

# Sergey Ilyin

## List of Publications by Year in descending order

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104  
papers

2,185  
citations

218381

26  
h-index

288905

40  
g-index

108  
all docs

108  
docs citations

108  
times ranked

1215  
citing authors

#	ARTICLE	IF	CITATIONS
1	The rheology of gelatin hydrogels modified by $\hat{\rho}$ -carrageenan. <i>LWT - Food Science and Technology</i> , 2015, 63, 612-619.	2.5	122
2	Asphaltenes in heavy crude oil: Designation, precipitation, solutions, and effects on viscosity. <i>Journal of Petroleum Science and Engineering</i> , 2016, 147, 211-217.	2.1	113
3	A modern look on yield stress fluids. <i>Rheologica Acta</i> , 2017, 56, 177-188.	1.1	84
4	Rheological comparison of light and heavy crude oils. <i>Fuel</i> , 2016, 186, 157-167.	3.4	82
5	Rheological Evidence of Gel Formation in Dilute Poly(acrylonitrile) Solutions. <i>Macromolecules</i> , 2013, 46, 257-266.	2.2	78
6	Basic Fundamentals of Petroleum Rheology and Their Application for the Investigation of Crude Oils of Different Natures. <i>Energy &amp; Fuels</i> , 2018, 32, 268-278.	2.5	68
7	Viscoplasticity and stratified flow of colloid suspensions. <i>Soft Matter</i> , 2012, 8, 2607.	1.2	47
8	Hydrophobic nanosilica-stabilized graphite particles for improving thermal conductivity of paraffin wax-based phase-change materials. <i>Journal of Energy Storage</i> , 2021, 36, 102417.	3.9	47
9	Structure, rheology and possible application of water-in-oil emulsions stabilized by asphaltenes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 618, 126442.	2.3	45
10	Effect of enhanced oil recovery on the composition and rheological properties of heavy crude oil. <i>Journal of Petroleum Science and Engineering</i> , 2021, 203, 108641.	2.1	44
11	Some Compositional Viscosity Correlations for Crude Oils from Russia and Norway. <i>Energy &amp; Fuels</i> , 2016, 30, 9322-9328.	2.5	42
12	The rheological state of suspensions in varying the surface area of nano-silica particles and molecular weight of the poly(ethylene oxide) matrix. <i>Colloid and Polymer Science</i> , 2017, 295, 555-563.	1.0	40
13	Effect of silica and clay minerals on rheology of heavy crude oil emulsions. <i>Fuel</i> , 2018, 232, 290-298.	3.4	39
14	Epoxy reinforcement with silicate particles: Rheological and adhesive properties Part I: Characterization of composites with natural and organically modified montmorillonites. <i>International Journal of Adhesion and Adhesives</i> , 2015, 61, 127-136.	1.4	38
15	Sol-gel transition and rheological properties of silica nanoparticle dispersions. <i>Colloid Journal</i> , 2016, 78, 608-615.	0.5	38
16	Rheology and tribology of ester-based greases with microcrystalline cellulose and organomodified montmorillonite. <i>Tribology International</i> , 2020, 148, 106318.	3.0	38
17	Rheological and tribological properties of low-temperature greases based on cellulose acetate butyrate gel. <i>Carbohydrate Polymers</i> , 2021, 272, 118509.	5.1	38
18	Rheological and adhesive properties of nanocomposite bitumen binders based on hydrophilic or hydrophobic silica and modified with bio-oil. <i>Construction and Building Materials</i> , 2022, 342, 127946.	3.2	38

