

Tatiana A Akopova

List of Publications by Year in descending order

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66
papers

809
citations

516215

16
h-index

610482

24
g-index

66
all docs

66
docs citations

66
times ranked

867
citing authors

#	ARTICLE	IF	CITATIONS
1	The crystal structure of chitin and chitosan. <i>Polymer Science - Series A</i> , 2006, 48, 116-123.	0.4	79
2	DC discharge plasma modification of chitosan/gelatin/PLLA films: Surface properties, chemical structure and cell affinity. <i>Surface and Coatings Technology</i> , 2012, 207, 508-516.	2.2	48
3	Investigation of properties of chitosan obtained by solid-phase and suspension methods. <i>Journal of Applied Polymer Science</i> , 1998, 70, 927-933.	1.3	43
4	Poly lactide-based microspheres prepared using solid-state copolymerized chitosan and d, l-lactide. <i>Materials Science and Engineering C</i> , 2016, 59, 333-338.	3.8	37
5	Solid state production of cellulose-chitosan blends and their modification with the diglycidyl ether of oligo(ethylene oxide). <i>Polymer Degradation and Stability</i> , 2001, 73, 557-560.	2.7	30
6	DC Discharge Plasma Modification of Chitosan Films: An Effect of Chitosan Chemical Structure. <i>Plasma Processes and Polymers</i> , 2015, 12, 710-718.	1.6	27
7	Two-Photon-Induced Microstereolithography of Chitosan-g-Oligolactides as a Function of Their Stereochemical Composition. <i>Polymers</i> , 2017, 9, 302.	2.0	27
8	Nonwoven bilayered biodegradable chitosan-gelatin-poly lactide scaffold for bioengineering of tracheal epithelium. <i>Cell Proliferation</i> , 2019, 52, e12598.	2.4	27
9	Solid-state synthesis of unsaturated chitosan derivatives to design 3D structures through two-photon-induced polymerization. <i>Mendeleev Communications</i> , 2015, 25, 280-282.	0.6	25
10	Compatibility of cells of the nervous system with structured biodegradable chitosan-based hydrogel matrices. <i>Applied Biochemistry and Microbiology</i> , 2016, 52, 508-514.	0.3	22
11	Nanocomposites based on modified chitosan and titanium oxide. <i>Polymer Science - Series A</i> , 2006, 48, 638-643.	0.4	18
12	From Aggregates to Porous Three-Dimensional Scaffolds through a Mechanochemical Approach to Design Photosensitive Chitosan Derivatives. <i>Marine Drugs</i> , 2019, 17, 48.	2.2	18
13	Chitosan-g-oligo(L,L-lactide) copolymer hydrogel for nervous tissue regeneration in glutamate excitotoxicity: <i>in vitro</i> feasibility evaluation. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 015011.	1.7	18
14	Chitosan-g-oligo(L,L-lactide) Copolymer Hydrogel Potential for Neural Stem Cell Differentiation. <i>Tissue Engineering - Part A</i> , 2020, 26, 953-963.	1.6	18
15	Solvent-free synthesis and characterization of allyl chitosan derivatives. <i>RSC Advances</i> , 2019, 9, 20968-20975.	1.7	17
16	A Novel Approach to Design Chitosan-Polyester Materials for Biomedical Applications. <i>International Journal of Polymer Science</i> , 2012, 2012, 1-10.	1.2	16
17	Nanocrystalline Cellulose from Flax Stalks: Preparation, Structure, and Use. <i>Fibre Chemistry</i> , 2016, 48, 199-201.	0.0	16
18	Plasma Treatment of Poly(ethylene terephthalate) Films and Chitosan Deposition: DC- vs. AC-Discharge. <i>Materials</i> , 2020, 13, 508.	1.3	16

