Irina Lipatova

List of Publications by Year in Descending Order

53 papers	229 citations	7 h-index	11 g-index
53 ext. papers	267 ext. citations	2.4 avg, IF	3.87 L-index

#	Paper	IF	Citations
53	Functional films based on mechanoactivated starch with prolonged release of preservative. *Food Bioscience*, **2022**, 47, 101694	4.9	1
52	Polyurethane and styrene-acrylic copolymer as modifiers for starch composites preparation under the mechanochemical activation: A multifactorial approach. *Materials Letters*, **2022**, 322, 132502	3.3	0
51	Rutin-containing chitosan films produced using in situ mechanoactivated precipitation process. *Food Hydrocolloids*, **2021**, 110, 106157	10.6	6
50	Effect of mechanical activation on starch crosslinking with citric acid. *International Journal of Biological Macromolecules*, **2021**, 185, 688-695	7.9	3
49	Fabrication and characterization of starch films containing chitosan nanoparticles using in situ precipitation and mechanoactivation techniques. *Journal of Food Engineering*, **2021**, 304, 110593	6	4
48	Dual-Mode Solution Plasma Processing for the Production of Chitosan/Ag Composites with the Antibacterial Effect. *Materials*, **2020**, 13,	3.5	9
47	Effect of composition and mechanoactivation on the properties of films based on starch and chitosans with high and low deacetylation. *Carbohydrate Polymers*, **2020**, 239, 116245	10.3	10
46	Rheological, dynamic mechanical and transport properties of compatibilized starch/synthetic copolymer blends. *European Polymer Journal*, **2019**, 120, 109209	5.2	9
45	Effect of hyaluronic acid on the State and photoactivity of Zn(II) phthalocyanine cationic derivative in mixed aqueous solutions. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 382, 111927	4.7	2
44	Supramolecular Self-Assembly and Phase Transformations in Aqueous Systems Based on Chitosan and Sulfonated Metallophthalocyanines. *Russian Journal of General Chemistry*, **2019**, 89, 612-618	0.7	
43	Preparation of Submicron Chitosan-Alginate Particles and Study of Their Selective Sorption Properties with Respect to Amphiphilic Organic Compounds. *Russian Journal of General Chemistry*, **2019**, 89, 1324-1331	0.7	1
42	Gelation in solutions of low deacetylated chitosan initiated by high shear stresses. *International Journal of Biological Macromolecules*, **2019**, 139, 550-557	7.9	5
41	The influence of the combined impact of shear stress and cavitation on the structure and sorption properties of chitin. *Carbohydrate Polymers*, **2019**, 209, 320-327	10.3	9
40	Adsorption of Anionic Metallophthalocyanines on Submicron Chitosan-Sulfate Particles in Aqueous Dispersions. *Russian Journal of General Chemistry*, **2019**, 89, 2733-2740	0.7	
39	Photoactivity inhibition of zinc phthalocyanine choline derivatives (Cholosens) by sodium alginate. *Dyes and Pigments*, **2018**, 155, 42-50	4.6	5
38	Application of Hydroacoustic Treatment for Intensification of Alkaline Deacetylation of Chitin. *Russian Journal of General Chemistry*, **2018**, 88, 356-361	0.7	7
37	Supramolecular complexation of the cationic derivative of Zn (II) phthalocyanine and sodium alginate in mixed aqueous solutions. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 364, 588-594	4.7	6

