Tatiana A Akopova

List of Publications by Citations

65	632	13	21
papers	citations	h-index	g-index
66	736	2.2	3.61
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
65	The crystal structure of chitin and chitosan. *Polymer Science - Series A*, **2006**, 48, 116-123	1.2	53
64	DC discharge plasma modification of chitosan/gelatin/PLLA films: Surface properties, chemical structure and cell affinity. *Surface and Coatings Technology*, **2012**, 207, 508-516	4.4	45
63	Investigation of properties of chitosan obtained by solid-phase and suspension methods. *Journal of Applied Polymer Science*, **1998**, 70, 927-933	2.9	39
62	Polylactide-based microspheres prepared using solid-state copolymerized chitosan and d,l-lactide. *Materials Science and Engineering C*, **2016**, 59, 333-338	8.3	32
61	Two-Photon-Induced Microstereolithography of Chitosan-g-Oligolactides as a Function of Their Stereochemical Composition. *Polymers*, **2017**, 9,	4.5	26
60	Solid state production of cellulose�hitosan blends and their modification with the diglycidyl ether of oligo(ethylene oxide). *Polymer Degradation and Stability*, **2001**, 73, 557-560	4.7	26
59	Solid-state synthesis of unsaturated chitosan derivatives to design 3D structures through two-photon-induced polymerization. *Mendeleev Communications*, **2015**, 25, 280-282	1.9	24
58	DC Discharge Plasma Modification of Chitosan Films: An Effect of Chitosan Chemical Structure. *Plasma Processes and Polymers*, **2015**, 12, 710-718	3.4	21
57	Non-woven bilayered biodegradable chitosan-gelatin-polylactide scaffold for bioengineering of tracheal epithelium. *Cell Proliferation*, **2019**, 52, e12598	7.9	19
56	Compatibility of cells of the nervous system with structured biodegradable chitosan-based hydrogel matrices. *Applied Biochemistry and Microbiology*, **2016**, 52, 508-514	1.1	19
55	Nanocrystalline Cellulose from Flax Stalks: Preparation, Structure, and Use. *Fibre Chemistry*, **2016**, 48, 199-201	0.6	15
54	Macroporous hydrogels based on chitosan derivatives: Preparation, characterization, and in vitro evaluation. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	14
53	From Aggregates to Porous Three-Dimensional Scaffolds through a Mechanochemical Approach to Design Photosensitive Chitosan Derivatives. *Marine Drugs*, **2019**, 17,	6	14
52	A Novel Approach to Design Chitosan-Polyester Materials for Biomedical Applications. *International Journal of Polymer Science*, **2012**, 2012, 1-10	2.4	13
51	Nanocomposites based on modified chitosan and titanium oxide. *Polymer Science - Series A*, **2006**, 48, 638-643	1.2	13
50	Preparation of Poly(L,L-Lactide) Microparticles via Pickering Emulsions Using Chitin Nanocrystals. *Advances in Materials Science and Engineering*, **2018**, 2018, 1-8	1.5	12
49	Solvent-free synthesis and characterization of allyl chitosan derivatives.. *RSC Advances*, **2019**, 9, 20968-20975	3.7	12