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19	Biocompatible Smart Microcapsules Based on Chitosan-Poly(vinyl alcohol) Copolymers for Cultivation of Animal Cells. <i>Advanced Engineering Materials</i> , 2011, 13, B493.	1.6	14
20	Macroporous hydrogels based on chitosan derivatives: Preparation, characterization, and <i>in vitro</i> evaluation. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	14
21	The study of the interaction between chitosan and 2,2-bis(hydroxymethyl)propionic acid during solid-phase synthesis. <i>Polymer Science - Series B</i> , 2011, 53, 358-370.	0.3	13
22	Preparation of Poly(L,L-Lactide) Microparticles via Pickering Emulsions Using Chitin Nanocrystals. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-8.	1.0	13
23	Solid-state synthesis of amphiphilic chitosan-polyethylene systems by the maleinization of both components. <i>Polymer Science - Series B</i> , 2009, 51, 124-134.	0.3	12
24	Hybrid nanocomposites based on graft copolymer of chitosan with poly(vinyl alcohol) and titanium oxide. <i>Nanotechnologies in Russia</i> , 2009, 4, 331-339.	0.7	12
25	Amphiphilic systems based on polysaccharides produced by solid-phase synthesis ~ A review. <i>Fibre Chemistry</i> , 2012, 44, 217-220.	0.0	12
26	Reactions of chitosan with solid carbonyl-containing compounds under shearing deformation conditions. <i>Mendeleev Communications</i> , 1998, 8, 107-109.	0.6	11
27	Modification of the chitosan structure and properties using high-energy chemistry methods. <i>High Energy Chemistry</i> , 2014, 48, 293-302.	0.2	11
28	Chitosan-g-Polyester Microspheres: Effect of Length and Composition of Grafted Chains. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900203.	1.7	11
29	Chitosan-g-oligo/poly(lactide) copolymer non-woven fibrous mats containing protein: from solid-state synthesis to electrospinning. <i>RSC Advances</i> , 2019, 9, 37652-37659.	1.7	11
30	Biodegradable Microparticles for Regenerative Medicine: A State of the Art and Trends to Clinical Application. <i>Polymers</i> , 2022, 14, 1314.	2.0	11
31	Immobilization of trypsin on polysaccharides upon intense mechanical treatment. <i>Russian Chemical Bulletin</i> , 2003, 52, 2073-2077.	0.4	10
32	Novel Biocompatible Material Based on Solid-State Modified Chitosan for Laser Stereolithography. <i>Sovremennye Tehnologii V Medicine</i> , 2015, 7, 20-31.	0.4	10
33	Solid state synthesis of chitosan and its unsaturated derivatives for laser microfabrication of 3D scaffolds. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 87, 012079.	0.3	9
34	Biodegradable Cell Microcarriers Based on Chitosan/Polyester Graft-Copolymers. <i>Molecules</i> , 2020, 25, 1949.	1.7	9
35	Effect of direct-current discharge treatment on the surface properties of chitosan-poly(L,L-lactide)-gelatin composite films. <i>High Energy Chemistry</i> , 2012, 46, 60-64.	0.2	8
36	Chitosan-g-lactide copolymers for fabrication of 3D scaffolds for tissue engineering. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 87, 012074.	0.3	7