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19	Gels of cysteine/Ag-based dilute colloid systems and their rheological properties. <i>Soft Matter</i> , 2011, 7, 9090.	1.2	36
20	Diffusion and phase separation at the morphology formation of cellulose membranes by regeneration from N-methylmorpholine N-oxide solutions. <i>Cellulose</i> , 2018, 25, 2515-2530.	2.4	36
21	Effect of Chain Structure on the Rheological Properties of Vinyl Acetate-Vinyl Alcohol Copolymers in Solution and Bulk. <i>Macromolecules</i> , 2014, 47, 4790-4804.	2.2	35
22	Rheology and adhesive properties of filled PIB-based pressure-sensitive adhesives. I. Rheology and shear resistance. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 1831-1848.	1.4	35
23	Rheological and adhesive properties of PIB-based pressure-sensitive adhesives with montmorillonite-type nanofillers. <i>European Polymer Journal</i> , 2016, 76, 228-244.	2.6	35
24	Rheological properties of polyethylene/metaboric acid thermoplastic blends. <i>Rheologica Acta</i> , 2014, 53, 467-475.	1.1	34
25	Unusual rheological effects observed in polyacrylonitrile solutions. <i>Polymer Science - Series A</i> , 2013, 55, 503-509.	0.4	31
26	Phase state and rheology of polyisobutylene blends with silicone resin. <i>Rheologica Acta</i> , 2020, 59, 375-386.	1.1	29
27	Phase behavior and rheology of miscible and immiscible blends of linear and hyperbranched siloxane macromolecules. <i>Materials Today Communications</i> , 2020, 22, 100833.	0.9	27
28	Morphology and Rheology of Heavy Crude Oil/Water Emulsions Stabilized by Microfibrillated Cellulose. <i>Energy &amp; Fuels</i> , 2021, 35, 6527-6540.	2.5	27
29	The rheological characterisation of typical injection implants based on hyaluronic acid for contour correction. <i>Rheologica Acta</i> , 2016, 55, 223-233.	1.1	26
30	Epoxy reinforcement with silicate particles: Rheological and adhesive properties - Part II: Characterization of composites with halloysite. <i>International Journal of Adhesion and Adhesives</i> , 2016, 68, 248-255.	1.4	26
31	Rheological properties of road bitumens modified with polymer and solid nanosized additives. <i>Colloid Journal</i> , 2014, 76, 425-434.	0.5	23
32	Heavy crude oil asphaltenes as a nanofiller for epoxy resin. <i>Polymer Engineering and Science</i> , 2020, 60, 1530-1545.	1.5	22
33	Compatibility and rheology of bio-oil blends with light and heavy crude oils. <i>Fuel</i> , 2022, 314, 122761.	3.4	22
34	Application of large amplitude oscillatory shear for the analysis of polymer material properties in the nonlinear mechanical behavior. <i>Polymer Science - Series A</i> , 2014, 56, 98-110.	0.4	21
35	Rheological characteristics of different carbon nanoparticles in cholesteric mesogen dispersions as lubricant coolant additives. <i>Journal of Friction and Wear</i> , 2015, 36, 380-385.	0.1	21
36	Rheological peculiarities of concentrated suspensions. <i>Colloid Journal</i> , 2012, 74, 472-482.	0.5	20

