Tatiana Demina

List of Publications by Year in Descending Order

55 papers	479 citations	12 h-index	18 g-index
61 ext. papers	575 ext. citations	2.2 avg, IF	3.55 L-index

#	Paper	IF	Citations
55	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
54	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	
53	Laser Technology of Directional Microstructuring of Biodegradable Nonwovens. *High Energy Chemistry*, **2022**, 56, 138-144	0.9	
52	Materials Based on Chitosan and Polylactide: From Biodegradable Plastics to Tissue Engineering Constructions. *Polymer Science - Series C*, **2021**, 63, 219-226	1.1	2
51	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
50	Biodegradable Microparticles for Bone Tissue Regeneration Based on Polylactide and Hydroxyapatite Nanoparticles. *Nanobiotechnology Reports*, **2021**, 16, 505-509		0
49	Hydrophobic Modification of Chitosan via Reactive Solvent-Free Extrusion. *Polymers*, **2021**, 13,	4.5	2
48	Polysaccharides as Stabilizers for Polymeric Microcarriers Fabrication. *Polymers*, **2021**, 13,	4.5	1
47	Wettability and aging of polylactide films as a function of AC-discharge plasma treatment conditions. *Journal of Physics: Conference Series*, **2020**, 1492, 012001	0.3	2
46	Deformation-Strength Properties of Films Derived from Hydroxyethylcellulose Filled with Micro- and Nanocrystalline Cellulose. *Fibre Chemistry*, **2020**, 51, 340-345	0.6	2
45	Solid-State Synthesis of Water-Soluble Chitosan-g-Hydroxyethyl Cellulose Copolymers. *Polymers*, **2020**, 12,	4.5	2
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	Plasma Treatment of Poly(ethylene terephthalate) Films and Chitosan Deposition: DC- vs. AC-Discharge. *Materials*, **2020**, 13,	3.5	7
42	Water-soluble copolymer compositions of polysaccharides for electrospinning of biomaterials. *Materials Today: Proceedings*, **2020**, 25, 395-397	1.4	
41	Materials based on protein-contained chitosan-g-oligo-/polylactide copolymers synthesized through mechanochemical approach. *Materials Today: Proceedings*, **2020**, 25, 490-492	1.4	0
40	Biodegradable Cell Microcarriers Based on Chitosan/Polyester Graft-Copolymers. *Molecules*, **2020**, 25,	4.8	6
39	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

38	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
37	Multicomponent Non-Woven Fibrous Mats with Balanced Processing and Functional Properties. *Polymers*, **2020**, 12,	4.5	3
36	Coating of polylactide films by chitosan: Comparison of methods. *Journal of Applied Polymer Science*, **2020**, 137, 48287	2.9	3
35	Solid-state modified polylactides for processing of 3D materials with enhanced biocompatibility. *Materials Today: Proceedings*, **2019**, 12, 93-96	1.4	1
34	Non-woven bilayered biodegradable chitosan-gelatin-polylactide scaffold for bioengineering of tracheal epithelium. *Cell Proliferation*, **2019**, 52, e12598	7.9	19
33	Chitosan-g-Polyester Microspheres: Effect of Length and Composition of Grafted Chains. *Macromolecular Materials and Engineering*, **2019**, 304, 1900203	3.9	9
32	Solvent-free synthesis and characterization of allyl chitosan derivatives.. *RSC Advances*, **2019**, 9, 20968-20975	3.7	12
31	Effect of Plasma Treatment on the Solubility of Chitosan Films. *High Energy Chemistry*, **2019**, 53, 493-495	0.9	
30	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
29	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
28	Application of micro- and nanocrystalline cellulose. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012006	0.4	3
27	3D printing biodegradable scaffolds with chitosan materials for tissue engineering. *IOP Conference Series: Materials Science and Engineering*, **2018**, 347, 012009	0.4	4
26	Application of high-energy chemistry methods to the modification of the structure and properties of polylactide (a review). *High Energy Chemistry*, **2017**, 51, 302-314	0.9	13
25	Materials Based on Guar and Hydroxypropylguar Filled with Nanocrystalline Polysaccharides. *Fibre Chemistry*, **2017**, 49, 188-194	0.6	5
24	Macroporous hydrogels based on chitosan derivatives: Preparation, characterization, and in vitro evaluation. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	14
23	Transport of the colloid matter of riverine runoff through estuaries. *Oceanology*, **2017**, 57, 520-529	0.7	8
22	Two-Photon-Induced Microstereolithography of Chitosan-g-Oligolactides as a Function of Their Stereochemical Composition. *Polymers*, **2017**, 9,	4.5	26
21	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

20	Chitosan impregnation with biologically active tryaryl imidazoles in supercritical carbon dioxide. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 141	4.5	4
19	Nanocrystalline Cellulose from Flax Stalks: Preparation, Structure, and Use. *Fibre Chemistry*, **2016**, 48, 199-201	0.6	15
18	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
17	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
16	A study of the viscosity of hyaluronic acid solutions for the preparation of polyelectrolyte complexes with chitosan. *Russian Chemical Bulletin*, **2016**, 65, 273-276	1.7	2
15	Biodegradablescaffolds based on chitosan: Preparation, properties, and use for the cultivation of animal cells. *Applied Biochemistry and Microbiology*, **2016**, 52, 515-524	1.1	10
14	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
13	Fabrication of microstructured materials based on chitosan and its derivatives using two-photon polymerization. *High Energy Chemistry*, **2015**, 49, 300-303	0.9	5
12	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
11	DC Discharge Plasma Modification of Chitosan Films: An Effect of Chitosan Chemical Structure. *Plasma Processes and Polymers*, **2015**, 12, 710-718	3.4	21
10	Vacuum deposition of chitosan thin films by electron beam sputtering. *High Energy Chemistry*, **2015**, 49, 213-215	0.9	4
9	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
8	Novel Biocompatible Material Based on Solid-State Modified Chitosan for Laser Stereolithography. *Sovremennye Tehnologii V Medicine*, **2015**, 7, 20-31	1.2	8
7	Modification of the chitosan structure and properties using high-energy chemistry methods. *High Energy Chemistry*, **2014**, 48, 293-302	0.9	10
6	New surface-enhanced Raman scattering platforms: composite calcium carbonate microspheres coated with astralen and silver nanoparticles. *Langmuir*, **2013**, 29, 4140-7	4	28
5	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
4	Amphiphilic systems based on polysaccharides produced by solid-phase synthesis A review. *Fibre Chemistry*, **2012**, 44, 217-220	0.6	8
3	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

2	A Novel Approach to Design Chitosan-Polyester Materials for Biomedical Applications. *International Journal of Polymer Science*, **2012**, 2012, 1-10	2.4	13
1	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