

# Tatiana Demina

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	DC discharge plasma modification of chitosan/gelatin/PLLA films: Surface properties, chemical structure and cell affinity. <i>Surface and Coatings Technology</i> , <b>2012</b> , 207, 508-516	4.4	45
54	Poly lactide-based microspheres prepared using solid-state copolymerized chitosan and d,l-lactide. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 333-338	8.3	32
53	New surface-enhanced Raman scattering platforms: composite calcium carbonate microspheres coated with astralen and silver nanoparticles. <i>Langmuir</i> , <b>2013</b> , 29, 4140-7	4	28
52	Two-Photon-Induced Microstereolithography of Chitosan-g-Oligolactides as a Function of Their Stereochemical Composition. <i>Polymers</i> , <b>2017</b> , 9,	4.5	26
51	Solid-state synthesis of unsaturated chitosan derivatives to design 3D structures through two-photon-induced polymerization. <i>Mendeleev Communications</i> , <b>2015</b> , 25, 280-282	1.9	24
50	DC Discharge Plasma Modification of Chitosan Films: An Effect of Chitosan Chemical Structure. <i>Plasma Processes and Polymers</i> , <b>2015</b> , 12, 710-718	3.4	21
49	Non-woven bilayered biodegradable chitosan-gelatin-poly lactide scaffold for bioengineering of tracheal epithelium. <i>Cell Proliferation</i> , <b>2019</b> , 52, e12598	7.9	19
48	Compatibility of cells of the nervous system with structured biodegradable chitosan-based hydrogel matrices. <i>Applied Biochemistry and Microbiology</i> , <b>2016</b> , 52, 508-514	1.1	19
47	Nanocrystalline Cellulose from Flax Stalks: Preparation, Structure, and Use. <i>Fibre Chemistry</i> , <b>2016</b> , 48, 199-201	0.6	15
46	Macroporous hydrogels based on chitosan derivatives: Preparation, characterization, and in vitro evaluation. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	14
45	Application of high-energy chemistry methods to the modification of the structure and properties of polylactide (a review). <i>High Energy Chemistry</i> , <b>2017</b> , 51, 302-314	0.9	13
44	A Novel Approach to Design Chitosan-Polyester Materials for Biomedical Applications. <i>International Journal of Polymer Science</i> , <b>2012</b> , 2012, 1-10	2.4	13
43	Preparation of Poly(L,L-Lactide) Microparticles via Pickering Emulsions Using Chitin Nanocrystals. <i>Advances in Materials Science and Engineering</i> , <b>2018</b> , 2018, 1-8	1.5	12
42	Solvent-free synthesis and characterization of allyl chitosan derivatives.. <i>RSC Advances</i> , <b>2019</b> , 9, 20968-20975	0.7	12
41	The study of the interaction between chitosan and 2,2-bis(hydroxymethyl)propionic acid during solid-phase synthesis. <i>Polymer Science - Series B</i> , <b>2011</b> , 53, 358-370	0.8	12
40	Chitosan-g-oligo(L,L-lactide) copolymer hydrogel for nervous tissue regeneration in glutamate excitotoxicity: in vitro feasibility evaluation. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> , 15, 015011	3.5	12
39	Chitosan--oligo(L,L-lactide) Copolymer Hydrogel Potential for Neural Stem Cell Differentiation. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 953-963	3.9	10