36	Sorption of Phthalocyanine Dyes by Chitosan-Sulfate Particles Immobilized on a Fiber Substrate. *Protection of Metals and Physical Chemistry of Surfaces*, **2018**, 54, 574-581	0.9	4
35	Adsorption removal of anionic dyes from aqueous solutions by chitosan nanoparticles deposited on the fibrous carrier. *Chemosphere*, **2018**, 212, 1155-1162	8.4	42
34	Influence of the composition and high shear stresses on the structure and properties of hybrid materials based on starch and synthetic copolymer. *Carbohydrate Polymers*, **2018**, 196, 368-375	10.3	10
33	Functionalization of synthetic fibrous materials using nanosized polymer carriers. *Russian Journal of General Chemistry*, **2017**, 87, 1378-1385	0.7	3
32	Features of chitosan interaction with copper(II) and cobalt(II) tetrasulfophthalocyanines. *Russian Journal of General Chemistry*, **2017**, 87, 2327-2331	0.7	4
31	The effect of mechanical activation on the structure and sorption activity of chitin. *Protection of Metals and Physical Chemistry of Surfaces*, **2017**, 53, 801-806	0.9	5
30	Supramolecular Complexation of Sulfonated Aluminum Phthalocyanine and Chitosan in the Mixed Aqueous Solutions. *Macroheterocycles*, **2017**, 10, 334-339	2.2	5
29	A spectrophotometric study of the complexation between methylene blue dye and sodium alginate. *Russian Journal of General Chemistry*, **2016**, 86, 2226-2231	0.7	4
28	Plasma-chemical destruction and modification of chitosan in solution. *High Energy Chemistry*, **2016**, 50, 411-415	0.9	7
27	Effect of hydroacoustic treatment on the state and gel-forming capacity of starch suspensions. *Russian Journal of Applied Chemistry*, **2015**, 88, 661-668	0.8	4
26	Effects of Fillers and Mechanical Activation on the Structure and Properties of Chitosan Films. *Fibre Chemistry*, **2015**, 46, 363-367	0.6	
25	Effect of peroxide depolymerization of chitosan on properties of chitosan sulfate particles produced from this substance. *Russian Journal of Applied Chemistry*, **2015**, 88, 1576-1581	0.8	6
24	Formation of the dispersed phase in mixed solutions of chitosan and magnesium sulfate. *Russian Journal of Applied Chemistry*, **2014**, 87, 830-835	0.8	7
23	Rheological and Film-Forming Properties of Mixed Sodium Alginate and Hyaluronate Solutions. *Fibre Chemistry*, **2014**, 46, 143-146	0.6	0
22	Mechanically initiated gelation in solutions of chitosan with low degree of deacetylation. *Russian Journal of Applied Chemistry*, **2013**, 86, 545-551	0.8	
21	A spectrophotometric study of the ionic complexation between chitosan and anionic dyes. *Russian Journal of Applied Chemistry*, **2013**, 86, 575-580	0.8	6
20	Influence of Mechanical Treatment on the Structure and Properties of Chitosan Solutions and Films Based on Them. *Fibre Chemistry*, **2013**, 45, 209-213	0.6	1
19	Mechanoacoustic method for production of composite Chitosan finishing agents for textile materials. *Russian Journal of General Chemistry*, **2013**, 83, 205-213	0.7	3

18	Synthesis of chitosan-mineral sorbents on fibrous supports and study of their properties. *Russian Journal of Applied Chemistry*, **2012**, 85, 1059-1063	0.8	3
17	Effect of mechanical activation on rheological and film-forming properties of suspensions of barium sulfate in chitosan solutions. *Russian Journal of Applied Chemistry*, **2011**, 84, 486-490	0.8	3
16	Effect of filler nature and mechanical activation on rheological properties of suspensions based on chitosan solutions. *Russian Journal of Applied Chemistry*, **2011**, 84, 1371-1376	0.8	
15	Effect of the composition and mechanical activation of aerosil suspensions in chitosan solutions on properties of films formed from these suspensions. *Russian Journal of Applied Chemistry*, **2011**, 84, 2065-2070	0.8	5
14	Effect of hydroacoustic treatment on structural organization of chitosan solutions. *Russian Journal of Applied Chemistry*, **2010**, 83, 139-144	0.8	3
13	Mechanical activation of chitin in aqueous and alcoholic suspensions. *Russian Journal of Applied Chemistry*, **2010**, 83, 145-150	0.8	2
12	Prediction of the dispersity of starch hydrogels prepared under hydroacoustic treatment. *Russian Journal of Applied Chemistry*, **2010**, 83, 1309-1313	0.8	4
11	Effect of a hydroacoustic treatment on the state of chitosan solutions containing a solid filler. *Russian Journal of Applied Chemistry*, **2009**, 82, 439-444	0.8	1
10	Prediction of the dispersity of ultrasonically treated starch hydrogels. *Russian Journal of Applied Chemistry*, **2009**, 82, 1070-1073	0.8	
9	Effect of hydroacoustic treatment on the state of aqueous solutions of sodium alginate. *Russian Journal of Applied Chemistry*, **2008**, 81, 810-814	0.8	
8	Effect of hydroacoustic treatment on the rate of hydrolytic degradation of chitosan in acetic acid solutions. *Russian Journal of Applied Chemistry*, **2008**, 81, 815-819	0.8	3
7	Chemical effects of hydroacoustic treatment in starch hydrogels. *Russian Journal of Applied Chemistry*, **2008**, 81, 1369-1374	0.8	
6	Effect of hydroacoustic treatment on chitosan dissolution in aqueous acetic acid solutions. *Russian Journal of Applied Chemistry*, **2008**, 81, 2112-2117	0.8	1
5	Mechanical degradation of gelatinized starch upon hydroacoustic treatment. *Russian Journal of Applied Chemistry*, **2006**, 79, 1532-1537	0.8	4
4	Influence of Surfactants on the State of Starch Hydrogels under High Shear Stresses. *Russian Journal of Applied Chemistry*, **2003**, 76, 434-438	0.8	
3	Rate of Acid Hydrolysis of Starch as Influenced by Intensive Mechanical Effects. *Russian Journal of Applied Chemistry*, **2003**, 76, 997-1001	0.8	8
2	Effect of Ultrasonic Field on the State of Starch Hydrogels. *Russian Journal of Applied Chemistry*, **2002**, 75, 526-530	0.8	2
1	Structural Transformation of Starch Hydrogels Exposed to Strong Mechanical Field. *Russian Journal of Applied Chemistry*, **2001**, 74, 1563-1567	0.8	2