Sergey Ilyin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6198848/publications.pdf

Version: 2024-02-01

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	Deasphalting of heavy crude oil by hexamethyldisiloxane: The effect of a solvent/oil ratio on the structure, composition, and properties of precipitated asphaltenes. Journal of Petroleum Science and Engineering, 2022, 208, 109329.	2.1	15
2	Compatibility and rheology of bio-oil blends with light and heavy crude oils. Fuel, 2022, 314, 122761.	3.4	22
3	The Use of Branching Agents in the Synthesis of PBAT. Polymers, 2022, 14, 1720.	2.0	8
4	Two-functional phase-change pressure-sensitive adhesives based on polyisobutylene matrix filled with paraffin wax. Journal of Energy Storage, 2022, 52, 104797.	3.9	11
5	Rheological and adhesive properties of nanocomposite bitumen binders based on hydrophilic or hydrophobic silica and modified with bio-oil. Construction and Building Materials, 2022, 342, 127946.	3.2	38
6	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
7	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. European Polymer Journal, 2022, 176, 111397.	2.6	7
8	Rheological, thermophysical, and morphological features of original and hydrogenated bio-oils. Sustainable Energy and Fuels, 2021, 5, 4425-4433.	2.5	7
9	Morphology and Rheology of Heavy Crude Oil/Water Emulsions Stabilized by Microfibrillated Cellulose. Energy & Fuels, 2021, 35, 6527-6540.	2.5	27
10	Hydrophobic nanosilica-stabilized graphite particles for improving thermal conductivity of paraffin wax-based phase-change materials. Journal of Energy Storage, 2021, 36, 102417.	3.9	47
11	A Recursive Model of the Spread of COVID-19: Modelling Study. JMIR Public Health and Surveillance, 2021, 7, e21468.	1.2	6
12	Rheological and Adhesion Properties of Hot-Melt Adhesives Based on Hydrocarbon Resins and Poly(ethylene-vinyl acetate). Polymer Science - Series A, 2021, 63, 283-295.	0.4	6
13	Structure, rheology and possible application of water-in-oil emulsions stabilized by asphaltenes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 618, 126442.	2.3	45
14	Effect of enhanced oil recovery on the composition and rheological properties of heavy crude oil. Journal of Petroleum Science and Engineering, 2021, 203, 108641.	2.1	44
15	A novel method for producing cellulose nanoparticles and their possible application as thickeners for biodegradable low-temperature greases. Cellulose, 2021, 28, 10203-10219.	2.4	14
16	Rheological and tribological properties of low-temperature greases based on cellulose acetate butyrate gel. Carbohydrate Polymers, 2021, 272, 118509.	5.1	38
17	Cyclic ethylene phosphates with (CH₂)_nCOOR and CH₂CONMe₂ substituents: synthesis and mechanistic insights of diverse reactivity in aryloxy-Mg complex-catalyzed (co)polymerization. Polymer Chemistry, 2021, 12, 6937-6951.	1.9	2
18	Acceleration of epoxy resin curing by using a combination of aliphatic and aromatic amines. Polymer Bulletin, 2020, 77, 1519-1540.	1.7	20

