	Comparison of antimicrobial activities of newly obtained low molecular weight scorpion chitosan and medium molecular weight commercial chitosan. <b>2016</b> , 121, 678-684	38
128	Fabrication and characterization chitosan/functionalized zinc oxide bionanocomposites and study of their antibacterial activity. <b>2016</b> , 23, 175-189	13
127	Flocculation of cyanobacterial cells using coal fly ash modified chitosan. <b>2016</b> , 97, 11-8	35
126	Novel melt-down neutralization method for synthesis of chitosan@silver scaffolds for tissue engineering applications. <i>Polymer Bulletin</i> , <b>2016</b> , 73, 841-858	2.4 7
125	Enzymolysis of chitosan by papain and its kinetics. <i>Carbohydrate Polymers</i> , <b>2016</b> , 135, 199-206	10.3 34
124	Prevention of postoperative adhesions by biodegradable cryogels from pectin and chitosan polysaccharides. <b>2017</b> , 32, 487-502	11
123	Effect of solution plasma process with bubbling gas on physicochemical properties of chitosan. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 98, 201-207	7.9 16
122	Modulating antioxidant activity and the controlled release capability of laccase mediated catechin grafting of chitosan. <b>2017</b> , 59, 65-76	12
121	Adhesive Properties of Pectin@chitosan Composite Gels. <b>2017</b> , 53, 823-829	1
120	One pot synthesis of gold nanoparticles using chitosan with varying degree of deacetylation and molecular weight. <i>Carbohydrate Polymers</i> , <b>2017</b> , 178, 105-114	10.3 36
119	Biopolymer -Based Nanocomposites for Environmental Applications. <b>2017</b> , 389-421	0
118	Features of chitosan interaction with copper(II) and cobalt(II) tetrasulfophthalocyanines. <i>Russian Journal of General Chemistry</i> , <b>2017</b> , 87, 2327-2331	0.7 4
117	Preparation and optimization of submicron chitosan capsules by water-based electrospraying for food and bioactive packaging applications. <b>2017</b> , 34, 1795-1806	11
116	Controlling chitosan degradation properties in vitro and in vivo. <b>2017</b> , 159-182	9
115	Gel-Filtration Chromatography. <b>2017</b> , 1485, 15-25	9
114	Cross-linkable chitosan-based hydrogel microbeads with pH-responsive adsorption properties for organic dyes prepared using size-tunable microchannel emulsification technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 514, 69-78	5.1 33

113	Modifying the molecular weight of chitosan. <b>2017</b> , 135-158	6
112	Removal of anionic and cationic dyes with bioadsorbent oxidized chitosans. <i>Carbohydrate Polymers</i> , <b>2018</b> , 194, 375-383	10.3 64
111	The Antimicrobial Behavior of Polyelectrolyte Chitosan-Styrene Maleic Anhydride Nano Composites. <b>2018</b> , 26, 418-425	5
110	Antitumor activity of chitosan from mayfly with comparison to commercially available low, medium and high molecular weight chitosans. <b>2018</b> , 54, 366-374	23
109	Effect of temperature, ion type and ionic strength on dynamic viscoelastic, steady-state and dilute-solution properties of Descurainia sophia seed gum. <b>2018</b> , 79, 81-89	14
108	Application of response surface methodology to tailor the surface chemistry of electrospun chitosan-poly(ethylene oxide) fibers. <i>Carbohydrate Polymers</i> , <b>2018</b> , 186, 122-131	10.3 18
107	Preparation of Oxidized and Grafted Chitosan Superabsorbents for Urea Delivery. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 728-739	4.5 17
106	Biopolymer (Chitin) from Various Marine Seashell Wastes: Isolation and Characterization. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 2207-2218	4.5 41
105	A simple method for preparing imidazolium-based polymer as solid catalyst for Suzuki-Miyaura reaction. <b>2018</b> , 445, 170-178	16
104	Depolymerized Chitosan Enhances the Lysis of <i>Staphylococcus aureus</i> Cells by Lysostaphin. <b>2018</b> , 8, 1-4	5
103	Production and characterization of chitosan and glycerol-chitosan films. <b>2018</b> , 3, 3601-3610	4
102	Investigation of Substituent Effect in Modified Nature-Sourced Polymers: Rational Side Chain Engineering to Control Yield, Design, and Properties. <b>2018</b> , 3, 12841-12850	4
101	Synthesis and Evaluation of Herbal Chitosan from <i>Ganoderma Lucidum</i> Spore Powder for Biomedical Applications. <b>2018</b> , 8, 14608	12
