

CITATION REPORT

List of articles citing

Improved method for i.r. determination of the degree of N-acetylation of chitosan

DOI: 10.1016/s0141-8130(05)80007-8
International Journal of Biological Macromolecules,
1992, 14, 166-9.

Source: <https://exaly.com/paper-pdf/23226418/citation-report.pdf>

Version: 2024-04-28

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

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

#	Paper	IF	Citations
392	Degree of deacetylation of chitosan using conductometric titration and solid-state NMR. <i>Carbohydrate Research</i> , 1993 , 246, 331-336	2.9	199
391	Water soluble derivatives obtained by controlled chemical modifications of chitosan. <i>Carbohydrate Polymers</i> , 1994 , 24, 209-214	10.3	192
390	Review of Chitin and Chitosan as Fiber and Film Formers. 1994 , 34, 375-437		170
389	Blood compatibility and biodegradability of partially N-acylated chitosan derivatives. 1995 , 16, 1211-6		362
388	Evaluation of different absorbance ratios from infrared spectroscopy for analyzing the degree of deacetylation in chitin. <i>International Journal of Biological Macromolecules</i> , 1996 , 18, 237-42	7.9	332
387	Rhodococcus sp. immobilized by adsorption on chitin. 1996 , 126-131		1
386	Immobilization of α -glucosidase from a commercial preparation. Part 1. A comparative study of natural supports. 1996 , 31, 281-285		33
385	Effects of chain flexibility of chitosan molecules on the preparation, physical, and release characteristics of the prepared capsule. <i>Carbohydrate Polymers</i> , 1996 , 31, 141-148	10.3	43
384	Effect of molecular weight and urea on the conformation of chitosan molecules in dilute solutions. <i>International Journal of Biological Macromolecules</i> , 1997 , 20, 233-40	7.9	104
383	Improved infrared spectroscopic method for the analysis of degree of N-deacetylation of chitosan. <i>Polymer Bulletin</i> , 1997 , 39, 67-71	2.4	123
382	Formation and characterisation of a physical chitin gel. <i>Carbohydrate Research</i> , 1997 , 302, 169-177	2.9	140
381	Immobilization of β -arabinofuranosidase on chitin and chitosan. 1998 , 33, 57-62		37
380	Immobilization of the glycosidases: β -arabinofuranosidase and α -D-glucopyranosidase from <i>Aspergillus niger</i> on a chitosan derivative to increase the aroma of wine. Part II. 1998 , 23, 413-421		22
379	The influence of anionic chitin derivatives on calcium phosphate crystallization. 1998 , 19, 1309-16		30
378	Effect of temperature on the intrinsic viscosity and conformation of chitosans in dilute HCl solution. <i>International Journal of Biological Macromolecules</i> , 1998 , 23, 135-41	7.9	111
377	Metal-Anion Sorption by Chitosan Beads: Equilibrium and Kinetic Studies. 1998 , 37, 1454-1463		381
376	The degree of deacetylation of chitosan: advocating the first derivative UV-spectrophotometry method of determination. 1998 , 45, 713-9		174

375	Chitosan: a unique polysaccharide for drug delivery. 1998 , 24, 979-93		622
374	Polysaccharides: Chitin and Chitosan: Chemistry and Technology of Their Use As Structural Materials. 1998 , 96-118		55
373	Determination of the degree of acetylation of chitin/chitosan by pyrolysis-gas chromatography in the presence of oxalic Acid. 1998 , 70, 7-12		73
372	Platinum recovery on chitosan-based sorbents. 1999 , 265-275		2
371	Degree of acetylation of heteropolysaccharides. <i>Carbohydrate Research</i> , 2000 , 323, 156-62	2.9	17
370	Degree of Acetylation of Chitin and Extent of Grafting PHB on Chitosan Determined by Solid State ¹⁵ N NMR. 1999 , 32, 518-520		47
369	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> , 1999 , 71, 1905-1913	2.9	32
368	Effects of ionic strength and pH on the diffusion coefficients and conformation of chitosans molecule in solution. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 2041-2050	2.9	50
367	Influence of polymer structural parameters and experimental conditions on metal anion sorption by chitosan. 1999 , 48, 671-680		48
366	Study of molybdate ion sorption on chitosan gel beads by different spectrometric analyses. <i>International Journal of Biological Macromolecules</i> , 1999 , 24, 49-59	7.9	109
365	Chitosan Sorbents for Platinum Sorption from Dilute Solutions. 1999 , 38, 4011-4022		122
364	Colloidal Titration of Chitosan and Critical Unit of Chitosan to the Potentiometric Colloidal Titration with Poly(vinyl sulfate) Using Toluidine Blue as Indicator. 1999 , 72, 37-41		17
363	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> , 2000 , 75, 452-457	2.9	17
362	Swelling behavior and the release of protein from chitosan-pectin composite particles. <i>Carbohydrate Polymers</i> , 2000 , 43, 163-169	10.3	81
361	A review of chitin and chitosan applications. <i>Reactive and Functional Polymers</i> , 2000 , 46, 1-27	4.6	4287
360	Skin hydration effects, physico-chemical properties and vitamin E release ratio of vital moisture creams containing water-soluble chitosans. 2000 , 22, 349-360		7
359	Stabilization of invertase by modification of sugar chains with chitosan. 2000 , 22, 347-350		47
358	Solid state NMR for determination of degree of acetylation of chitin and chitosan. 2000 , 1, 746-51		252

357	Influence of Hydrolysis Mechanisms on Molybdate Sorption Isotherms Using Chitosan. 2000 , 35, 1021-1038		56
356	Skin hydration effects, physico-chemical properties and vitamin E release ratio of vital moisture creams containing water-soluble chitosans. 2000 , 22, 349		1
355	Chitin and chitosan. 2000 , 41, 265-308		16
354	Novel fabrication of open-pore chitin matrixes. 2000 , 1, 61-7		77
353	The Structural Properties of Chitin as It Is Known Today. 2001 , 73-82		2
352	Kinetics and products of the degradation of chitosan by hydrogen peroxide. 2001 , 49, 4845-51		194
351	Determination of degree of substitution for N-acylated chitosan using IR spectra. 2001 , 44, 216-224		39
350	A novel chitosan derivative to immobilize alpha-L-rhamnopyranosidase from <i>Aspergillus niger</i> for application in beverage technologies. 2001 , 28, 427-438		40
349	Influence of the degree of acetylation on some biological properties of chitosan films. 2001 , 22, 261-8		466
348	Controlled functionalization of the polysaccharide chitin. 2001 , 26, 1921-1971		692
347	Functional stabilization of cellulase by covalent modification with chitosan. <i>Journal of Chemical Technology and Biotechnology</i> , 2001 , 76, 489-493	3.5	61
346	Preparation and structural characterization of water-soluble O-hydroxypropyl chitin derivatives. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 2624-2632	2.9	27
345	Chitin Derivatives III Formation of Amidized Homologs of Chitosan. 2001 , 8, 35-47		21
344	An infrared investigation in relation with chitin and chitosan characterization. 2001 , 42, 3569-3580		950
343	Concurrent production of chitin from shrimp shells and fungi. <i>Carbohydrate Research</i> , 2001 , 332, 305-16	2.9	159
342	Vesicle size, size distribution, stability, and rheological properties of liposomes coated with water-soluble chitosans of different molecular weights and concentrations. 2001 , 11, 211-28		17
341	An optimised method to determine the degree of acetylation of chitin and chitosan by FTIR spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2002 , 31, 1-8	7.9	244
340	Effect of recovery methods and conditions on the yield, solubility, molecular weight, and creep compliance of regenerated chitosan. <i>Journal of Applied Polymer Science</i> , 2002 , 84, 193-202	2.9	11