#	Article	IF	Citations
19	Fabrication of microfiltration membranes from polyisobutylene/polymethylpentene blends. Polymer International, 2020, 69, 165-172.	1.6	15
20	Phase behavior and rheology of miscible and immiscible blends of linear and hyperbranched siloxane macromolecules. Materials Today Communications, 2020, 22, 100833.	0.9	27
21	Polyethylene wax as an alternative to mineral fillers for preparation of reinforced pressure-sensitive adhesives. International Journal of Adhesion and Adhesives, 2020, 102, 102689.	1.4	13
22	Phase state and rheology of polyisobutylene blends with silicone resin. Rheologica Acta, 2020, 59, 375-386.	1.1	29
23	Methylenealkane-Based Low-Viscosity Ester Oils: Synthesis and Outlook. Lubricants, 2020, 8, 50.	1.2	11
24	Sulfonated polyoxadiazole synthesis and processing into ionâ€conducting films. Polymer International, 2020, 69, 1243-1255.	1.6	15
25	Effect of Thickener Nature on Properties of Polyurealubricant Compositions Based on Esters. Chemistry and Technology of Fuels and Oils, 2020, 55, 689-696.	0.2	6
26	Phase Separation of Polymethylpentene Solutions for Producing Microfiltration Membranes. Polymer Science - Series A, 2020, 62, 292-299.	0.4	3
27	The Effect of the Nature of a Coagulant on the Nanofiltration Properties of Cellulose Membranes Formed from Solutions in Ionic Media. Membranes and Membrane Technologies, 2020, 2, 149-158.	0.6	7
28	Asphaltenes as a tackifier for hotâ€melt adhesives based on the styreneâ€isopreneâ€styrene block copolymer. Polymer Engineering and Science, 2020, 60, 2224-2234.	1.5	12
29	Formation of Microfiltration Membranes from PMP/PIB Blends: Effect of PIB Molecular Weight on Membrane Properties. Membranes, 2020, 10, 9.	1.4	5
30	Synthesis and Properties of Sulfonated Copolymers of Oxadiazole, Dioxophenoxathiine, and Diphenyl Oxide. Polymer Science - Series B, 2020, 62, 47-60.	0.3	3
31	Heavy crude oil asphaltenes as a nanofiller for epoxy resin. Polymer Engineering and Science, 2020, 60, 1530-1545.	1.5	22
32	Rheology and tribology of ester-based greases with microcrystalline cellulose and organomodified montmorillonite. Tribology International, 2020, 148, 106318.	3.0	38
33	Effect of Synthesis Medium on the Structure and Physicochemical Properties of Biomineral Composites Based on Hydroxyapatite and Hyaluronic Acid. Polymer Science - Series B, 2020, 62, 61-71.	0.3	5
34	On the Possibility of a Radical Increase in Thermal Conductivity by Dispersed Particles. Russian Journal of Applied Chemistry, 2020, 93, 1796-1814.	0.1	10
35	Hydrogenation of Indeneâ€“Coumarone Resin on Palladium Catalysts for Use in Polymer Adhesives. Russian Journal of Applied Chemistry, 2019, 92, 1143-1152.	0.1	9
36	Effect of surface contamination on the durability and strength of stainless steel â€“ polyisobutylene pressure-sensitive adhesive bonds. International Journal of Adhesion and Adhesives, 2019, 95, 102434.	1.4	7

#	Article	IF	Citations
37	Formation of Porous Films with Hydrophobic Surface from a Blend of Polymers. Polymer Science - Series A, 2019, 61, 619-626.	0.4	8
38	Mechanistic study of transesterification in TBD-catalyzed ring-opening polymerization of methyl ethylene phosphate. European Polymer Journal, 2019, 118, 393-403.	2.6	16
39	Composites Based on Polystyrene and Asphaltenes. Russian Journal of Applied Chemistry, 2019, 92, 1712-1717.	0.1	13
40	Basic Fundamentals of Petroleum Rheology and Their Application for the Investigation of Crude Oils of Different Natures. Energy & Fuels, 2018, 32, 268-278.	2.5	68
41	Diffusion and phase separation at the morphology formation of cellulose membranes by regeneration from N-methylmorpholine N-oxide solutions. Cellulose, 2018, 25, 2515-2530.	2.4	36
42	From Polyacrylonitrile, Its Solutions, and Filaments to Carbon Fibers: I. Phase State and Rheology of Basic Polymers and Their Solutions. Advances in Polymer Technology, 2018, 37, 1076-1084.	0.8	19
43	Epoxy nanocomposites as matrices for aramid fiberâ€reinforced plastics. Polymer Composites, 2018, 39, E2167.	2.3	17
44	Oxidative Functionalization of Asphaltenes from Heavy Crude Oil. Russian Journal of Applied Chemistry, 2018, 91, 1835-1840.	0.1	19
45	Specific Features of Greases Based on Poly-Î±-olefin Oils with Ureate Thickeners of Various Structures. Russian Journal of Applied Chemistry, 2018, 91, 1735-1741.	0.1	14
46	The Effect of Tackifier on the Properties of Pressure-Sensitive Adhesives Based on Styreneâ€“Butadieneâ€“Styrene Rubber. Russian Journal of Applied Chemistry, 2018, 91, 1945-1956.	0.1	13
47	Rheological and Tribological Properties of Lubricating Greases Based on Esters and Polyurea Thickeners. Petroleum Chemistry, 2018, 58, 1064-1069.	0.4	20
48	Fabrication of cellulose-based composite membranes for organic solvent nanofiltration. Journal of Physics: Conference Series, 2018, 1099, 012039.	0.3	3
49	Kinetics of Curing of Epoxy Oligomer by Diaminodiphenyl Sulfone: Rheology and Calorimetry. Polymer Science - Series A, 2018, 60, 683-690.	0.4	15
50	Effect of silica and clay minerals on rheology of heavy crude oil emulsions. Fuel, 2018, 232, 290-298.	3.4	39
51	The rheological state of suspensions in varying the surface area of nano-silica particles and molecular weight of the poly(ethylene oxide) matrix. Colloid and Polymer Science, 2017, 295, 555-563.	1.0	40
52	Phase equilibrium and rheology of poly(1-trimethylsilyl-1-propyne) solutions. Polymer Science - Series A, 2017, 59, 1-11.	0.4	3
53	Solutions of acrylonitrile copolymers in N -methylmorpholine- N -oxide: Structure, properties, fiber spinning. European Polymer Journal, 2017, 92, 326-337.	2.6	12
54	Effect of coagulating agent viscosity on the kinetics of formation, morphology, and transport properties of cellulose nanofiltration membranes. Polymer Science - Series A, 2017, 59, 676-684.	0.4	10