48	The study of the interaction between chitosan and 2,2-bis(hydroxymethyl)propionic acid during solid-phase synthesis. *Polymer Science - Series B*, **2011**, 53, 358-370	0.8	12
47	Biocompatible Smart Microcapsules Based on Chitosan-Poly(vinyl alcohol) Copolymers for Cultivation of Animal Cells. *Advanced Engineering Materials*, **2011**, 13, B493-B503	3.5	12
46	Hybrid nanocomposites based on graft copolymer of chitosan with poly(vinyl alcohol) and titanium oxide. *Nanotechnologies in Russia*, **2009**, 4, 331-339	0.6	12
45	Chitosan-g-oligo(L,L-lactide) copolymer hydrogel for nervous tissue regeneration in glutamate excitotoxicity: in vitro feasibility evaluation. *Biomedical Materials (Bristol)*, **2020**, 15, 015011	3.5	12
44	Chitosan--oligo(L,L-lactide) Copolymer Hydrogel Potential for Neural Stem Cell Differentiation. *Tissue Engineering - Part A*, **2020**, 26, 953-963	3.9	10
43	Modification of the chitosan structure and properties using high-energy chemistry methods. *High Energy Chemistry*, **2014**, 48, 293-302	0.9	10
42	Solid-state synthesis of amphiphilic chitosan-polyethylene systems by the maleinization of both components. *Polymer Science - Series B*, **2009**, 51, 124-134	0.8	10
41	Chitosan-g-Polyester Microspheres: Effect of Length and Composition of Grafted Chains. *Macromolecular Materials and Engineering*, **2019**, 304, 1900203	3.9	9
40	Reactions of chitosan with solid carbonyl-containing compounds under shearing deformation conditions. *Mendeleev Communications*, **1998**, 8, 107-109	1.9	9
39	Immobilization of trypsin on polysaccharides upon intense mechanical treatment. *Russian Chemical Bulletin*, **2003**, 52, 2073-2077	1.7	9
38	Chitosan--oligo/polylactide copolymer non-woven fibrous mats containing protein: from solid-state synthesis to electrospinning.. *RSC Advances*, **2019**, 9, 37652-37659	3.7	9
37	Solid state synthesis of chitosan and its unsaturated derivatives for laser microfabrication of 3D scaffolds. *IOP Conference Series: Materials Science and Engineering*, **2015**, 87, 012079	0.4	8
36	Amphiphilic systems based on polysaccharides produced by solid-phase synthesis A review. *Fibre Chemistry*, **2012**, 44, 217-220	0.6	8
35	Novel Biocompatible Material Based on Solid-State Modified Chitosan for Laser Stereolithography. *Sovremennye Tehnologii V Medicine*, **2015**, 7, 20-31	1.2	8
34	Plasma Treatment of Poly(ethylene terephthalate) Films and Chitosan Deposition: DC- vs. AC-Discharge. *Materials*, **2020**, 13,	3.5	7
33	Effect of direct-current discharge treatment on the surface properties of chitosan-poly(L,L-lactide)-gelatin composite films. *High Energy Chemistry*, **2012**, 46, 60-64	0.9	7
32	Biodegradable Cell Microcarriers Based on Chitosan/Polyester Graft-Copolymers. *Molecules*, **2020**, 25,	4.8	6
31	Fabrication of microstructured materials based on chitosan and its derivatives using two-photon polymerization. *High Energy Chemistry*, **2015**, 49, 300-303	0.9	5