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37	Hydrophobic Modification of Chitosan via Reactive Solvent-Free Extrusion. <i>Polymers</i> , 2021, 13, 2807.	2.0	7
38	Chitosan impregnation with biologically active tryaryl imidazoles in supercritical carbon dioxide. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 141.	1.7	6
39	Fabrication of microstructured materials based on chitosan and D,L-lactide copolymers using laser-induced microstereolithography. <i>High Energy Chemistry</i> , 2016, 50, 389-394.	0.2	6
40	Materials Based on Guar and Hydroxypropylguar Filled with Nanocrystalline Polysaccharides. <i>Fibre Chemistry</i> , 2017, 49, 188-194.	0.0	6
41	3D printing biodegradable scaffolds with chitosan materials for tissue engineering. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 347, 012009.	0.3	6
42	Coating of polylactide films by chitosan: Comparison of methods. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48287.	1.3	6
43	Polysaccharides as Stabilizers for Polymeric Microcarriers Fabrication. <i>Polymers</i> , 2021, 13, 3045.	2.0	6
44	Materials Based on Chitosan and Polylactide: From Biodegradable Plastics to Tissue Engineering Constructions. <i>Polymer Science - Series C</i> , 2021, 63, 219-226.	0.8	6
45	Investigation of interaction of chitosan with solid organic acids and anhydrides under conditions of shear deformation. <i>Journal of Applied Polymer Science</i> , 2000, 76, 616-622.	1.3	5
46	Electrospinning of nanofibers from water-soluble products from solid-phase grafting of polyvinyl alcohol to chitosan. <i>Fibre Chemistry</i> , 2012, 44, 149-152.	0.0	5
47	Fabrication of microstructured materials based on chitosan and its derivatives using two-photon polymerization. <i>High Energy Chemistry</i> , 2015, 49, 300-303.	0.2	5
48	Multicomponent Non-Woven Fibrous Mats with Balanced Processing and Functional Properties. <i>Polymers</i> , 2020, 12, 1911.	2.0	5
49	Polylactide microparticles stabilized by chitosan graft-copolymer as building blocks for scaffold fabrication via surface-selective laser sintering. <i>Journal of Materials Research</i> , 2022, 37, 933-942.	1.2	5
50	Study of cellulose-chitosan composites. Solid-phase modification, rheology, films. <i>Fibre Chemistry</i> , 2000, 32, 402-406.	0.0	4
51	Thermostimulated processes in starch-bis(hydroxymethyl)propionic acid mixtures subjected to high-pressure plastic deformation. <i>Polymer Science - Series A</i> , 2010, 52, 835-841.	0.4	4
52	Vacuum deposition of chitosan thin films by electron beam sputtering. <i>High Energy Chemistry</i> , 2015, 49, 213-215.	0.2	4
53	Solid-State Synthesis of Water-Soluble Chitosan-g-Hydroxyethyl Cellulose Copolymers. <i>Polymers</i> , 2020, 12, 611.	2.0	4
54	The Evolution of Surface-Selective Laser Sintering: Modifying and Forming 3D Structures for Tissue Engineering. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2020, 84, 1315-1320.	0.1	4

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55	A biocompatible nanocomposite based on allyl chitosan and vinyltriethoxysilane for tissue engineering. <i>Polymer Science - Series B</i> , 2017, 59, 97-108.	0.3	3
56	Application of micro- and nanocrystalline cellulose. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 347, 012006.	0.3	3
57	Deformation-Strength Properties of Films Derived from Hydroxyethylcellulose Filled with Micro- and Nanocrystalline Cellulose. <i>Fibre Chemistry</i> , 2020, 51, 340-345.	0.0	3
58	Effect of the Chemical Structure of Chitosan Copolymers with Oligolactides on the Morphology and Properties of Macroporous Hydrogels Based on Them. <i>Polymer Science - Series B</i> , 2021, 63, 536-543.	0.3	3
59	Title is missing!. <i>Fibre Chemistry</i> , 2003, 35, 21-26.	0.0	1
60	Supercritical Fluid Treatment of Three-Dimensional Hydrogel Matrices Obtained from Allylchitosan by Laser Stereolithography. <i>Russian Journal of Physical Chemistry B</i> , 2018, 12, 1144-1151.	0.2	1
61	Materials based on protein-contained chitosan-g-oligo-/polylactide copolymers synthesized through mechanochemical approach. <i>Materials Today: Proceedings</i> , 2020, 25, 490-492.	0.9	1
62	Polysaccharides modified in solid state as promising components for advanced materials. <i>Materials Today: Proceedings</i> , 2019, 12, 86-89.	0.9	0
63	Effect of Plasma Treatment on the Solubility of Chitosan Films. <i>High Energy Chemistry</i> , 2019, 53, 493-495.	0.2	0
64	Water-soluble copolymer compositions of polysaccharides for electrospinning of biomaterials. <i>Materials Today: Proceedings</i> , 2020, 25, 395-397.	0.9	0
65	Modification of the Chemical Structure, Morphology, and Cytocompatibility of Chitosan Films via Low-Frequency Plasma Treatment. <i>Applied Biochemistry and Microbiology</i> , 2022, 58, 118-125.	0.3	0
66	Laser Technology of Directional Microstructuring of Biodegradable Nonwovens. <i>High Energy Chemistry</i> , 2022, 56, 138-144.	0.2	0