339	Fabrication of ultrathin films based on chitosan and bovine serum albumin and their stability studied with the radio-labeled method. 2002 , 25, 19-27		11
338	Antimicrobial activity of shrimp chitin and chitosan from different treatments and applications of fish preservation. 2002 , 68, 170-177		247
337	Review of Chitosan and Its Derivatives as Antimicrobial Agents and Their Uses as Textile Chemicals. 2003 , 43, 223-269		334
336	Chitin-silk fibroin interactions: relevance to calcium carbonate formation in invertebrates. 2003 , 72, 548-54		81
335	Sulphate and molybdate ions uptake by chitin-based shrimp shells. 2003 , 16, 715-722		59
334	Recovery of Metal Ions by Chitosan: Sorption Mechanisms and Influence of Metal Speciation. 2003 , 3, 552-561		63
333	UV Spectrophotometry: Improvements in the Study of the Degree of Acetylation of Chitosan. 2003 , 3, 531-534		16
332	Effect of degree of deacetylation of chitosan on the kinetics of ultrasonic degradation of chitosan. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 3526-3531	2.9	46
331	Synthesis and characterization of a novel derivative of chitosan. 2003 , 44, 547-556		62
330	The effect of chitosan on the gel properties of tofu (soybean curd). 2003 , 57, 315-319		23
329	A validated ¹ H NMR method for the determination of the degree of deacetylation of chitosan. 2003 , 32, 1149-58		451
328	Release of albumin from chitosan-coated pectin beads in vitro. 2003 , 250, 371-83		87
327	Ionic conductivity of chitosan membranes. 2003 , 44, 1057-1065		229
326	Chitosan-Supported Palladium Catalyst. 3. Influence of Experimental Parameters on Nitrophenol Degradation. 2003 , 19, 8475-8483		131
325	Preparation and Characterization of Injectable Chitosan-Hydroxyapatite Microspheres. 2003 , 254-256, 573-576		11
324	pH-Sensitive Hydrogels Composed of Chitosan and Polyacrylamide: Enzymatic Degradation. <i>Journal of Bioactive and Compatible Polymers</i> , 2004 , 19, 197-208	2	9
323	pH-Sensitive Hydrogels Composed of Chitosan and Polyacrylamide [Preparation and Properties. <i>Journal of Bioactive and Compatible Polymers</i> , 2004 , 19, 101-116	2	28
322	Non-specific depolymerization of chitosan by pronase and characterization of the resultant products. 2004 , 271, 713-23		45

321	Deacetylation of β -chitin. I. Influence of the deacetylation conditions. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 2416-2422	2.9	22
320	Effects of removing small fragments with ultrafiltration treatment and ultrasonic conditions on the degradation kinetics of chitosan. 2004 , 86, 25-32		41
319	Hydrogels as adsorbents of organosulphur compounds currently found in diesel. 2004 , 43, 1587-1595		39
318	Free radical scavenging activities of differently deacetylated chitosans using an ESR spectrometer. <i>Carbohydrate Polymers</i> , 2004 , 55, 17-22	10.3	247
317	A comparative study on depolymerization of chitosan by proteolytic enzymes. <i>Carbohydrate Polymers</i> , 2004 , 58, 275-283	10.3	65
316	Solid-state characterization of chitosans derived from lobster chitin. <i>Carbohydrate Polymers</i> , 2004 , 58, 401-408	10.3	124
315	Structure and Chirality of the Nematic Phase in β -Chitin Suspensions. 2004 , 108, 14991-15000		94
314	Molecular motions in chitosan studied by dielectric relaxation spectroscopy. 2004 , 5, 2073-8		41
313	Monodisperse chitosan nanoparticles for mucosal drug delivery. 2004 , 5, 2461-8		213
312	New aspects of the extraction of chitin from squid pens. 2004 , 5, 559-64		80
311	Optimal routine conditions for the determination of the degree of acetylation of chitosan by $^1\text{H-NMR}$. <i>Carbohydrate Polymers</i> , 2005 , 61, 155-161	10.3	95
310	Surimi wash water treatment for protein recovery: effect of chitosan-alginate complex concentration and treatment time on protein adsorption. 2005 , 96, 665-71		55
309	Rat bone marrow stromal cell osteogenic differentiation and fibronectin adsorption on chitosan membranes: the effect of the degree of acetylation. 2005 , 75, 387-97		55
308	Preparation and characterization of microwave-treated carboxymethyl chitin and carboxymethyl chitosan films for potential use in wound care application. 2005 , 5, 1001-12		71
307	Applications of Functionalized Chitosan in Catalysis \square 2005 , 44, 8499-8520		215
306	Chemical modification of chitosan by phosphorylation: an XPS, FT-IR and SEM study. 2005 , 16, 1575-93		307
305	CHITOSAN-BASED FUEL CELL MEMBRANES. 2006 , 193, 855-868		20
304	Analytical Methods for Chitosan. 2006 , 3, 229-240		1

303	Chitosan-whey protein edible films produced in the absence or presence of transglutaminase: analysis of their mechanical and barrier properties. 2006 , 7, 744-9		139
302	Immobilization of chitosan-modified invertase on alginate-coated chitin support via polyelectrolyte complex formation. 2006 , 38, 22-27		43
301	Acetylation and molecular mass effects on barrier and mechanical properties of shortfin squid chitosan membranes. 2006 , 42, 3277-3285		32
300	Ultraviolet-light-filtering behavior of fullereneimine derivative/chitosan blended membranes. 2006 , 47, 4341-4347		2
299	Chitin and chitosan: Properties and applications. 2006 , 31, 603-632		5166
298	The use of DSC curves to determine the acetylation degree of chitin/chitosan samples. 2006 , 444, 128-133		201
297	Polyelectrolyte complex formation mediated immobilization of chitosan-invertase neoglycoconjugate on pectin-coated chitin. 2006 , 28, 387-95		28
296	Glutaraldehyde and glyoxal cross-linked chitosan microspheres for controlled delivery of centchroman. <i>Carbohydrate Research</i> , 2006 , 341, 744-56	2.9	122
295	Fermentative Herstellung von Chitosan aus Pilzmycelien. 2006 , 78, 479-483		4
294	Three-dimensional culture of human osteoblastic cells in chitosan sponges: the effect of the degree of acetylation. 2006 , 76, 335-46		53
293	Evaluation of an improved acid hydrolysis-HPLC assay for the acetyl content in chitin and chitosan. 2006 , 76, 155-60		20
292	Valorisation des r̃sidus industriels de p̃ches pour la transformation de chitosane par technique hydrothermo-chimique. 2007 , 20, 253-262		13
291	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> . 2007 , 1770, 495-505		45
290	Physico-chemical characterization of fungal chitosan from shiitake stipes. <i>LWT - Food Science and Technology</i> , 2007 , 40, 472-479	5.4	66
289	Isolation and characterization of chitin from bumblebee (<i>Bombus terrestris</i>). <i>International Journal of Biological Macromolecules</i> , 2007 , 40, 237-41	7.9	104
288	Accessibility of the functional groups of chitosan aerogel probed by FT-IR-monitored deuteration. 2007 , 8, 3646-50		84
287	Application of Chitosan for the Removal of Metals From Wastewaters by Adsorption Mechanisms and Models Review. 2007 , 37, 41-127		559
286	Cross-linking chitosan nanofibers. 2007 , 8, 594-601		345

