Vadim Zakharov

List of Publications by Year in Descending Order

67 papers	138 citations	6 h-index	7 g-index
68 ext. papers	153 ext. citations	0.9 avg, IF	2.42 L-index

#	Paper	IF	Citations
67	Thermal properties of polymer compounds based on recycled polypropylene and polyethylene. *Letters on Materials*, **2022**, 12, 59-64	0.9	
66	Possibility of Producing Semisolid Dosage Forms Based on Aqueous Solutions of Chitosan Succinamide in the Presence of Modification Additives. *Russian Journal of Applied Chemistry*, **2020**, 93, 65-71	0.8	1
65	Physico-mechanical and thermophysical properties of composites based on secondary polypropylene modified with ultra-high molecular weight polyethylene. *Letters on Materials*, **2020**, 10, 404-409	0.9	
64	Study of the effect of photooxidative processes on the surface morphology and physico-mechanical characteristics of biodegradable materials based on secondary polypropylene and chalk additives. *Letters on Materials*, **2020**, 10, 288-293	0.9	2
63	Study of the Influence of Plant-Based Filler on the Physicomechanical Properties and Processing Parameters of a Composite Based on Secondary Polymer Raw Materials. *Theoretical Foundations of Chemical Engineering*, **2020**, 54, 745-749	0.9	
62	Kinetics of Isoprene Polymerization in the Presence of the Catalytic System NdCl3 nCH3CH(OH)CH3-Al(i-C4H9)3-Piperylene. *Russian Journal of Physical Chemistry B*, **2019**, 13, 170-176	1.2	1
61	Rheological Properties of Chitosan Succinimide in Water-Glycerol Mixed Solvent. *Russian Journal of Applied Chemistry*, **2019**, 92, 50-56	0.8	2
60	Effect of Physical Factors during the Preparation of a Reaction Mixture in Turbulent Flows on the Rate of Butadiene Polymerization in the Presence of TiCl4-Al(i-C4H9)3 and Molecular Mass Characteristics of Butadiene Rubber. *Russian Journal of Physical Chemistry B*, **2019**, 13, 349-353	1.2	
59	Kinetics of Butadiene Polymerization in the Presence of the TiCl4-Al(i-C4H9)3 Catalytic System Physically Modified in Turbulent Flows: Results of Computational Experiments. *Russian Journal of Applied Chemistry*, **2019**, 92, 1200-1209	0.8	
58	Assessment of rheological behavior of secondary polymeric raw materials in the conditions corresponding to processing of polymers by method of extrusion and injection molding. *Letters on Materials*, **2019**, 9, 70-74	0.9	2
57	Receiving Elastoviscous Systems on the Basis of Aqueous Solution of Acetate and Succinimide of Chitosan in the Presence of Polyhydric Alcohols. *Chemistry and Chemical Technology*, **2019**, 13, 352-359	0.9	1
56	Improving the Technological Scheme of Isolation of ButaneButylene Fraction by Chemisorption Using Tubular Turbulent Apparatus. *Theoretical Foundations of Chemical Engineering*, **2019**, 53, 741-746	0.9	0
55	Study of thermal properties of biodegradable composite materials based on recycled polypropylene. *Letters on Materials*, **2018**, 8, 485-488	0.9	4
54	Ways to improve physico-mechanical properties of polymer composites on the basis of secondary polypropylene and natural extenders. *Letters on Materials*, **2018**, 8, 406-409	0.9	3
53	A Study of the Viscosity Characteristics of Chitosan Solutions in the Presence of Organic Cosolvents. *Russian Journal of Physical Chemistry B*, **2018**, 12, 1039-1044	1.2	4
52	Medical Materials Based on Chitosan SuccinamideGlycerol Systems. *Applied Biochemistry and Microbiology*, **2018**, 54, 474-477	1.1	6
51	Enhancement of the Efficiency of Selective Hydrogenation of Acetylene Hydrocarbons in the ButyleneButadiene Fraction during Butadiene-1,3 Production. *Petroleum Chemistry*, **2018**, 58, 905-909	1.1	1