38	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
37	Biodegradable scaffolds based on chitosan: Preparation, properties, and use for the cultivation of animal cells. <i>Applied Biochemistry and Microbiology</i> , <b>2016</b> , 52, 515-524	1.1	10
36	Chitosan-g-Polyester Microspheres: Effect of Length and Composition of Grafted Chains. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900203	3.9	9
35	Chitosan--oligo/polylactide copolymer non-woven fibrous mats containing protein: from solid-state synthesis to electrospinning.. <i>RSC Advances</i> , <b>2019</b> , 9, 37652-37659	3.7	9
34	Solid state synthesis of chitosan and its unsaturated derivatives for laser microfabrication of 3D scaffolds. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 87, 012079	0.4	8
33	Transport of the colloid matter of riverine runoff through estuaries. <i>Oceanology</i> , <b>2017</b> , 57, 520-529	0.7	8
32	Amphiphilic systems based on polysaccharides produced by solid-phase synthesis [A review]. <i>Fibre Chemistry</i> , <b>2012</b> , 44, 217-220	0.6	8
31	Novel Biocompatible Material Based on Solid-State Modified Chitosan for Laser Stereolithography. <i>Sovremennye Tehnologii V Medicine</i> , <b>2015</b> , 7, 20-31	1.2	8
30	Plasma Treatment of Poly(ethylene terephthalate) Films and Chitosan Deposition: DC- vs. AC-Discharge. <i>Materials</i> , <b>2020</b> , 13,	3.5	7
29	Effect of direct-current discharge treatment on the surface properties of chitosan-poly(L,L-lactide)-gelatin composite films. <i>High Energy Chemistry</i> , <b>2012</b> , 46, 60-64	0.9	7
28	Biodegradable Cell Microcarriers Based on Chitosan/Polyester Graft-Copolymers. <i>Molecules</i> , <b>2020</b> , 25,	4.8	6
27	Fabrication of microstructured materials based on chitosan and its derivatives using two-photon polymerization. <i>High Energy Chemistry</i> , <b>2015</b> , 49, 300-303	0.9	5
26	Fabrication of microstructured materials based on chitosan and D,L-lactide copolymers using laser-induced microstereolithography. <i>High Energy Chemistry</i> , <b>2016</b> , 50, 389-394	0.9	5
25	Materials Based on Guar and Hydroxypropylguar Filled with Nanocrystalline Polysaccharides. <i>Fibre Chemistry</i> , <b>2017</b> , 49, 188-194	0.6	5
24	Chitosan-g-lactide copolymers for fabrication of 3D scaffolds for tissue engineering. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 87, 012074	0.4	5
23	Chitosan impregnation with biologically active tryaryl imidazoles in supercritical carbon dioxide. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 141	4.5	4
22	3D printing biodegradable scaffolds with chitosan materials for tissue engineering. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 347, 012009	0.4	4
21	Vacuum deposition of chitosan thin films by electron beam sputtering. <i>High Energy Chemistry</i> , <b>2015</b> , 49, 213-215	0.9	4

20	Application of micro- and nanocrystalline cellulose. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 347, 012006	0.4	3
19	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> , <b>2020</b> , 84, 1315-1320	0.4	3
18	Multicomponent Non-Woven Fibrous Mats with Balanced Processing and Functional Properties. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
17	Coating of polylactide films by chitosan: Comparison of methods. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48287	2.9	3
16	Wettability and aging of polylactide films as a function of AC-discharge plasma treatment conditions. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1492, 012001	0.3	2
15	Deformation-Strength Properties of Films Derived from Hydroxyethylcellulose Filled with Micro- and Nanocrystalline Cellulose. <i>Fibre Chemistry</i> , <b>2020</b> , 51, 340-345	0.6	2
14	Solid-State Synthesis of Water-Soluble Chitosan-g-Hydroxyethyl Cellulose Copolymers. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
13	A study of the viscosity of hyaluronic acid solutions for the preparation of polyelectrolyte complexes with chitosan. <i>Russian Chemical Bulletin</i> , <b>2016</b> , 65, 273-276	1.7	2
12	Materials Based on Chitosan and Polylactide: From Biodegradable Plastics to Tissue Engineering Constructions. <i>Polymer Science - Series C</i> , <b>2021</b> , 63, 219-226	1.1	2
11	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> , <b>2021</b> , 63, 536-543	0.8	2
10	Hydrophobic Modification of Chitosan via Reactive Solvent-Free Extrusion. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
9	Solid-state modified polylactides for processing of 3D materials with enhanced biocompatibility. <i>Materials Today: Proceedings</i> , <b>2019</b> , 12, 93-96	1.4	1
8	Polysaccharides as Stabilizers for Polymeric Microcarriers Fabrication. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
7	Materials based on protein-contained chitosan-g-oligo-/polylactide copolymers synthesized through mechanochemical approach. <i>Materials Today: Proceedings</i> , <b>2020</b> , 25, 490-492	1.4	0
6	Biodegradable Microparticles for Bone Tissue Regeneration Based on Polylactide and Hydroxyapatite Nanoparticles. <i>Nanobiotechnology Reports</i> , <b>2021</b> , 16, 505-509		0
5	Polylactide microparticles stabilized by chitosan graft-copolymer as building blocks for scaffold fabrication via surface-selective laser sintering. <i>Journal of Materials Research</i> , <b>2022</b> , 37, 933-942	2.5	0
4	Water-soluble copolymer compositions of polysaccharides for electrospinning of biomaterials. <i>Materials Today: Proceedings</i> , <b>2020</b> , 25, 395-397	1.4	
3	Effect of Plasma Treatment on the Solubility of Chitosan Films. <i>High Energy Chemistry</i> , <b>2019</b> , 53, 493-495	0.9	

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| 2 | Modification of the Chemical Structure, Morphology, and Cytocompatibility of Chitosan Films via Low-Frequency Plasma Treatment. <i>Applied Biochemistry and Microbiology</i> , <b>2022</b> , 58, 118-125 | 1.1 |
| 1 | Laser Technology of Directional Microstructuring of Biodegradable Nonwovens. <i>High Energy Chemistry</i> , <b>2022</b> , 56, 138-144  | 0.9 |