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37	Effect of the Asphaltene, Resin, and Wax Contents on the Physicochemical Properties and Quality Parameters of Crude Oils. <i>Petroleum Chemistry</i> , 2017, 57, 1141-1143.	0.4	20
38	Rheological and Tribological Properties of Lubricating Greases Based on Esters and Polyurea Thickeners. <i>Petroleum Chemistry</i> , 2018, 58, 1064-1069.	0.4	20
39	Acceleration of epoxy resin curing by using a combination of aliphatic and aromatic amines. <i>Polymer Bulletin</i> , 2020, 77, 1519-1540.	1.7	20
40	From Polyacrylonitrile, Its Solutions, and Filaments to Carbon Fibers: I. Phase State and Rheology of Basic Polymers and Their Solutions. <i>Advances in Polymer Technology</i> , 2018, 37, 1076-1084.	0.8	19
41	Oxidative Functionalization of Asphaltenes from Heavy Crude Oil. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 1835-1840.	0.1	19
42	Phase state and rheology of polyisobutylene mixtures with decyl surface modified silica nanoparticles. <i>Polymer Science - Series A</i> , 2014, 56, 798-811.	0.4	17
43	Specific features of the copolymerization of acrylonitrile and acrylamide in the presence of low-molecular-mass and polymeric trithiocarbonates and properties of the obtained copolymers. <i>Polymer Science - Series B</i> , 2014, 56, 553-565.	0.3	17
44	Epoxy nanocomposites as matrices for aramid fiber-reinforced plastics. <i>Polymer Composites</i> , 2018, 39, E2167.	2.3	17
45	Rheology of aqueous poly(ethylene oxide) solutions reinforced with bentonite clay. <i>Colloid Journal</i> , 2013, 75, 267-273.	0.5	16
46	Mechanistic study of transesterification in TBD-catalyzed ring-opening polymerization of methyl ethylene phosphate. <i>European Polymer Journal</i> , 2019, 118, 393-403.	2.6	16
47	Rheological properties of emulsions formed by polymer solutions and modified by nanoparticles. <i>Colloid and Polymer Science</i> , 2015, 293, 1647-1654.	1.0	15
48	Kinetics of Curing of Epoxy Oligomer by Diaminodiphenyl Sulfone: Rheology and Calorimetry. <i>Polymer Science - Series A</i> , 2018, 60, 683-690.	0.4	15
49	Fabrication of microfiltration membranes from polyisobutylene/polymethylpentene blends. <i>Polymer International</i> , 2020, 69, 165-172.	1.6	15
50	Sulfonated polyoxadiazole synthesis and processing into ion-conducting films. <i>Polymer International</i> , 2020, 69, 1243-1255.	1.6	15
51	Deasphalting of heavy crude oil by hexamethyldisiloxane: The effect of a solvent/oil ratio on the structure, composition, and properties of precipitated asphaltenes. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109329.	2.1	15
52	Miscibility and rheological properties of epoxy resin blends with aromatic polyethers. <i>Polymer Science - Series A</i> , 2015, 57, 177-185.	0.4	14
53	Flow of heavy crude oil-in-water emulsions in long capillaries simulating pipelines. <i>Journal of Petroleum Science and Engineering</i> , 2017, 157, 117-123.	2.1	14
54	Specific Features of Greases Based on Poly- $\alpha$ -olefin Oils with Ureate Thickeners of Various Structures. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 1735-1741.	0.1	14

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55	A novel method for producing cellulose nanoparticles and their possible application as thickeners for biodegradable low-temperature greases. <i>Cellulose</i> , 2021, 28, 10203-10219.	2.4	14
56	The Effect of Tackifier on the Properties of Pressure-Sensitive Adhesives Based on Styrene-Butadiene-Styrene Rubber. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 1945-1956.	0.1	13
57	Composites Based on Polystyrene and Asphaltenes. <i>Russian Journal of Applied Chemistry</i> , 2019, 92, 1712-1717.	0.1	13
58	Polyethylene wax as an alternative to mineral fillers for preparation of reinforced pressure-sensitive adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2020, 102, 102689.	1.4	13
59	Adhesive properties of liquid crystalline hydroxypropyl cellulose-propylene glycol blends. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 1629-1643.	1.4	12
60	Viscosity of polyacrylonitrile solutions: The effect of the molecular weight. <i>Polymer Science - Series A</i> , 2015, 57, 494-500.	0.4	12
61	Cellulose-co-polyacrylonitrile blends: Properties of combined solutions in N-methylmorpholine-N-oxide and the formation and thermolysis of composite fibers. <i>Polymer Science - Series C</i> , 2016, 58, 74-84.	0.8	12
62	Solutions of acrylonitrile copolymers in N-methylmorpholine-N-oxide: Structure, properties, fiber spinning. <i>European Polymer Journal</i> , 2017, 92, 326-337.	2.6	12
63	Asphaltenes as a tackifier for hot-melt adhesives based on the styrene-isoprene-styrene block copolymer. <i>Polymer Engineering and Science</i> , 2020, 60, 2224-2234.	1.5	12
64	Methylenealkane-Based Low-Viscosity Ester Oils: Synthesis and Outlook. <i>Lubricants</i> , 2020, 8, 50.	1.2	11
65	Two-functional phase-change pressure-sensitive adhesives based on polyisobutylene matrix filled with paraffin wax. <i>Journal of Energy Storage</i> , 2022, 52, 104797.	3.9	11
66	Pressure losses in flow of viscoelastic polymeric fluids through short channels. <i>Journal of Rheology</i> , 2014, 58, 433-448.	1.3	10
67	Effect of coagulating agent viscosity on the kinetics of formation, morphology, and transport properties of cellulose nanofiltration membranes. <i>Polymer Science - Series A</i> , 2017, 59, 676-684.	0.4	10
68	On the Possibility of a Radical Increase in Thermal Conductivity by Dispersed Particles. <i>Russian Journal of Applied Chemistry</i> , 2020, 93, 1796-1814.	0.1	10
69	Hydrogenation of Indene-Coumarone Resin on Palladium Catalysts for Use in Polymer Adhesives. <i>Russian Journal of Applied Chemistry</i> , 2019, 92, 1143-1152.	0.1	9
70	A Study on the Structure and Adhesive Properties of Epoxy-Silicate Composites. <i>Mechanics of Composite Materials</i> , 2014, 50, 661-668.	0.9	8
71	Formation of Porous Films with Hydrophobic Surface from a Blend of Polymers. <i>Polymer Science - Series A</i> , 2019, 61, 619-626.	0.4	8
72	The Use of Branching Agents in the Synthesis of PBAT. <i>Polymers</i> , 2022, 14, 1720.	2.0	8