50	Relationships between the activities of the growth centers of macromolecules in the $TiCl_4$–$Al(i\text{-}C_4H_9)_3$ catalytic system and the particle size of its catalytically active residue. *Russian Journal of Physical Chemistry A*, **2017**, 91, 1855-1860	0.7	1
49	Modeling of the physicochemical hydrodynamics of the synthesis of butadiene rubber on the $TiCl_4$–$Al(i\text{-}C_4H_9)_3$ catalytic system modified in turbulizing flows. *Russian Journal of Physical Chemistry B*, **2017**, 11, 504-512	1.2	5
48	Macrokinetics of Polybutadiene Production on a Titanium Ziegler–Natta Catalyst System Prepared in Turbulent Flows. *Theoretical Foundations of Chemical Engineering*, **2017**, 51, 1002-1011	0.9	1
47	Evaluation of the efficiency of using a tubular turbulent apparatus in the step of titanium catalyst preparation in isoprene rubber production. *Russian Journal of Applied Chemistry*, **2016**, 89, 960-964	0.8	1
46	The role of low-molecular-mass electrolyte drug substances in the modification of the chitosan matrix. *Polymer Science - Series B*, **2015**, 57, 244-251	0.8	2
45	Low-toxic nitrogen-containing antioxidant for polyvinyl chloride. *Russian Journal of Applied Chemistry*, **2015**, 88, 626-629	0.8	
44	Structural bases for neurophysiological investigations of amygdaloid complex of the brain. *Scientific Reports*, **2015**, 5, 17052	4.9	1
43	Preparation of Enzyme-Containing Chitosan Films. *Pharmaceutical Chemistry Journal*, **2015**, 49, 196-198	0.9	4
42	Kinetics of the enzymatic hydrolysis of chitosan films. *Russian Journal of Physical Chemistry B*, **2015**, 9, 237-241	1.2	4
41	Kinetic inhomogeneity of titanium- and neodymium-based catalysts for the production of cis-1,4-polyisoprene. *Russian Journal of Physical Chemistry B*, **2015**, 9, 300-305	1.2	5
40	Use of a turbulent prereactor for affecting the site multiplicity of a titanium catalyst for (co)polymerization of butadiene and isoprene. *Russian Journal of Applied Chemistry*, **2014**, 87, 613-618	0.8	1
39	Preparation of an adhesion-reducing agent for synthetic caoutchouc in a tubular turbulent apparatus. *Russian Journal of Applied Chemistry*, **2014**, 87, 114-118	0.8	
38	Creating Chitosan-Based Prolonged-Release Film Coatings. *Pharmaceutical Chemistry Journal*, **2014**, 48, 543-545	0.9	
37	Improvement of the neodymium catalyst preparation step in isoprene rubber production. *Russian Journal of Applied Chemistry*, **2013**, 86, 909-913	0.8	7
36	The effect of the disperse composition of a titanium catalyst on the kinetic heterogeneity of isoprene polymerization centers. *Polymer Science - Series B*, **2013**, 55, 497-507	0.8	6
35	Enhancement of the activity of a neodymium catalyst for the synthesis of stereoregular polyisoprene. *Russian Journal of Applied Chemistry*, **2012**, 85, 945-948	0.8	6
34	Method of composition heterogeneity reduction in copolymer of butadiene with isoprene in ionic coordination polymerization with supported titanium catalysts. *Russian Journal of Applied Chemistry*, **2012**, 85, 1269-1274	0.8	
33	Synthesizing polyisoprene on titaniumium catalysts modified in turbulent flows. *Catalysis in Industry*, **2012**, 4, 174-178	0.8	3