100	Mapping electrospray modes and droplet size distributions for chitosan solutions in unentangled and entangled concentration regimes. <i>Advanced Powder Technology</i> , <b>2018</b> , 29, 3007-3021	4.6 6
99	Properties of Functional Films Based on Chitosan Derivative with Gallic Acid. <i>Applied Biochemistry and Microbiology</i> , <b>2018</b> , 54, 484-490	1.1 6
98	The Inclusion of Timolol and Lisinopril in Calcium Phosphate Particles Covered by Chitosan: Application in Ophthalmology. <i>Moscow University Chemistry Bulletin</i> , <b>2018</b> , 73, 85-89	0.5 3
97	Strategy to improve the characterization of chitosan by size exclusion chromatography coupled with multi angle laser light scattering. <i>Carbohydrate Polymers</i> , <b>2018</b> , 202, 99-105	10.3 13
96	An eco-friendly molecular imprinting technique for the selective recognition and controlled release of bovine serum albumin. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 3502-3511	3.5 2

95	Hydrogels based on alkylated chitosan and polyelectrolyte copolymers. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46556	2.9	10
94	An update on physicochemical and functional properties of newly seed gums. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 119, 1240-1247	7.9	21
93	Versatile acid base sustainable solvent for fast extraction of various molecular weight chitin from lobster shell. <i>Carbohydrate Polymers</i> , <b>2018</b> , 201, 211-217	10.3	54
92	Multi-Jet Electrospinning with Auxiliary Electrode: The Influence of Solution Properties. <i>Polymers</i> , <b>2018</b> , 10,	4.5	13
91	Synthesis, molecular characteristics, and stimulus-sensitivity of graft copolymer of chitosan and poly(N,N-diethylacrylamide). <i>Journal of Molecular Liquids</i> , <b>2019</b> , 292, 111355	6	7
90	Preparation of Submicron Chitosan-Alginate Particles and Study of Their Selective Sorption Properties with Respect to Amphiphilic Organic Compounds. <i>Russian Journal of General Chemistry</i> , <b>2019</b> , 89, 1324-1331	0.7	1
89	Thermochemical research of chitosan complexes with sulfonated metallophthalocyanines. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 137, 1153-1160	7.9	3
88	Wasted Derived Chitosans for Smear Layer Removal in Endodontic Treatment. <i>Polymers</i> , <b>2019</b> , 11,	4.5	1
87	Influence of the parameters of chitin deacetylation process on the chitosan obtained from crab shell waste. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 1890-1899	2.8	7
86	Preparation of viscose fiber modified with silkworm pupa chitosan oligosaccharide by $\beta$ -glucosidase. <i>Textile Research Journal</i> , <b>2019</b> , 89, 4461-4475	1.7	2
85	Supramolecular Self-Assembly and Phase Transformations in Aqueous Systems Based on Chitosan and Sulfonated Metallophthalocyanines. <i>Russian Journal of General Chemistry</i> , <b>2019</b> , 89, 612-618	0.7	
84	Hydrogen peroxide pretreatment efficiently assisting enzymatic hydrolysis of chitosan at high concentration for chitooligosaccharides. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 164, 177-186	4.7	12
83	Wound Healing Potential of Natural Polymer: Chitosan A Wonder Molecule! <b>2019</b> , 527-579	4	
82	Poly(l-lactic acid) bio-composites reinforced by oligo(d-lactic acid) grafted chitosan for simultaneously improved ductility, strength and modulus. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 131, 495-504	7.9	14
81	Spectral and thermochemical research of the DNA polyplex with chitosan formation process and the influence of anionic and cationic compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 215, 153-157	4.4	
80	Characterization and in vitro evaluation of chitosan/konjac glucomannan bilayer film as a wound dressing. <i>Carbohydrate Polymers</i> , <b>2019</b> , 212, 59-66	10.3	38
79	Effect of degree of deacetylation on solubility of low-molecular-weight chitosan produced via enzymatic breakdown of chitosan. <i>Polymer International</i> , <b>2019</b> , 68, 1054-1063	3.3	11
78	Effect of KOH as Deacetylation Agent on Physicochemical Properties of Glucomannan. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1295, 012037	0.3	2

77	The Use of Chitosan, Alginate, and Pectin in the Biomedical and Food Sector-Biocompatibility, Bioadhesiveness, and Biodegradability. <i>Polymers</i> , <b>2019</b> , 11,	4.5	164