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73	Phase state and rheology of organosilicon nanocomposites with functionalized hyperbranched nanoparticles. <i>Polymer Science - Series A</i> , 2016, 58, 987-995.	0.4	7
74	Effect of surface contamination on the durability and strength of stainless steel " polyisobutylene pressure-sensitive adhesive bonds. <i>International Journal of Adhesion and Adhesives</i> , 2019, 95, 102434.	1.4	7
75	The Effect of the Nature of a Coagulant on the Nanofiltration Properties of Cellulose Membranes Formed from Solutions in Ionic Media. <i>Membranes and Membrane Technologies</i> , 2020, 2, 149-158.	0.6	7
76	Rheological, thermophysical, and morphological features of original and hydrogenated bio-oils. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4425-4433.	2.5	7
77	Synthesis, molecular structure and catalytic performance of heterocycle-fused cyclopentadienyl-amido CGC of Ti (IV) in ethylene (co)polymerization: The formation and precision rheometry of long-chain branched polyethylenes. <i>European Polymer Journal</i> , 2022, 176, 111397.	2.6	7
78	Rheological and Mechanical Properties of Epoxy Composites Modified with Montmorillonite Nanoparticles. <i>International Polymer Science and Technology</i> , 2012, 39, 57-61.	0.1	6
79	Non-linearity in rheological properties of polymers and composites under large amplitude oscillatory shear. <i>Polymer Science - Series A</i> , 2015, 57, 910-923.	0.4	6
80	Structure and rheology of aqueous poly(vinyl acetate) dispersions modified with montmorillonite. <i>Colloid Journal</i> , 2017, 79, 588-595.	0.5	6
81	Effect of Thickener Nature on Properties of Polyurealubricant Compositions Based on Esters. <i>Chemistry and Technology of Fuels and Oils</i> , 2020, 55, 689-696.	0.2	6
82	A Recursive Model of the Spread of COVID-19: Modelling Study. <i>JMIR Public Health and Surveillance</i> , 2021, 7, e21468.	1.2	6
83	Rheological and Adhesion Properties of Hot-Melt Adhesives Based on Hydrocarbon Resins and Poly(ethylene-vinyl acetate). <i>Polymer Science - Series A</i> , 2021, 63, 283-295.	0.4	6
84	Bio-Oil: Production, Modification, and Application. <i>Chemistry and Technology of Fuels and Oils</i> , 0, , 1.	0.2	6
85	Gelation in dilute aqueous L-cysteine-AgNO <sub>3</sub> solutions. <i>Colloid Journal</i> , 2011, 73, 646-650.	0.5	5
86	Formation of Microfiltration Membranes from PMP/PIB Blends: Effect of PIB Molecular Weight on Membrane Properties. <i>Membranes</i> , 2020, 10, 9.	1.4	5
87	Effect of Synthesis Medium on the Structure and Physicochemical Properties of Biomineral Composites Based on Hydroxyapatite and Hyaluronic Acid. <i>Polymer Science - Series B</i> , 2020, 62, 61-71.	0.3	5
88	Rheological properties of high-concentration suspensions used for obtaining electrorheological media. <i>Journal of Engineering Physics and Thermophysics</i> , 2011, 84, 1016-1025.	0.2	4
89	Rheological and phase behavior of polyamidobenzimidazole solutions under the effect of temperature and deformation. <i>Polymer Science - Series A</i> , 2013, 55, 186-191.	0.4	4
90	Phase structure and properties of blends based on polystyrene and carbosilane dendrimers. <i>Polymer Science - Series A</i> , 2015, 57, 586-595.	0.4	4