285	Low molecular weight chitosan--preparation with the aid of pepsin, characterization, and its bactericidal activity. 2007 , 8, 566-72		55
284	Attachment, spreading and short-term proliferation of human osteoblastic cells cultured on chitosan films with different degrees of acetylation. 2007 , 18, 469-85		71
283	Liquid-crystalline behavior of chitosan in malic acid. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 2670-2675	14	
282	Miscibility and biodegradability of silk fibroin/carboxymethyl chitin blend films. 2007 , 7, 1258-71		26
281	Transglutaminase-catalyzed preparation of chitosan- β -valbumin films. 2007 , 40, 437-441		53
280	Preparation and characterization of chitin whisker-reinforced silk fibroin nanocomposite sponges. 2007 , 43, 4123-4135		87
279	Linear viscoelastic behavior of chitosan films as influenced by changes in the biopolymer structure. 2007 , 45, 1907-1915		8
278	Three-dimensional polymeric systems for cancer cell studies. 2007 , 54, 135-43		45
277	Studies on graft copolymerization of 2-hydroxyethyl acrylate onto chitosan. <i>Reactive and Functional Polymers</i> , 2008 , 68, 389-395	4.6	65
276	Comment on Aspects of Chitosan Preparation. 2008 , 31, 917-921		3
275	Selection of a practical assay for the determination of the entire range of acetyl content in chitin and chitosan: UV spectrophotometry with phosphoric acid as solvent. 2008 , 86, 558-68		9
274	Study on radiation-induced grafting of hydrophilic monomers onto chitosan. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 558-563	2.9	18
273	Cavitation effects versus stretch effects resulted in different size and polydispersity of ionotropic gelation chitosan-sodium tripolyphosphate nanoparticle. <i>Carbohydrate Polymers</i> , 2008 , 71, 448-457	10.3	128
272	A review of several reported procedures to determine the degree of N-acetylation for chitin and chitosan using infrared spectroscopy. <i>Carbohydrate Polymers</i> , 2008 , 71, 497-508	10.3	261
271	Dendritic polyaniline nanoparticles synthesized by carboxymethyl chitin templating. 2008 , 44, 3423-3429		11
270	Chitin and Chitosan: Major Sources, Properties and Applications. 2008 , 517-542		62
269	IMMOBILIZATION OF INVERTASE π CHITOSAN CONJUGATE ON HYALURONIC-ACID-MODIFIED CHITIN. 2008 , 32, 264-277		13
268	Preparation and In Vitro Evaluation of Budesonide Spray Dried Microparticles for Pulmonary Delivery. 2009 , 77, 419-441		11

267	Electrospun hybrid nanofibers based on chitosan or N-carboxyethylchitosan and silver nanoparticles. 2009 , 9, 884-94		37
266	Preparation of antibacterial chito-oligosaccharide by altering the degree of deacetylation of chitosan in a <i>Trichoderma harzianum</i> chitinase-hydrolysing process. 2009 , 89, 238-244		39
265	Removal of Hg ²⁺ from aqueous solution using a novel composite carbon adsorbent. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 2445-2454	2.9	12
264	Polyaniline nanoparticles with controlled sizes using a cross-linked carboxymethyl chitin template. 2009 , 11, 1167-1177		14
263	Dielectric relaxations of chitosan: The effect of water on the β -relaxation and the glass transition temperature. 2009 , 47, 2259-2271		45
262	Solid state characterization of chitin from <i>Vanessa cardui</i> Linnaeus wings. 2009 , 29, 1370-1374		22
261	Physicochemical characterization of chitin and chitosan from crab shells. <i>Carbohydrate Polymers</i> , 2009 , 75, 15-21	10.3	340
260	Extraction and characterization of chitin and chitosan from marine sources in Arabian Gulf. <i>Carbohydrate Polymers</i> , 2009 , 77, 410-419	10.3	374
259	Development of budesonide microparticles using spray-drying technology for pulmonary administration: design, characterization, in vitro evaluation, and in vivo efficacy study. 2009 , 10, 993-1012		40
258	Various methods for determination of the degree of N-acetylation of chitin and chitosan: a review. 2009 , 57, 1667-76		172
257	An efficient method for ¹⁵ N-labeling of chitin in fungi. 2009 , 10, 793-7		9
256	Chitosan: a New Versatile Bio-polymer for Various Applications. 2009 , 12, 377-404		79
255	In vitro antioxidant activities of low-molecular-weight polysaccharides with various functional groups. 2009 , 57, 2699-704		85
254	The Use of Various Types of NMR and IR Spectroscopy for Structural Characterization of Chitin and Chitosan. 2010 , 149-170		1
253	Application of temperature programmed desorption mass spectrometry for the determination of the deacetylation degree of chitosan. 2010 , 65, 1377-1381		3
252	Determination of the degree of N-acetylation for chitin and chitosan by various NMR spectroscopy techniques: A review. <i>Carbohydrate Polymers</i> , 2010 , 79, 801-810	10.3	210
251	Enzymatic Polysaccharide Degradation. 2010 , 389-420		1
250	Fabrication and properties of solution-cast polyaniline/carboxymethylchitin blend films. <i>Journal of Applied Polymer Science</i> , 2010 , 116, NA-NA	2.9	2

249	Facile method to manipulate the molecular weight and practical mass production of chitosan by mechanical shearing and concurrent ultrafiltration treatment. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a	2.9	1
248	Novel carboxymethyl derivatives of chitin and chitosan materials and their biomedical applications. 2010 , 55, 675-709		382
247	. 2010 ,		29
246	Understanding the mechanism of ionic gelation for synthesis of chitosan nanoparticles using qualitative techniques. 2010 , 4, 148		49
245	Application of spectroscopic methods for structural analysis of chitin and chitosan. 2010 , 8, 1567-636		637
244	Matrix Interactions in Biomineralization: Aragonite Nucleation by an Intrinsically Disordered Nacre Polypeptide, n16N, Associated with a β -Chitin Substrate. 2010 , 10, 1383-1389		54
243	Application of chitosan-incorporated LDPE film to sliced fresh red meats for shelf life extension. 2010 , 85, 493-9		66
242	Chitosan. 2011 , 221-237		10
241	Chitosan for Film and Coating Applications. 2011 , 87-105		4
240	Cytotoxicity and genotoxicity of chitooligosaccharides upon lymphocytes. <i>International Journal of Biological Macromolecules</i> , 2011 , 49, 433-8	7.9	19
239	Chitosan/whey protein film as active coating to extend Ricotta cheese shelf-life. <i>LWT - Food Science and Technology</i> , 2011 , 44, 2324-2327	5.4	144
238	Chitin. 2011 , 36, 35-102		16
237	. 2011 ,		46
236	Characterization and Properties of Chitosan. 2011 ,		44
235	Effect of the ionic strength of the media on the aggregation behaviors of high molecule weight chitosan. 2011 , 18, 1385-1395		20
234	Surface Characterization and Antimicrobial Activity of Chitosan-Deposited DBD Plasma-Modified Woven PET Surface. 2011 , 31, 233-249		29
233	Production and characterization of chitosan obtained from <i>Rhizopus oryzae</i> grown on potato chip processing waste. 2011 , 27, 1145-1154		38
232	Anomalous rheology of polypyrrole nanoparticle/alginate suspensions: effect of solids volume fraction, particle size, and electronic state. 2011 , 50, 809-823		3

