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A new approach for the preparation of chitosan from  $\gamma$ -irradiation of prawn shell: effects of radiation on the characteristics of chitosan

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Polymer International, 2012, 61, 1302-1308.

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#	Paper	IF	Citations
56	Physicochemical properties and antioxidant activity of chitosan from the blowfly <i>Chrysomya megacephala</i> larvae. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 60, 347-54	7.9	91
55	Evaluation of Fat Binding Capacity of Gamma Irradiated Chitosan Extracted from Prawn Shell. <i>Soft Materials</i> , <b>2014</b> , 12, 262-267	1.7	16
54	Modification of the chitosan structure and properties using high-energy chemistry methods. <i>High Energy Chemistry</i> , <b>2014</b> , 48, 293-302	0.9	10
53	In vitro evaluation of spray-dried chitosan microspheres crosslinked with pyromellitic dianhydride for oral colon-specific delivery of protein drugs. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	8
52	Chitosan-based bioglass composite for bone tissue healing : Oxidative stress status and antiosteoporotic performance in a ovariectomized rat model. <i>Korean Journal of Chemical Engineering</i> , <b>2014</b> , 31, 1616-1623	2.8	16
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50	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. <i>Journal of Radiation Research and Applied Sciences</i> , <b>2015</b> , 8, 190-200	1.5	40
49	Preparation and Characterization of Multiwall Carbon Nanotube (MWCNT) Reinforced Chitosan Nanocomposites: Effect of Gamma Radiation. <i>BioNanoScience</i> , <b>2015</b> , 5, 31-38	3.4	7
48	Effect of molecular weight reduction by gamma irradiation on chitosan film properties. <i>Materials Science and Engineering C</i> , <b>2015</b> , 55, 174-80	8.3	24
47	Production of the low-molecular-weight chitin and chitosan forms in electron-beam plasma. <i>High Energy Chemistry</i> , <b>2016</b> , 50, 150-154	0.9	12
46	Fabrication and Characterization of Completely Biodegradable CopolyesterChitosan Blends: I. Spectroscopic and Thermal Characterization. <i>Macromolecular Symposia</i> , <b>2016</b> , 366, 23-34	0.8	11
45	Formation of low molecular weight oligomers from chitin and chitosan stimulated by plasma-assisted processes. <i>Carbohydrate Polymers</i> , <b>2017</b> , 163, 54-61	10.3	21
44	Core-shell drug carrier from folate conjugated chitosan obtained from prawn shell for targeted doxorubicin delivery. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2017</b> , 28, 55	4.5	30
43	Preparation and Characterization of Chitosan by a Novel Deacetylation Approach Using Glycerol as Green Reaction Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 4690-4698	8.3	49
42	Applications of Chitosan Derivatives in Wastewater Treatment. <b>2017</b> , 471-517		7
41	Facile Preparation of Biocomposite from Prawn Shell Derived Chitosan and Kaolinite-Rich Locally Available Clay. <i>International Journal of Polymer Science</i> , <b>2017</b> , 2017, 1-8	2.4	14
40	Processing and antibacterial properties of chitosan-coated alginate fibers. <i>Carbohydrate Polymers</i> , <b>2018</b> , 190, 31-42	10.3	58

39	Chitosan as A Preservative for Fruits and Vegetables: A Review on Chemistry and Antimicrobial Properties. <i>Journal of Bioresources and Bioproducts</i> , <b>2019</b> , 4, 11-21	18.7	106
38	Preparation and properties of biodegradable polymer/nano-hydroxyapatite bioceramic scaffold for spongy bone regeneration. <i>Journal of Polymer Engineering</i> , <b>2019</b> , 39, 134-142	1.4	18
37	Preparation and characterization of chitosan from crab shell ( <i>Portunus trituberculatus</i> ) by NaOH/urea solution freeze-thaw pretreatment procedure. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 147, 931-936	7.9	16
36	Chitin from Antarctic krill shell: Eco-preparation, detection, and characterization. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 164, 4125-4137	7.9	5
35	Biopolymer-Based Electrolytes for Dye-Sensitized Solar Cells: A Critical Review. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 15634-15671	4.1	24
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