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91	Rheology and adhesive properties of filled PIB-based pressure-sensitive adhesives. II. Probe attack and 90° peel testing. Journal of Adhesion Science and Technology, 2015, 29, 2635-2647.	1.4	4
92	Formation and Catalytic Behavior Of Fine Iron-Containing Composite Fischer-Tropsch Catalysts in a Slurry Reactor. Petroleum Chemistry, 2017, 57, 1318-1325.	0.4	4
93	Phase equilibrium and rheology of poly(1-trimethylsilyl-1-propyne) solutions. Polymer Science - Series A, 2017, 59, 1-11.	0.4	3
94	Fabrication of cellulose-based composite membranes for organic solvent nanofiltration. Journal of Physics: Conference Series, 2018, 1099, 012039.	0.3	3
95	Phase Separation of Polymethylpentene Solutions for Producing Microfiltration Membranes. Polymer Science - Series A, 2020, 62, 292-299.	0.4	3
96	Synthesis and Properties of Sulfonated Copolymers of Oxadiazole, Dioxophenoxathiine, and Diphenyl Oxide. Polymer Science - Series B, 2020, 62, 47-60.	0.3	3
97	Mesophase state and shear-affected phase separation of poly(p-phenylene-benzimidazole-terephthalamide) solutions in N,N-dimethylacetamide. Journal of Polymer Research, 2022, 29, .	1.2	3
98	Rheological evidence for the existence of subphases in the liquid crystalline 4-n-alkoxybenzoic acids. Liquid Crystals, 2015, , 1-12.	0.9	2
99	Rheological properties of associates of ionic monomers with micelles of oppositely charged surfactants. Russian Chemical Bulletin, 2016, 65, 1161-1166.	0.4	2
100	Rheological properties of acrylonitrile-acrylamide-styrene copolymer solutions synthesized by classical and controlled radical polymerizations. Russian Chemical Bulletin, 2017, 66, 711-716.	0.4	2
101	Cyclic ethylene phosphates with $(CH_2)_nCOOR$ and $CH_2CONMe_2$ substituents: synthesis and mechanistic insights of diverse reactivity in aryloxy-Mg complex-catalyzed (co)polymerization. Polymer Chemistry, 2021, 12, 6937-6951.	1.9	2
102	Epoxy Nanocomposites Curing Rheokinetics, Wetting and Adhesion to Fibers. AIP Conference Proceedings, 2010, , .	0.3	1
103	The role of chain structure in the rheological behavior of vinyl acetate-vinyl alcohol copolymers. Polymer Science - Series A, 2014, 56, 196-204.	0.4	1
104	Analysis of the Content of Carboxyl Groups on the Surface of Chemically Modified Copper Phthalocyanine. Macroheterocycles, 2017, 10, 340-344.	0.9	0