231	Competitive biosorption of azo dyes from aqueous solution on the templated crosslinked-chitosan nanoparticles. 2011 , 185, 430-41		68
230	The storage stability of chitosan/tripolyphosphate nanoparticles in a phosphate buffer. <i>Carbohydrate Polymers</i> , 2011 , 84, 756-761	10.3	81
229	Statistical approach to the spectroscopic determination of the deacetylation degree of chitins and chitosans. <i>Carbohydrate Polymers</i> , 2011 , 86, 65-71	10.3	10
228	Characterization and biocompatibility of chitosan nanocomposites. 2011 , 85, 198-206		59
227	Differences in degradation kinetics for sonolysis, microfluidization and shearing treatments of chitosan. 2011 , 60, 897-902		16
226	Chitosan molecular structure as a function of N-acetylation. 2011 , 95, 448-60		72
225	Effect of chitosan characteristics and solution conditions on gelation temperatures of chitosan/2-glycerophosphate/nanosilver hydrogels. <i>Carbohydrate Polymers</i> , 2011 , 84, 1337-1343	10.3	39
224	Viscosity-temperature behavior of chitin solutions using lithium chloride/DMA as solvent. <i>Carbohydrate Research</i> , 2011 , 346, 614-8	2.9	18
223	Chitosan as a potential amendment to remediate metal contaminated soil - a characterisation study. 2011 , 82, 71-80		53
222	Use of chitin, chitosan and acylated derivatives as thickener agents of vegetable oils for bio-lubricant applications. <i>Carbohydrate Polymers</i> , 2011 , 85, 705-714	10.3	68
221	Physicochemical and functional characteristics of radiation-processed shrimp chitosan. 2011 , 80, 837-841		30
220	A Biopolymer Chitosan and Its Derivatives as Promising Antimicrobial Agents against Plant Pathogens and Their Applications in Crop Protection. 2011 , 2011, 1-29		212
219	Chitosan: The Most Valuable Derivative of Chitin. 2011 , 129-166		13
218	The Influence of Chitosan Membrane Properties for Direct Methanol Fuel Cell Applications. 2012 , 9,		13
217	Chitosan whiskers from shrimp shells incorporated into dimethacrylate-based dental resin sealant. 2012 , 31, 273-9		20
216	Preparation and Characterization of Chitosan-Coated DBD Plasma-Treated Natural Rubber Latex Medical Surgical Gloves with Antibacterial Activities. 2012 , 32, 1275-1292		11
215	Chitosan-based mucoadhesive tablets for oral delivery of ibuprofen. 2012 , 436, 602-10		81
214	Preparation of Chitosan Beads for Trypsin Immobilization. 2012 , 26, 156-163		16

213	Fractionation of chitosan by supercritical carbon dioxide/ acetic acid aqueous solution. 2012 , 71, 86-91	6
212	The Effects of Demineralization Process on Diameter, Tensile Properties and Biodegradation of Chitosan Fiber. 2012 , 4, 138-145	15
211	Synthesis, release ability and bioactivity evaluation of chitin beads incorporated with curcumin for drug delivery applications. 2012 , 29, 549-58	13
210	The Molecular Structure and Conformational Dynamics of Chitosan Polymers: An Integrated Perspective from Experiments and Computational Simulations. 2012 ,	3
209	Inhibition of bladder tumor growth by chitooligosaccharides in an experimental carcinogenesis model. 2012 , 10, 2661-75	37
208	A new approach for the preparation of chitosan from γ irradiation of prawn shell: effects of radiation on the characteristics of chitosan. 2012 , 61, 1302-1308	48
207	Preparation of highly porous β -chitin structure through nonsolvent/solvent exchange-induced phase separation and supercritical CO ₂ drying. 2012 , 68, 31-38	16
206	Mobilization of mesenchymal stem cells by stromal cell-derived factor-1 released from chitosan/tripolyphosphate/fucoidan nanoparticles. 2012 , 8, 1048-56	91
205	Inter-connecting pores of chitosan scaffold with basic fibroblast growth factor modulate biological activity on human mesenchymal stem cells. <i>Carbohydrate Polymers</i> , 2012 , 87, 2683-2689	10.3 14
204	Effect of chitosan edible coating on the quality of double filleted Indian oil sardine (<i>Sardinella longiceps</i>) during chilled storage. 2012 , 26, 167-174	179
203	Antibacterial activity of chitin, chitosan and its oligomers prepared from shrimp shell waste. 2012 , 29, 48-56	429
202	Release characteristic and stability of curcumin incorporated in β -chitin non-woven fibrous sheet using Tween 20 as an emulsifier. 2012 , 48, 512-523	26
201	Extraction, characterization and in vitro antioxidative potential of chitosan and sulfated chitosan from Cuttlebone of <i>Sepia aculeata</i> Orbigny, 1848. 2012 , 2, S334-S341	42
200	Effect of acyl chain length and unsaturation on physicochemical properties and transfection efficiency of N-acyl-substituted low-molecular-weight chitosan. 2012 , 101, 268-82	13
199	Grafting of Chitosan with Styrene and Maleic Anhydride via Nitroxide-Mediated Radical Polymerization in Supercritical Carbon Dioxide. 2013 , 214, 1396-1404	21
198	Assessment of coating tomato fruit with shrimp shell chitosan and N,O-carboxymethyl chitosan on postharvest preservation. 2013 , 7, 66-74	32
197	Effect of shrimp chitosan coatings as affected by chitosan extraction processes on postharvest quality of strawberry. 2013 , 7, 215-221	38
196	Effect of γ 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. 2013 , 82, 112-118	21

