

Mohamed Samir Abdel Aziz

List of Publications by Year in descending order

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26
papers

851
citations

430442

18
h-index

552369

26
g-index

26
all docs

26
docs citations

26
times ranked

811
citing authors

#	ARTICLE	IF	CITATIONS
1	Biobased alginate/castor oil edible films for active food packaging. <i>LWT - Food Science and Technology</i> , 2018, 96, 455-460.	2.5	96
2	Novel biodegradable and antibacterial edible films based on alginate and chitosan biguanidine hydrochloride. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 443-450.	3.6	87
3	Carboxymethyl cellulose/sodium alginate/chitosan biguanidine hydrochloride ternary system for edible coatings. <i>International Journal of Biological Macromolecules</i> , 2019, 139, 614-620.	3.6	72
4	Development of antibacterial carboxymethyl cellulose/chitosan biguanidine hydrochloride edible films activated with frankincense essential oil. <i>International Journal of Biological Macromolecules</i> , 2019, 139, 1162-1167.	3.6	69
5	Optimized carboxymethyl cellulose and guanidinylated chitosan enriched with titanium oxide nanoparticles of improved UV-barrier properties for the active packaging of green bell pepper. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1187-1197.	3.6	56
6	Optimized alginate and Aloe vera gel edible coating reinforced with nTiO ₂ for the shelf-life extension of tomatoes. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2693-2701.	3.6	49
7	Synthesis and thermal characterization of poly(ester-ether urethane)s based on PHB and PCL-PEG-PCL blocks. <i>Journal of Polymer Research</i> , 2011, 18, 1217-1227.	1.2	38
8	Developing multifunctional edible coatings based on alginate for active food packaging. <i>International Journal of Biological Macromolecules</i> , 2021, 190, 837-844.	3.6	35
9	Novel biocompatible and antimicrobial supramolecular O-carboxymethyl chitosan biguanidine/zinc physical hydrogels. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 649-656.	3.6	34
10	Thermal properties, crystallization and antimicrobial activity of chitosan biguanidine grafted poly(3-hydroxybutyrate) containing silver nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 19-27.	3.6	33
11	Effect of vinyl montmorillonite on the physical, responsive and antimicrobial properties of the optimized polyacrylic acid/chitosan superabsorbent via Box-Behnken model. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 840-848.	3.6	30
12	Development of active edible coating of alginate and aloe vera enriched with frankincense oil for retarding the senescence of green capsicums. <i>LWT - Food Science and Technology</i> , 2021, 145, 111341.	2.5	28
13	Non-isothermal crystallization kinetics of poly(3-hydroxybutyrate) in copoly(ester-urethane) nanocomposites based on poly(3-hydroxybutyrate) and cloisite 30B. <i>Thermochimica Acta</i> , 2015, 605, 52-62.	1.2	27
14	Thermal properties of biodegradable poly(PHB/PCL-PEG-PCL) urethanes nanocomposites using clay/poly(μ -caprolactone) nanohybrid based masterbatch. <i>Applied Clay Science</i> , 2012, 57, 55-63.	2.6	24
15	Nanocomposites Based on Chitosan-Graft-Poly(N-Vinyl-2-Pyrrolidone): Synthesis, Characterization, and Biological Activity. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015, 64, 578-586.	1.8	20
16	Nonisothermal crystallization behavior and molecular dynamics of poly(lactic acid) plasticized with joboba oil. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 211-223.	2.0	20
17	Antimicrobial and swelling behaviors of novel biodegradable corn starch grafted/poly(4-acrylamidobenzoic acid) copolymers. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 912-920.	3.6	20
18	Development of alginate-based edible coatings of optimized UV-barrier properties by response surface methodology for food packaging applications. <i>International Journal of Biological Macromolecules</i> , 2022, 212, 294-302.	3.6	19

#	ARTICLE	IF	CITATIONS
19	Diglycidyl ether of bisphenol A/chitosanâ€‹i>graft</i>â€‹polyaniline composites with electromagnetic interference shielding properties: Synthesis, characterization, and curing kinetics. Polymer Engineering and Science, 2019, 59, 372-381.	1.5	17
20	Effect of Organo-Modified Montmorillonite on Thermal Properties of Bacterial Poly(3-hydroxybutyrate). Polymer-Plastics Technology and Engineering, 2014, 53, 90-96.	1.9	15
21	Synthesis, Characterization, and Microbial Activity of Nanocomposites of Chitosan-Graft-Poly(4-vinyl Tj ETQq1 1 0.784314 rgBT /Ove 2015, 54, 1270-1279.	1.9	15
22	Non-isothermal crystallization kinetics of bacterial poly(3-hydroxybutyrate) in poly(3-hydroxybutyrate-co-butylene adipate) urethanes. Thermochimica Acta, 2014, 591, 130-139.	1.2	13
23	Cure kinetics and thermal stability of maleimide modified epoxy TGIC/CPE powder coating system. Thermochimica Acta, 2015, 617, 191-199.	1.2	13
24	Preparation and characterization of bioâ€‹based polyurethanes obtained from castor oil and poly (3â€‹hydroxybutyrate) and their nanocomposites. Polymer Composites, 2018, 39, E489.	2.3	10
25	Preparation and Characterization of Biodegradable Polyurethane Nanocomposites Based on Poly(3-hydroxybutyrate) and Poly(Butylene Adipate) Using Reactive Organoclay. Polymer-Plastics Technology and Engineering, 2014, 53, 1671-1681.	1.9	9
26	Development of Antibacterial Xanthan/Chitosan Biguanidine Hydrochloride Polyelectrolyte Complexes Decorated with Eco-friendly Prepared Silver Nanoparticles. Nanoscience and Nanotechnology - Asia, 2021, 11, .	0.3	2