32	Effect of the hydrodynamic action on the microstructure of butadiene-isoprene copolymers. *Doklady Chemistry*, **2011**, 440, 270-272	0.8	1
31	Topochemical aspects of the complexation of neodymium chloride with isopropyl alcohol in the synthesis of a catalyst for stereospecific isoprene polymerization. *Doklady Chemistry*, **2011**, 440, 286-288	0.8	3
30	Modification of titanium catalytic systems for 1,4-cis-polyisoprene synthesis. *Russian Journal of Applied Chemistry*, **2011**, 84, 133-137	0.8	1
29	Enhancement of the activity of the titanium catalyst for isoprene polymerization by improving the step of active site formation. *Russian Journal of Applied Chemistry*, **2011**, 84, 1434-1437	0.8	6
28	The effect of synthesis conditions on the microheterogeneity of the butadiene-isoprene copolymer. *Polymer Science - Series B*, **2011**, 53, 166-170	0.8	
27	Polymerization of butadiene and isoprene in the presence of a titanium catalytic system under ultrasonic irradiation. *Polymer Science - Series B*, **2011**, 53, 375-384	0.8	1
26	Relationship of the microheterogeneity of isoprene-butadiene copolymers with the kinetic heterogeneity of active sites. *Doklady Chemistry*, **2010**, 435, 286-288	0.8	2
25	Kinetic inhomogeneity of copolymerization sites of butadiene and isoprene on titanium catalyst. *Polymer Science - Series B*, **2010**, 52, 450-458	0.8	3
24	Synthesis of stereoregular polybutadiene under ultrasonic treatment. *Doklady Chemistry*, **2009**, 429, 321-323	0.8	
23	Reducing consumption of titanium catalyst in stereospecific polymerization of butadiene. *Russian Journal of Applied Chemistry*, **2009**, 82, 1085-1089	0.8	
22	Diffusion control of butadiene polymerization on a kinetically nonuniform titanium catalyst. *Doklady Chemistry*, **2008**, 422, 245-247	0.8	1
21	Activity of butadiene polymerization centers at in situ formation of titanium catalysts. *Russian Journal of Applied Chemistry*, **2008**, 81, 1612-1617	0.8	0
20	Kinetic nonuniformity of a titanium catalyst in the polymerization of butadiene: Effect of intensifying stirring of the reaction mixture. *Polymer Science - Series B*, **2008**, 50, 351-355	0.8	5
19	Polymerization of butadiene on a titanium catalyst in formation of a reaction mixture in turbulent flows. *Russian Journal of Applied Chemistry*, **2007**, 80, 1130-1134	0.8	11
18	Longitudinal mixing in fast liquid-phase chemical reactions in a two-phase mixture. *Russian Journal of Applied Chemistry*, **2006**, 79, 403-407	0.8	
17	Synthesis of antiagglomeration agent based on calcium stearate for synthetic rubbers in tubular apparatus. *Russian Journal of Applied Chemistry*, **2006**, 79, 1844-1848	0.8	1
16	Decrease in Content of Insoluble Fraction in cis-1,4-Polyisoprene in Formation of Titanium Catalyst in Turbulent Flow. *Russian Journal of Applied Chemistry*, **2005**, 78, 765-768	0.8	
15	Formation of Reaction Mixture in the Course of Preparation of cis-1,4-Polyisoprene in the Turbulent Mode. *Russian Journal of Applied Chemistry*, **2004**, 77, 299-302	0.8	

14	Effect of the Flow Pattern on the Convective Heat Transfer Efficiency in Tubular Apparatuses. *Theoretical Foundations of Chemical Engineering*, **2004**, 38, 499-502	0.9	
13	Intensification of gas-liquid processes in tubular turbulent apparatus. *Russian Journal of Applied Chemistry*, **2004**, 77, 1822-1825	0.8	6
12	Influence of turbulent mixing on fast polymerization reactions. *Journal of Applied Polymer Science*, **2004**, 94, 613-624	2.9	3
11	Fast Reactions in Polymer Syntheses. *Russian Journal of Applied Chemistry*, **2003**, 76, 264-270	0.8	2
10	Operating Conditions of Flow-Type Tubular Turbulent Reactors for Performing Fast Reactions. *Doklady Physical Chemistry*, **2003**, 392, 250-252	0.8	
9	Convective Heat Transfer in Tubular Turbulent Apparatuses. *Doklady Physical Chemistry*, **2003**, 392, 282-284	0.8	
8	Unconventional Method for Obtaining Homogeneous Highly Dispersed Suspensions. *Russian Journal of Applied Chemistry*, **2003**, 76, 1264-1267	0.8	1
7	Multiphase Flows in Divergent–Convergent Tubular Apparatuses. *Doklady Chemistry*, **2002**, 382, 50-53	0.8	1
6	Preparation of Homogeneous Emulsions in Tubular Turbulent Apparatus of Diffuser-Confuser Design. *Russian Journal of Applied Chemistry*, **2002**, 75, 1430-1433	0.8	1
5	Plug-Flow Tubular Turbulent Reactors: A New Type of Industrial Apparatus. *Theoretical Foundations of Chemical Engineering*, **2001**, 35, 162-167	0.9	11
4	Raising the Coefficient of Turbulent Diffusion in the Reaction Zone as Means To Improve Technical and Economical Parameters of Polymer Production. *Russian Journal of Applied Chemistry*, **2001**, 74, 90-94	0.8	1
3	A Nontraditional Way of Affecting The Molecular Characteristics of Polyolefins and Polydienes. *Doklady Physical Chemistry*, **2001**, 381, 288-291	0.8	
2	Turbulent Mixing of Liquid Flows in Divergent–Convergent Tubular Continuous-Flow Apparatuses. *Doklady Chemistry*, **2001**, 381, 336-339	0.8	3
1	On the formation of macrostructures of mixing fronts for reacting and neutral streams. *Theoretical Foundations of Chemical Engineering*, **2000**, 34, 197-198	0.9	