195	Chitosan dressing promotes healing in third degree burns in mice: gene expression analysis shows biphasic effects for rapid tissue regeneration and decreased fibrotic signaling. 2013 , 101, 340-8	60
194	Extraction of chitin from prawn shells and conversion to low molecular mass chitosan. 2013 , 31, 166-171	117
193	CT gene modulate differential expression of chitinase gene under variant habitats in <i>Vibrio cholerae</i> . 2013 , 3, 20-25	1
192	Chitosan as biosupport for the MW-assisted synthesis of palladium catalysts and their use in the hydrogenation of ethyl cinnamate. 2013 , 468, 95-101	33
191	Green synthesis approach: extraction of chitosan from fungus mycelia. 2013 , 33, 379-403	133
190	Supramolecular composite materials from cellulose, chitosan, and cyclodextrin: facile preparation and their selective inclusion complex formation with endocrine disruptors. 2013 , 29, 5037-49	32
189	Inhibition of oxidative stress by low-molecular-weight polysaccharides with various functional groups in skin fibroblasts. 2013 , 14, 19399-415	23
188	Microspheres for Cell Culture. 2013 , 67-102	1
187	Physico-chemical and structural characterization of mucilage isolated from seeds of <i>Diospyros melonoxylon</i> Roxb.. 2014 , 50, 713-725	24
186	Effect of corn steep liquor (CSL) and cassava wastewater (CW) on chitin and chitosan production by <i>Cunninghamella elegans</i> and their physicochemical characteristics and cytotoxicity. <i>Molecules</i> , 2014 , 19, 2771-92	4.8 23
185	Effect of the alkaline treatment conditions on the tableting performance of chitin obtained from shrimp heads. 2014 , 8, 211-219	4
184	Green conversion of agroindustrial wastes into chitin and chitosan by <i>Rhizopus arrhizus</i> and <i>Cunninghamella elegans</i> strains. 2014 , 15, 9082-102	29
183	Influence of Functionalization Degree on the Rheological Properties of Isocyanate-Functionalized Chitin- and Chitosan-Based Chemical Oleogels for Lubricant Applications. 2014 , 6, 1929-1947	19
182	Physicochemical characterization of chitin and chitosan obtained from resting eggs of <i>Ceriodaphnia quadrangula</i> (Branchiopoda: Cladocera: Daphniidae). 2014 , 34, 283-288	19
181	<i>Manilkara zapota</i> (Linn.) Seeds: A Potential Source of Natural Gum. 2014 , 2014, 647174	5
180	Immobilization of α-Glucosidase and Its Application for Enhancement of Aroma Precursors in Muscat Wine. 2014 , 7, 1381-1392	31
179	Chitosan-sheath and chitin-core nanowhiskers. <i>Carbohydrate Polymers</i> , 2014 , 107, 158-66	10.3 69
178	Rheological and Tribological Characterization of a New Acylated ChitosanBased Biodegradable Lubricating Grease: A Comparative Study with Traditional Lithium and Calcium Greases. 2014 , 57, 445-454	23

177	Degradation of chitosan by sonication in very-low-concentration acetic acid. 2014 , 110, 344-352	52
176	Preparing, characterizing, and evaluating chitosan/fucoidan nanoparticles as oral delivery carriers. 2014 , 21, 1	28
175	Optimization of conditions for isolation of high quality chitin from shrimp processing raw byproducts using response surface methodology and its characterization. 2015 , 52, 3812-23	12
174	Chitosan as a Biomaterial. 2014 , 91-113	44
173	Effect of Acid Hydrolysis on Tableting Properties of Chitin Obtained from Shrimp Heads. 2015 , 14, 1137	0
172	Síntesis y propiedades de filmes basados en quitosano/lactosuero. 2015 , 25, 58-69	8
171	Effects of chitin and its derivatives on human cancer cells lines. 2015 , 22, 15579-86	30
170	Synthesis and characterization of S-nitrosoglutathione-oligosaccharide-chitosan as a nitric oxide donor. 2015 , 12, 1209-23	6
169	Persian gulf chitin extraction from sepia pharaonis sp. cuttlebone and preparation of its derivatives. 2015 , 6, 133-142	11
168	Adsorption of Carbon Black Using Chitosan in the Deinking Process. 2015 , 17, 106-110	5
167	Structural alterations, pore generation, and deacetylation of β - and α -chitin submitted to steam explosion. <i>Carbohydrate Polymers</i> , 2015 , 122, 321-8	10.3 29
166	Effective immobilization of glucose oxidase on chitosan submicron particles from gladius of <i>Todarodes pacificus</i> for glucose sensing. 2015 , 104, 44-50	20
165	Effect of molecular weight reduction by gamma irradiation on the antioxidant capacity of chitosan from lobster shellsPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. 2015 , 8, 190-200	40
164	Arsenic(V) sorption using chitosan/Cu(OH) ₂ and chitosan/CuO composite sorbents. <i>Carbohydrate Polymers</i> , 2015 , 134, 190-204	10.3 99
163	Coloration of cotton fibers using nano chitosan. <i>Carbohydrate Polymers</i> , 2015 , 134, 182-9	10.3 18
162	Effect of the characters of chitosans used and regeneration conditions on the yield and physicochemical characteristics of regenerated products. 2015 , 16, 8621-34	15
161	Synthesis and antioxidant properties of chitosan and carboxymethyl chitosan-stabilized selenium nanoparticles. <i>Carbohydrate Polymers</i> , 2015 , 132, 574-81	10.3 99
160	Amperometric glucose biosensor based on glucose oxidase immobilized over chitosan nanoparticles from gladius of <i>Uroteuthis duvauceli</i> . 2015 , 215, 536-543	49

159	Extraction and characterization of chitin and chitosan from fishery waste by chemical method. 2015 , 3, 77-85		114
158	Extraction and characterization of chitin and chitosan with antimicrobial and antioxidant activities from cosmopolitan Orthoptera species (Insecta). 2015 , 20, 168-179		88
157	A Review on Chitin and Chitosan Polymers: Structure, Chemistry, Solubility, Derivatives, and Applications. 2015 , 2, 204-226		462
156	Enrichment desired quality chitosan fraction and advance yield by sequential static and static-dynamic supercritical CO ₂ . <i>Carbohydrate Polymers</i> , 2015 , 133, 313-9	10.3	7
155	Degree of deacetylation of chitosan by infrared spectroscopy and partial least squares. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 939-45	7.9	72
154	A method for top down preparation of chitosan nanoparticles and nanofibers. <i>Carbohydrate Polymers</i> , 2015 , 117, 731-738	10.3	48
153	Determination of N-acetylation degree in chitosan using Raman spectroscopy. 2015 , 134, 114-20		137
152	Effect of basic fibroblast growth factor released from chitosan-fucoidan nanoparticles on neurite extension. 2016 , 10, 418-27		38
151	Chitosan and Its Derivatives as Active Ingredients Against Plant Pests and Diseases. 2016 , 179-219		8
150	Synthesis and Characterization of Chitosan Nanoaggregates from Gladius of <i>Uroteuthis duvauceli</i> . 2016 , 2016, 5379424		9
149	Synthesis and physicochemical characterization of chitin dihexanoate--A new biocompatible chitin derivative--In comparison to chitin dibutyrate. 2016 , 60, 489-502		11
148	Chitosan-graft-poly(n-butyl acrylate) copolymer: Synthesis and characterization of a natural/synthetic hybrid material. <i>Carbohydrate Polymers</i> , 2016 , 145, 86-94	10.3	18
147	Chemical characterization, antioxidant and anti-listerial activity of non-animal chitosan-glucan complexes. 2016 , 61, 338-343		10
146	Effect of chitosan on shelf life of restructured fish products from pangasius (<i>pangasianodon hypophthalmus</i>) surimi during chilled storage. 2016 , 53, 2099-107		18
145	Mechanochemical synthesis of chitosan submicron particles from the gladius of <i>Todarodes pacificus</i> . 2016 , 7, 863-71		5
144	Eco-friendly extraction and characterization of chitin and chitosan from the shrimp shell waste via microwave irradiation. 2016 , 104, 395-405		92
143	Drug Carriers, Polymers as: Synthesis, Characterization, and In Vitro Evaluation. 2016 , 1-28		1
142	Chitosan attenuates dibutyltin-induced apoptosis in PC12 cells through inhibition of the mitochondria-dependent pathway. <i>Carbohydrate Polymers</i> , 2016 , 151, 996-1005	10.3	13