76	Extraction and characterization of chitin from sea snail <i>Conus inscriptus</i> (Reeve, 1843). <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 126, 555-560	7.9	21
75	Dissolution of chitosan nanocrystals in aqueous media of different acidity. Molecular dynamic study. <i>Carbohydrate Polymers</i> , <b>2019</b> , 207, 619-627	10.3	3
74	Effect of hydration on water state, glass transition dynamics and crystalline structure in chitosan films. <i>Carbohydrate Polymers</i> , <b>2019</b> , 206, 602-608	10.3	25
73	Tuning the rheological properties of cellulosic ionogels reinforced with chitosan: The role of the deacetylation degree. <i>Carbohydrate Polymers</i> , <b>2019</b> , 207, 775-781	10.3	12
72	Polymeric Materials for Clean Water. <i>Springer Series on Polymer and Composite Materials</i> , <b>2019</b> ,	0.9	6
71	Polymers as Water Disinfectants. <i>Springer Series on Polymer and Composite Materials</i> , <b>2019</b> , 149-165	0.9	
70	Recent Progress in Organic Phototransistors: Semiconductor Materials, Device Structures and Optoelectronic Applications. <i>ChemPhotoChem</i> , <b>2020</b> , 4, 9-38	3.3	25
69	Optimization conversion of chitosan from <i>Ganoderma lucidum</i> spore powder using ultrasound-assisted deacetylation: Influence of processing parameters. <i>Journal of Food Processing and Preservation</i> , <b>2020</b> , 44, e14297	2.1	0
68	Composite chitosan hydrogels as advanced wound dressings with sustained ibuprofen release and suitable application characteristics. <i>Pharmaceutical Development and Technology</i> , <b>2020</b> , 25, 332-339	3.4	11
67	Development, characterization and antimicrobial activity of sodium dodecyl sulfate-polysaccharides capsules containing eugenol. <i>Carbohydrate Polymers</i> , <b>2020</b> , 230, 115562	10.3	3
66	Physicochemical and biological characteristics of chitosan/carrageenan thin layer-by-layer films for surface modification of nitinol. <i>Micron</i> , <b>2020</b> , 138, 102922	2.3	4
65	Solubility, degree of acetylation, and distribution of acetyl groups in chitosan. <b>2020</b> , 131-164		1
64	Nickel ferrite/Chitosan composite as a RADAR absorbing material on missile: A review and prospective. <b>2020</b> ,		3
63	Soil structuring using interpolyelectrolyte complexes of water-soluble polysaccharides. <i>Polymers for Advanced Technologies</i> , <b>2020</b> , 31, 3292-3301	3.2	4
62	Extraction, characterization and bioactivity of chitosan from farms shrimps of Basra province by chemical method. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1660, 012023	0.3	1
61	Dual-Mode Solution Plasma Processing for the Production of Chitosan/Ag Composites with the Antibacterial Effect. <i>Materials</i> , <b>2020</b> , 13,	3.5	9
60	Quantitative Analysis by IR: Determination of Chitin/Chitosan DD. <b>2020</b> ,		4

59	Selection of Water-Soluble Chitosan by Microwave-Assisted Degradation and pH-Controlled Precipitation. <i>Polymers</i> , <b>2020</b> , 12,	4.5	7
58	Hydrogels in the clinic. <i>Bioengineering and Translational Medicine</i> , <b>2020</b> , 5, e10158	14.8	97
57	Chitosan-based electrospun membranes: Effects of solution viscosity, coagulant and crosslinker. <i>Carbohydrate Polymers</i> , <b>2020</b> , 235, 115976	10.3	38
56	Ultrasonic assisted water-in-oil emulsions encapsulating macro-molecular polysaccharide chitosan: Influence of molecular properties, emulsion viscosity and their stability. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 64, 105018	8.9	16
55	Preparation and optimization of chitosan nanoparticles from discarded squilla () shells for the delivery of anti-inflammatory drug: Diclofenac. <i>Journal of the Air and Waste Management Association</i> , <b>2020</b> , 70, 1227-1235	2.4	6
54	Degradation of chitosan with self-resonating cavitation. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 5776-5787	5	
53	Direct ionization and solubility of chitosan in aqueous solutions with acetic acid. <i>Polymer Bulletin</i> , <b>2021</b> , 78, 1465-1488	2.4	7
52	Metal ion-assisted formation of porous chitosan-based microspheres for biomedical applications. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2021</b> , 70, 1027-1035	3	2