30	Fabrication of microstructured materials based on chitosan and D,L-lactide copolymers using laser-induced microstereolithography. *High Energy Chemistry*, **2016**, 50, 389-394	0.9	5
29	Materials Based on Guar and Hydroxypropylguar Filled with Nanocrystalline Polysaccharides. *Fibre Chemistry*, **2017**, 49, 188-194	0.6	5
28	Chitosan-g-lactide copolymers for fabrication of 3D scaffolds for tissue engineering. *IOP Conference Series: Materials Science and Engineering*, **2015**, 87, 012074	0.4	5
27	Electrospinning of nanofibers from water-soluble products from solid-phase grafting of polyvinyl alcohol to chitosan. *Fibre Chemistry*, **2012**, 44, 149-152	0.6	5
26	Investigation of interaction of chitosan with solid organic acids and anhydrides under conditions of shear deformation. *Journal of Applied Polymer Science*, **2000**, 76, 616-622	2.9	5
25	Chitosan impregnation with biologically active tryaryl imidazoles in supercritical carbon dioxide. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 141	4.5	4
24	3D printing biodegradable scaffolds with chitosan materials for tissue engineering. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012009	0.4	4
23	Vacuum deposition of chitosan thin films by electron beam sputtering. *High Energy Chemistry*, **2015**, 49, 213-215	0.9	4
22	A biocompatible nanocomposite based on allyl chitosan and vinyltriethoxysilane for tissue engineering. *Polymer Science - Series B*, **2017**, 59, 97-108	0.8	3
21	Application of micro- and nanocrystalline cellulose. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012006	0.4	3
20	Thermostimulated processes in starch-bis(hydroxymethyl)propionic acid mixtures subjected to high-pressure plastic deformation. *Polymer Science - Series A*, **2010**, 52, 835-841	1.2	3
19	Study of cellulose-chitosan composites. Solid-phase modification, rheology, films. *Fibre Chemistry*, **2000**, 32, 402-406	0.6	3
18	The Evolution of Surface-Selective Laser Sintering: Modifying and Forming 3D Structures for Tissue Engineering. *Bulletin of the Russian Academy of Sciences: Physics*, **2020**, 84, 1315-1320	0.4	3
17	Multicomponent Non-Woven Fibrous Mats with Balanced Processing and Functional Properties. *Polymers*, **2020**, 12,	4.5	3
16	Coating of polylactide films by chitosan: Comparison of methods. *Journal of Applied Polymer Science*, **2020**, 137, 48287	2.9	3
15	Deformation-Strength Properties of Films Derived from Hydroxyethylcellulose Filled with Micro- and Nanocrystalline Cellulose. *Fibre Chemistry*, **2020**, 51, 340-345	0.6	2
14	Solid-State Synthesis of Water-Soluble Chitosan-g-Hydroxyethyl Cellulose Copolymers. *Polymers*, **2020**, 12,	4.5	2
13	Materials Based on Chitosan and Polylactide: From Biodegradable Plastics to Tissue Engineering Constructions. *Polymer Science - Series C*, **2021**, 63, 219-226	1.1	2

12	Effect of the Chemical Structure of Chitosan Copolymers with Oligolactides on the Morphology and Properties of Macroporous Hydrogels Based on Them. *Polymer Science - Series B*, **2021**, 63, 536-543	0.8	2
11	Hydrophobic Modification of Chitosan via Reactive Solvent-Free Extrusion. *Polymers*, **2021**, 13,	4.5	2
10	Properties of Polymer Composites Based on Polysaccharides and Their Fabrication in Conditions of Solid-Phase Deformation under Pressure. *Fibre Chemistry*, **2003**, 35, 21-26	0.6	1
9	Supercritical Fluid Treatment of Three-Dimensional Hydrogel Matrices Obtained from Allylchitosan by Laser Stereolithography. *Russian Journal of Physical Chemistry B*, **2018**, 12, 1144-1151	1.2	1
8	Polysaccharides as Stabilizers for Polymeric Microcarriers Fabrication. *Polymers*, **2021**, 13,	4.5	1
7	Materials based on protein-contained chitosan-g-oligo-/polylactide copolymers synthesized through mechanochemical approach. *Materials Today: Proceedings*, **2020**, 25, 490-492	1.4	0
6	Polylactide microparticles stabilized by chitosan graft-copolymer as building blocks for scaffold fabrication via surface-selective laser sintering. *Journal of Materials Research*, **2022**, 37, 933-942	2.5	0
5	Polysaccharides modified in solid state as promising components for advanced materials. *Materials Today: Proceedings*, **2019**, 12, 86-89	1.4	
4	Water-soluble copolymer compositions of polysaccharides for electrospinning of biomaterials. *Materials Today: Proceedings*, **2020**, 25, 395-397	1.4	
3	Effect of Plasma Treatment on the Solubility of Chitosan Films. *High Energy Chemistry*, **2019**, 53, 493-495	0.9	
2	Modification of the Chemical Structure, Morphology, and Cytocompatibility of Chitosan Films via Low-Frequency Plasma Treatment. *Applied Biochemistry and Microbiology*, **2022**, 58, 118-125	1.1	
1	Laser Technology of Directional Microstructuring of Biodegradable Nonwovens. *High Energy Chemistry*, **2022**, 56, 138-144	0.9	