141	Antimicrobial and cytotoxicity evaluation of colloidal chitosan - silver nanoparticles - fluoride nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 896-903	7.9	36
140	Improvement of corrosion resistance, antimicrobial activity, mechanical and chemical properties of epoxy coating by loading chitosan as a natural renewable resource. 2016 , 101, 288-296		33
139	Bioactivity and Mechanism of Action of Marine Glycans. 2016 , 71-86		
138	Molecular interactions, characterization and photoactivity of Chlorophyll a/chitosan/2-HP- β -cyclodextrin composite films as functional and active surfaces for ROS production. 2016 , 58, 98-112		34
137	Pectinase Immobilization on a Chitosan-Coated Chitin Support. 2016 , 39, 97-104		10
136	Intensifying chitin hydrolysis by adjunct treatments: An overview. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 2787-2798	3.5	16
135	AOT reverse micelles as versatile reaction media for chitosan nanoparticles synthesis. <i>Carbohydrate Polymers</i> , 2017 , 171, 85-93	10.3	34
134	2.13 Chitosan ?. 2017 , 279-305		7
133	Nitrogenated Polysaccharides [Chitin and Chitosan, Characterization and Application. 2017 , 25-70		
132	Propolis and chitosan as antimicrobial and polyphenols retainer for the development of paper based active packaging materials. 2017 , 14, 75-82		21
131	Features of Chitosan interaction with copper(II) and cobalt(II) tetrasulfophthalocyanines. 2017 , 87, 2327-2331		4
130	Chitin nanofiber as a promising candidate for improved salty taste. <i>LWT - Food Science and Technology</i> , 2017 , 75, 65-71	5.4	17
129	Continuous cane sugar inversion process using immobilized invertase. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 787-792	3.5	4
128	Chitin Preparation by Demineralizing Deproteinized Lobster Shells with CO ₂ and a Cationite. 2017 , 5, 30-37		1
127	Deacetylation modification techniques of chitin and chitosan. 2017 , 117-133		21
126	Determination of the Deacetylation Degree of Chitooligosaccharides. 2017 , 15,		26
125	Increase of tensile strength and toughness of bio-based diglycidyl ether of bisphenol A with chitin nanowhiskers. 2017 , 12, e0177673		9
124	The Use of Titration Technique and FTIR Bands to Determine the Deacetylation Degree of Chitosan Samples. 2017 , 07,		2

123	Chitin and N-acetylglucosamine Metabolism in Fungi - A Complex Machinery Harnessed for the Design of Chitin-Based High Value Products. 2017 , 6,		6
122	Biomass-based nanocomposite for packaging applications. 2017 , 123-146		2
121	Chitosan and chitooligosaccharides from shrimp shell waste: characterization, antimicrobial and shelf life extension in bread. 2018 , 27, 1201-1208		19
120	Sulfonated graphene oxide-catalyzed N-acetylation of amines with acetonitrile under sonication. 2018 , 83, 174-183		17
119	Extraction of Chitosan from Shrimp Shells: Effect of Deacetylation Time on the Morphological, Thermal Properties and the Value of Deacetylation Degree (DD). 2018 , 1263-1265		2
118	Preparation of chitin with puffing pretreatment. 2018 , 44, 4939-4955		5
117	Chitosan nanoparticles preparation and applications. 2018 , 16, 101-112		224
116	Liquefied chitin/polyvinyl alcohol based blend membranes: Preparation and characterization and antibacterial activity. <i>Carbohydrate Polymers</i> , 2018 , 180, 175-181	10.3	21
115	Extraction and physicochemical characterization of chitin and chitosan isolated from house cricket. 2018 , 13, 025009		77
114	Chitin from <i>Agaricus bisporus</i> : Extraction and characterization. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 1334-1342	7.9	81
113	Chitosan produced from Mucorales fungi using agroindustrial by-products and its efficacy to inhibit <i>Colletotrichum</i> species. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 635-641	7.9	30
112	Synthesis of water-soluble chitosan from crab shells (<i>Scylla serrata</i>) waste. 2018 ,		1
111	Fabrication of Scaffold based on Chitosan [Poly-2-Acrylamido- 2-Methylpropane Sulfonic Acid (PAMPS) Polyelectrolyte Complexes. 2018 , 395, 012023		1
110	Extraction of degradable bio polymer materials from shrimp shell wastes by two different methods. 2018 , 464, 012004		2
109	Dispersion of TiO ₂ Nanotubes in a Chitosan Matrix. <i>MRS Advances</i> , 2018 , 3, 3805-3810	0.7	1
108	Synthesis and Characterization of Chitosan-p-t-Butylcalix[4]arene acid. 2018 , 333, 012011		2
107	Hydrocolloid-Based Coatings are Effective at Reducing Acrylamide and Oil Content of French Fries. 2018 , 8, 147		25
106	An industrial-scale synthesis of biodegradable soluble in organic solvents butyric-acetic chitin co polyesters. 2018 , 37, 3210-3221		4

105	Cytotoxicity against cancer cells of chitosan oligosaccharides prepared from chitosan powder degraded by electrical discharge plasma. <i>Carbohydrate Polymers</i> , 2018 , 201, 20-30	10.3	34
104	Skin protectant textiles loaded with fish collagen, chitosan and oak galls extract composite. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 25-29	7.9	13
103	Preparation of chitin-based nanocomposite as an effective biocatalyst for microwave aided domino reaction. <i>Heliyon</i> , 2019 , 5, e02036	3.6	6
102	A study of the structural changes in a chitosan matrix produced by the adsorption of copper and chromium ions. <i>Carbohydrate Polymers</i> , 2019 , 222, 114987	10.3	20
101	Wound Healing Potential of Natural Polymer: Chitosan A Wonder Molecule 2019, 527-579		4
100	Synthesis of high molecular weight chitosan from chitin by mechanochemistry and aging. 2019 , 21, 3276-3285		44
99	Effect of degree of deacetylation on solubility of low-molecular-weight chitosan produced via enzymatic breakdown of chitosan. 2019 , 68, 1054-1063		11
98	Synthesis, Characterisation and Biological Evaluation of Ampicillin-Chitosan-Polyanion Nanoparticles Produced by Ionic Gelation and Polyelectrolyte Complexation Assisted by High-Intensity Sonication. 2019 , 11,		12
97	Physicochemical and Colligative Investigation of (Shrimp Shell)- and (Squid Pen)-Chitosan Membranes: Concentration-Gradient-Driven Water Flux and Ion Transport for Salinity Gradient Power and Separation Process Operations. 2019 , 4, 21027-21040		4
96	Fabrication of Chitosan based-Scaffold as Potential Cornea Implant. 2019 , 547, 012062		2
95	Anti-proliferative effect of chitosan nanoparticles (extracted from crayfish <i>Procambarus clarkii</i> , Crustacea: Cambaridae) against MDA-MB-231 and SK-BR-3 human breast cancer cell lines. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 478-487	7.9	22
94	Chitin and waste shrimp shells liquefaction and liquefied products/polyvinyl alcohol blend membranes. <i>Carbohydrate Polymers</i> , 2019 , 205, 550-558	10.3	7
93	Polymeric Materials for Clean Water. <i>Springer Series on Polymer and Composite Materials</i> , 2019 ,	0.9	6
92	Polymers as Water Disinfectants. <i>Springer Series on Polymer and Composite Materials</i> , 2019 , 149-165	0.9	
91	Cellulosic fibres modified by chitosan and synthesized ecofriendly carboxymethyl chitosan from prawn shell waste. <i>Journal of the Textile Institute</i> , 2020 , 111, 49-59	1.5	6
90	Simultaneous deacetylation and degradation of chitin hydrogel by electrical discharge plasma using low sodium hydroxide concentrations. <i>Carbohydrate Polymers</i> , 2020 , 228, 115377	10.3	5
89	Surface deacetylation of chitin nano-whiskers. <i>Polymer Bulletin</i> , 2020 , 77, 5345-5355	2.4	3
88	Synthesis, characterization and antimicrobial performance of novel nanostructured biopolymer film based on levan/clay/LL-37 antimicrobial peptide. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020 , 23, 101421	4.2	7