51	Antibacterial Polyelectrolytic chitosan derivatives conjugated natural rubber latex films with minimized bacterial adhesion. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49608	2.9	8
50	Chitosan in Eucalyptus grandis Pyroligneous Liquor for Agricultural Application: Physicochemical and Structural Characterization During Storage. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 1591-1599	4.5	
49	Solution Properties. <b>2021</b> , 29-73		
48	Evaluation of Chitosan from Crab Shell and Chitosan from Squid Gladius Based on Biochemistry Performance. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3183	2.6	2
47	Chitosan Natural Polymer Material for Improving Antibacterial Properties of Textiles.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 4014-4038	4.1	14
46	Properties of Low Molecular Weight Chitosan Obtained by Catalytic Degradation Using Lanthanum(III)/Halloysite Nanotube Catalysts. <i>Journal of Polymers and the Environment</i> , <b>1</b>	4.5	
45	Valorization of Moroccan brown seaweeds: Elaboration of formaldehyde-free particleboards based on sodium alginate-starch - Mimosa tannin wood adhesives. <i>International Journal of Adhesion and Adhesives</i> , <b>2021</b> , 108, 102894	3.4	5
44	Destruction of Chitosan and Its Complexes with Cobalt(II) and Copper(II) Tetrasulphophthalocyanines. <i>Polymers</i> , <b>2021</b> , 13,	4.5	0
43	Development of marine oligosaccharides for potential wound healing biomaterials engineering. <i>Chemical Engineering Journal Advances</i> , <b>2021</b> , 7, 100113	3.6	6
42	Hyaluronic Acid-Based Nanoparticles for Protein Delivery: Systematic Examination of Microfluidic Production Conditions. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	2

41	Biocompatible homogeneous particle formation via the self-complexation of chitosan with oleic acid and its application as an encapsulation material for a water-insoluble compound. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 624, 126808	5.1	3
40	Electron Beam Irradiated Chitosan elicits enhanced antioxidant properties combating resistance to Purple Blotch Disease () in Onion (). <i>International Journal of Radiation Biology</i> , <b>2021</b> , 1-9	2.9	
39	Polyelectrolytic nature of chitosan: Influence on physicochemical properties and synthesis of nanoparticles. <i>Journal of Drug Delivery Science and Technology</i> , <b>2021</b> , 65, 102730	4.5	5
38	Conformation and persistence length of chitosan in aqueous solutions of different ionic strengths via asymmetric flow field-flow fractionation. <i>Carbohydrate Polymers</i> , <b>2021</b> , 271, 118402	10.3	1
37	Biomedical potential of chitosan from cuttlebone of cephalopods. <i>Carbohydrate Polymers</i> , <b>2021</b> , 273, 118591	10.3	2
36	A study on structural comparisons of chitin extracted from marine crustacean shell waste. <i>Carbohydrate Polymer Technologies and Applications</i> , <b>2021</b> , 2, 100037	1.7	2
35	Advances in the preparation and assessment of the biological activities of chitosan oligosaccharides with different structural characteristics. <i>Food and Function</i> , <b>2021</b> , 12, 926-951	6.1	9
34	Interactions of Chitosan with Metals for Water Purification. 127-141		7
33	Chitosans. <b>2006</b> , 497-520		6
32	Ionically and Covalently Crosslinked Hydrogel Particles Based on Chitosan and Poly(ethylene glycol). <i>Chemistry and Chemical Technology</i> , <b>2014</b> , 8, 171-176	0.9	5
31	EFFECT OF HYDROPHOBIC ASSOCIATION ON STRUCTURE AND RHEOLOGICAL BEHAVIORS OF POLYACRYLAMIDE BASED AQUEOUS SOLUTIONS. <i>Acta Polymerica Sinica</i> , <b>2010</b> , 006, 810-814		4
30	Depolymerization of -Beam Irradiation. <i>Journal of Biosciences and Medicines</i> , <b>2019</b> , 07, 72-83	0.2	1
29	Peroxide chitosan derivatives and their application. <i>Chemistry and Chemical Technology</i> , <b>2007</b> , 1, 137-147	0.9	2
28	Chitin and Derivatives. 1461-1469		
27	Comparative Immunogenicity Evaluation of Characterized Chitosan-Based and Other Adjuvants for Inactivated Influenza Vaccines. <i>Epidemiologiya i Vaktsinoprofilaktika</i> , <b>2016</b> , 15, 86-92	0.6	
26	Highly Monodisperse Chitosan Nanoparticles Prepared by a Combined Triple-Method for Potential Use as Drug Carriers. <i>International Journal of Nanomaterials Nanotechnology and Nanomedicine</i> , <b>2016</b> , 001-006	0.9	