87	Extraction and recovery response of <i>Penaeus indicus</i> chitosan against <i>Aeromonas hydrophila</i> Ah17 infected snakehead murrel <i>Channa striata</i> . <i>Aquaculture International</i> , 2020 , 28, 587-602	2.6	1
86	Chitinous polymers: extraction from fungal sources, characterization and processing towards value-added applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 1277-1289	3.5	15
85	Mushroom-derived chitosan-glucan nanopaper filters for the treatment of water. <i>Reactive and Functional Polymers</i> , 2020 , 146, 104428	4.6	22
84	The effect of chitosan, arbuscular mycorrhizal fungi, and compost applied individually or in combination on growth, nutrient uptake, and stem anatomy of tomato. <i>Scientia Horticulturae</i> , 2020 , 261, 109015	4.1	25
83	Current status and future of chitosan in drug and vaccine delivery. <i>Reactive and Functional Polymers</i> , 2020 , 147, 104452	4.6	7
82	Effect of chitooligosaccharide and different low molecular weight chitosans on the formation of acrylamide and 5-hydroxymethylfurfural and Maillard reaction products in glucose/fructose-asparagine model systems. <i>LWT - Food Science and Technology</i> , 2020 , 119, 108879	5.4	10
81	Solubility, degree of acetylation, and distribution of acetyl groups in chitosan. 2020 , 131-164		1
80	Chitin and chitosan Important structural components in <i>Trichoderma</i> cell wall remodeling. 2020 , 243-280		1
79	Calcium ion mediated rapid wound healing by nano-ZnO doped calcium phosphate-chitosan-alginate biocomposites. <i>Materialia</i> , 2020 , 13, 100839	3.2	13
78	Chitosan from shrimp residues with a saturated solution of calcium chloride in methanol and water. <i>Carbohydrate Research</i> , 2020 , 497, 108116	2.9	8
77	Nonspecific enzymatic hydrolysis of a highly ordered chitopolysaccharide substrate. <i>Carbohydrate Research</i> , 2020 , 498, 108191	2.9	2
76	Chemical Modifications of Chitin and Chitosan. 2020 , 885-963		4
75	Changes in the microstructure and enzymatic hydrolysis performance of chitin treated by steam explosion, high-pressure homogenization, and irradiation. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49597	2.9	1
74	Obituary of George A.F. Roberts (1939-2018). <i>Reactive and Functional Polymers</i> , 2020 , 156, 104711	4.6	
73	Dipteran Carboxymethyl Chitosan as an Inexhaustible Derivative with a Potential Antiproliferative Activity in Hepatocellular Carcinoma Cells. <i>Evidence-based Complementary and Alternative Medicine</i> , 2020 , 2020, 4396305	2.3	
72	Structural and Physicochemical Characterization of Chitosan Obtained by UAE and Its Effect on the Growth Inhibition of <i>Pythium ultimum</i> . <i>Agriculture (Switzerland)</i> , 2020 , 10, 464	3	6
71	Influence of chitosan on the mechanical and biological properties of HDPE for biomedical applications. <i>Polymer Testing</i> , 2020 , 91, 106610	4.5	3
70	Quantitative Analysis by IR: Determination of Chitin/Chitosan DD. 2020 ,		4

69	Agroindustrial waste as ecofriendly and low-cost alternative to production of chitosan from Mucorales fungi and antagonist effect against <i>Fusarium solani</i> (Mart.) Sacco and <i>Scytalidium lignicola</i> Pesante. <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 101-108	7.9	6
68	Effectual Anticancer Potentiality of Loaded Bee Venom onto Fungal Chitosan Nanoparticles. <i>International Journal of Polymer Science</i> , 2020 , 2020, 1-9	2.4	11
67	Chitin and chitosan remodeling defines vegetative development and <i>Trichoderma</i> biocontrol. <i>PLoS Pathogens</i> , 2020 , 16, e1008320	7.6	16
66	Developing a biopolymeric chitosan supported Schiff-base and Cu(II), Ni(II) and Zn(II) complexes and biological evaluation as pro-drug. <i>International Journal of Biological Macromolecules</i> , 2020 , 152, 846-861	7.9	27
65	Ultrasonic-assisted chitin nanoparticle and its application as saltiness enhancer. <i>International Journal of Food Science and Technology</i> , 2021 , 56, 608-617	3.8	6
64	Preparation and characterization of various chitin-glucan complexes derived from white button mushroom using a deep eutectic solvent-based ecofriendly method. <i>International Journal of Biological Macromolecules</i> , 2021 , 169, 122-129	7.9	7
63	Chitosan-based bionanocomposites in medical textile. 2021 , 293-308		
62	Chemical Proprieties of Biopolymers (Chitin/Chitosan) and Their Synergic Effects with Endophytic Species: Unlimited Applications in Agriculture. <i>Molecules</i> , 2021 , 26,	4.8	7
61	Characterization of chitosan with different degree of deacetylation and equal viscosity in dissolved and solid state - Insights by various complimentary methods. <i>International Journal of Biological Macromolecules</i> , 2021 , 171, 242-261	7.9	10
60	Physicochemical properties and film formation of the chitin hydrocolloid fabricated by a novel green process. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50762	2.9	1
59	Determiration of Carbohydrate Composition in Mealworm (<i>L.</i>) Larvae and Characterization of Mealworm Chitin and Chitosan. <i>Foods</i> , 2021 , 10,	4.9	8
58	Biosynthesis and characterization of deuterated chitosan in filamentous fungus and yeast. <i>Carbohydrate Polymers</i> , 2021 , 257, 117637	10.3	4
57	Comparative performance of bio-based coatings formulated with cellulose, chitin, and chitosan nanomaterials suitable for fruit preservation. <i>Carbohydrate Polymers</i> , 2021 , 259, 117764	10.3	11
56	Only carapace or the entire cephalothorax: which is best to obtain chitosan from shrimp fishery waste?. <i>Journal of Material Cycles and Waste Management</i> , 2021 , 23, 1831-1837	3.4	0
55	Application of Fish Collagen-Nanochitosan-Henna Extract Composites for the Control of Skin Pathogens and Accelerating Wound Healing. <i>International Journal of Polymer Science</i> , 2021 , 2021, 1-9	2.4	1
54	Polymer Nanocomposites of Selenium Biofabricated Using Fungi. <i>Molecules</i> , 2021 , 26,	4.8	1
53	Preparation of chitosan from waste shrimp shells fermented with <i>Paenibacillus jamilae</i> BAT1. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 1191-1199	7.9	4
52	Synthesis and Characterization of Chitosan/Hydroxyapatite Nanocomposite for Bone Tissue Engineering Applications. 2021 ,		0