25	Chitosan capped trimetallic nanoparticles: Synthesis and their Congo red adsorbing activities. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 194, 580-580	7.9	3
24	Chitooligosaccharides production from shrimp chaff in chitosanase cell surface display system. <i>Carbohydrate Polymers</i> , <b>2022</b> , 277, 118894	10.3	1

23	Characteristics of chitosan fiber and their effects towards improvement of antibacterial activity.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 280, 119031	10.3	6
22	Characterization and cytotoxicity of low-molecular-weight chitosan and chito-oligosaccharides derived from tilapia fish scales. <i>Journal of Advanced Pharmaceutical Technology and Research</i> , <b>2021</b> , 12, 373-377	2.1	1
21	Biodegradable Crosslinked Chitosan Gel Microbeads with Controlled Size, Prepared by Membrane Emulsification-External Gelation and Their Application as Reusable Adsorption Materials. <i>Journal of Chemical Engineering of Japan</i> , <b>2022</b> , 55, 61-70	0.8	1
20	Morphology-controlled synthesis of gold nanoparticles with chitosan for catalytic reduction of nitrophenol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 640, 128471	5.1	1
19	Synthesis and characterization of $\alpha$ -ipoic acid grafted chitosan derivatives with antioxidant activity. <i>Reactive and Functional Polymers</i> , <b>2022</b> , 172, 105205	4.6	1
18	Solution Plasma Processing as an Environmentally Friendly Method for Low-Molecular Chitosan Production. <i>Plasma Chemistry and Plasma Processing</i> , <b>2022</b> , 42, 587	3.6	0
17	Synthesis of chitosan-magnetite gel microparticles with improved stability and magnetic properties: A study on their adsorption, recoverability, and reusability in the removal of monovalent and multivalent azo dyes. <i>Reactive and Functional Polymers</i> , <b>2022</b> , 173, 105220	4.6	3
16	Synthesis and characterization of new functionalized chitosan and its antimicrobial and in-vitro release behavior from topical gel.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> ,	7.9	6
15	Improved Stability of the Palm Oil-in-Water Emulsion via the Surface Modification of Droplets with a Chitosan-Casein Complex Layer. <i>Japan Journal of Food Engineering</i> , <b>2021</b> , 22, 105-115	0.2	1
14	Synergistic effect of discrete ultrasonic and H <sub>2</sub> O <sub>2</sub> on physicochemical properties of chitosan. <i>Carbohydrate Polymers</i> , <b>2022</b> , 291, 119598	10.3	0
13	Crab ( <i>Charybdis natator</i> ) exoskeleton derived chitosan nanoparticles for the in vivo delivery of poorly water-soluble drug: Ibuprofen. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 212, 283-293	7.9	0
12	One-Step Encapsulation of Capsaicin into Chitosan-Oleic Acid Complex Particles: Evaluation of Encapsulation Ability and Stability. <i>Polymers</i> , <b>2022</b> , 14, 2163	4.5	0
11	Chitosan characteristics in electrolyte solutions: Combined molecular dynamics modeling and slender body hydrodynamics. <i>Carbohydrate Polymers</i> , <b>2022</b> , 119676	10.3	0
10	Flavor encapsulation into chitosan-oleic acid complex particles and its controlled release characteristics during heating processes. <b>2022</b> , 167, 113815	10.3	0
9	Chitosan capped silver nanoparticles: Adsorption and photochemical activities. <b>2022</b> , 15, 104154	0	
8	Properties and types of chitosan-based nanomaterials. <b>2022</b> , 85-117	0	
7	Characterization and Optimization of Chitosan Production by <i>Aspergillus terreus</i> .	0	
6	Impact of polyelectrolyte complex layer on the stability of palm oil multiple emulsions encapsulating a water-soluble compound during heating, cooling, and storage processes. <b>2023</b> , 137, 108335	0	

- 5 New thiadiazole modified chitosan derivative to control the growth of human pathogenic microbes  
and cancer cell lines. **2022**, 12, 2
- 4 PhysicalChemical and Morphological Characterization of Chitosan Extracted from Shrimp Shells.  
**2023**, 87-95 O
- 3 CHITOSAN FILMS PREPARED WITH LOW NANOMETAL CONTENT FOR DEVELOPING PROTECTIVE  
DENIM FABRICS. O
- 2 Effects of Chitosan Molecular Weight and Degree of Deacetylation on ChitosanCellulose  
Nanocrystal Complexes and Their Formation. **2023**, 28, 1361 O
- 1 Polyols and Polyurethane Foams Based on Water-Soluble Chitosan. **2023**, 15, 1488 O