51	Rheological and Thermal Properties of Levan from <i>Bacillus mojavensis</i> . <i>Journal of Polymers and the Environment</i> , 1	4.5	
50	Effect of chitin nanowhiskers on mechanical and swelling properties of Gum Arabic hydrogels nanocomposites. <i>Carbohydrate Polymers</i> , 2021 , 266, 118116	10.3	2
49	A comprehensive survey upon diverse and prolific applications of chitosan-based catalytic systems in one-pot multi-component synthesis of heterocyclic rings. <i>International Journal of Biological Macromolecules</i> , 2021 , 186, 1003-1166	7.9	8
48	Synthesis and physicochemical mechanistic evaluation of chitosan-based interbiopolyelectrolyte complexes for effective encapsulation of OLZ for potential application in nano-psychiatry. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 22, 100456	3.9	3
47	Degradable Polymers. 2327-2349		3
46	Synthesis, Characterization and Biomedical Applications of Chitosan and Its Derivatives. 2013 , 15-68		1
45	Gamma Radiation Treated Chitosan Solution for Strawberry Preservation: Physico-Chemical Properties and Sensory Evaluation. <i>International Letters of Natural Sciences</i> , 60, 30-37		3
44	Physicochemical and Biological Characteristics of Squid Chitosan Nanoparticle. <i>International Journal of Electrical Energy</i> , 2017 ,	2	1
43	Spinning Process of Chitosan Fiber with Low Concentration of Formic Acid Solution and its Characteristics. <i>Journal of Modern Materials</i> , 2016 , 1, 24-34	0.7	2
42	Impact of Replacement of Gelatin with Chitosan on the Physicochemical Properties of Ice-Milk. <i>International Journal of Dairy Science</i> , 2014 , 10, 36-43	0.7	3
41	Isolation and Molecular Identification of Two Chitinase Producing Bacteria from Marine Shrimp Shell Wastes. <i>Pakistan Journal of Biological Sciences</i> , 2020 , 23, 139-149	0.8	4
40	Fermentative Production of Mycelial Chitosan from Zygomycetes: Media Optimization and Physico-Chemical Characterization. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2014 , 05, 940-956	0.9	14
39	Immobilization of Commercial Cellulase and Xylanase by Different Methods Using Two Polymeric Supports. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2014 , 05, 517-526	0.9	31
38	Chitosan/whey Protein (CWP) Edible Films Efficiency for Controlling Mould Growth and on Microbiological, Chemical and Sensory Properties During Storage of Għek Kashar Cheese. <i>Korean Journal for Food Science of Animal Resources</i> , 2015 , 35, 216-24		10
37	Wound healing and antibacterial activities of water-soluble chitosan nanoparticles and excretion/secretion as a natural combination from medicinal maggots, <i>Lucilia cuprina</i> . <i>Journal of Bioactive and Compatible Polymers</i> , 088391152110539	2	
36	Polymer Characterization Techniques. 2006 ,		
35	Analytical Methodologies of Chitosan in Functional Foods. 2012 , 513-544		
34	Chitosan: Drug Delivery Systems. 1709-1721		

33 Chitin and Derivatives. 1461-1469

32 Selected analyses of chitosan from dietary supplement on market: Development of modified methods for degree of deacetylation determination. *Hrana I Ishrana*, **2017**, 58, 27-34 0.1

31 Chitosan. **2021**, 1-18

30 Modified release properties of glutathione-based chitosan films: Physical and functional characterization. **2020**, 671-688

29 Chitosan Nanoparticles. **2020**, 197-215

28 The characteristic properties of chitosan irradiated by gamma rays. **2021**, 0

27 Extraction and characterization of Chitosan gained from oyster and fish shells and evaluation its application as antioxidant. *AIP Conference Proceedings*, **2022**, 0 0

26 Influence of deproteinization and demineralization process sequences on the physicochemical and structural characteristics of chitin isolated from Deep-sea mud shrimp (*Solenocera hextii*). *Advances in Biomarker Sciences and Technology*, **2022**, 4, 12-27 5.1 0

25 Chitosan. **2022**, 229-246 0

24 Deacetylation of chitin obtained by biological method and its application in melipona honey-incorporated antimicrobial biofilms. *MRS Advances*, **2021**, 6, 885-892 0.7 0

23 Chitosan Film Functionalized with Grape Seed Oil Preliminary Evaluation of Antimicrobial Activity. *Sustainability*, **2022**, 14, 5410 3.6 2

22 Chitosan-xanthan gum PEC-based aerogels: A chemically stable PEC in scCO₂. *Materials Chemistry and Physics*, **2022**, 287, 126294 4.4 1

21 Kinetics, isotherms and thermodynamics of oil spills removal by novel amphiphilic Chitosan-g-Octanal Schiff base polymer developed by click grafting technique. *Polymer Bulletin*, 2.4 0

20 Production of chitosan-based biodegradable active films using bio-waste enriched with polyphenol propolis extract envisaging food packaging applications. *International Journal of Biological Macromolecules*, **2022**, 213, 486-497 7.9 1

19 A facile approach for the determination of degree of deacetylation of chitosan using acid-base titration. *Heliyon*, **2022**, 8, e09924 3.6 0

18 Extraction of Chitosan with Different Physicochemical Properties from *Cunninghamella echinulata* (Thaxter) Thaxter for Biological Applications. *Applied Biochemistry and Biotechnology*, 3.2 1

17 Chitosan-Based Nanocomposites for Biological Applications. 0

16 The Structural Difference Between Chitin and Chitosan. **2022**, 79-102 0

15	Introduction to Chitosan and Chitosan-Based Nanocomposites. 2022 , 1-51	0
14	Facile production of chitin from shrimp shells using a deep eutectic solvent and acetic acid. 2022 , 12, 22631-22638	0
13	Advancement of Chitin and Chitosan as Promising Biomaterials. 2022 , 101561	1
12	A review: Silver/zinc oxide nanoparticles /organoclay-reinforced chitosan bionanocomposites for food packaging. 2022 , 20, 1155-1170	0
11	Formulation of Chitosan Microparticles for Enhanced Intranasal Macromolecular Compound Delivery: Factors That Influence Particle Size during Ionic Gelation. 2022 , 8, 686	1
10	Chitosan/hyaluronic acid polyanion bilayer applied from carbon acid as an advanced coating with intelligent antimicrobial properties for improved biological prosthetic heart valves. 2022 ,	0
9	Gamma Radiation Treated Chitosan Solution for Strawberry Preservation: Physico-Chemical Properties and Sensory Evaluation. 60, 30-37	0
8	Synthesis and characterization of thiazolium chitosan derivative with enhanced antimicrobial properties and its use as component of chitosan based films. 2023 , 302, 120438	2
7	Physicochemical Properties and Functional Characteristics of Ecologically Extracted Shrimp Chitosans with Different Organic Acids during Demineralization Step. 2022 , 27, 8285	1
6	Effects of Chitosan Molecular Weight and Degree of Deacetylation on Chitosan/Cellulose Nanocrystal Complexes and Their Formation. 2023 , 28, 1361	0
5	The Preparation and Physiochemical Characterization of Tenebrio molitor Chitin Using Alcalase. 2023 , 28, 3254	0
4	Extraction, quantification, characterization, and application in food packaging of chitin and chitosan from mushrooms: A review. 2023 , 237, 124195	0
3	Engineering mycelium fungi into an effective char-forming thermal protection material via alkaline deacetylation. 2023 , 212, 110355	0
2	Biomedical Applications of Chitosan-Based Nanostructured Composite Materials. 2023 , 81-107	0
1	Nanoencapsulation techniques for antimicrobial developments. 2023 , 23-59	0