#	Article	IF	Citations
55	Structure and rheology of aqueous poly(vinyl acetate) dispersions modified with montmorillonite. Colloid Journal, 2017, 79, 588-595.	0.5	6
56	Rheological properties of acrylonitrileâ€"acrylamideâ€"styrene copolymer solutions synthesized by classical and controlled radical polymerizations. Russian Chemical Bulletin, 2017, 66, 711-716.	0.4	2
57	Flow of heavy crude oil-in-water emulsions in long capillaries simulating pipelines. Journal of Petroleum Science and Engineering, 2017, 157, 117-123.	2.1	14
58	A modern look on yield stress fluids. Rheologica Acta, 2017, 56, 177-188.	1.1	84
59	Effect of the Asphaltene, Resin, and Wax Contents on the Physicochemical Properties and Quality Parameters of Crude Oils. Petroleum Chemistry, 2017, 57, 1141-1143.	0.4	20
60	Formation and Catalytic Behavior Of Fine Iron-Containing Composite Fischerâ€"Tropsch Catalysts in a Slurry Reactor. Petroleum Chemistry, 2017, 57, 1318-1325.	0.4	4
61	Analysis of the Content of Carboxyl Groups on the Surface of Chemically Modified Copper Phthalocyanine. Macroheterocycles, 2017, 10, 340-344.	0.9	0
62	Rheological properties of associates of ionic monomers with micelles of oppositely charged surfactants. Russian Chemical Bulletin, 2016, 65, 1161-1166.	0.4	2
63	The rheological characterisation of typical injection implants based on hyaluronic acid for contour correction. Rheologica Acta, 2016, 55, 223-233.	1.1	26
64	Solâ€"gel transition and rheological properties of silica nanoparticle dispersions. Colloid Journal, 2016, 78, 608-615.	0.5	38
65	Celluloseâ€"co-polyacrylonitrile blends: Properties of combined solutions in N-metylmorpholine-N-oxide and the formation and thermolysis of composite fibers. Polymer Science - Series C, 2016, 58, 74-84.	0.8	12
66	Rheological comparison of light and heavy crude oils. Fuel, 2016, 186, 157-167.	3.4	82
67	Some Compositional Viscosity Correlations for Crude Oils from Russia and Norway. Energy & Fuels, 2016, 30, 9322-9328.	2.5	42
68	Phase state and rheology of organosilicon nanocomposites with functionalized hyperbranched nanoparticles. Polymer Science - Series A, 2016, 58, 987-995.	0.4	7
69	Epoxy reinforcement with silicate particles: Rheological and adhesive properties - Part II: Characterization of composites with halloysite. International Journal of Adhesion and Adhesives, 2016, 68, 248-255.	1.4	26
70	Asphaltenes in heavy crude oil: Designation, precipitation, solutions, and effects on viscosity. Journal of Petroleum Science and Engineering, 2016, 147, 211-217.	2.1	113
71	Rheological and adhesive properties of PIB-based pressure-sensitive adhesives with montmorillonite-type nanofillers. European Polymer Journal, 2016, 76, 228-244.	2.6	35
72	Rheological characteristics of different carbon nanoparticles in cholesteric mesogen dispersions as lubricant coolant additives. Journal of Friction and Wear, 2015, 36, 380-385.	0.1	21

#	Article	IF	Citations
73	Epoxy reinforcement with silicate particles: Rheological and adhesive propertiesÂâ€“ Part I: Characterization of composites with natural and organically modified montmorillonites. International Journal of Adhesion and Adhesives, 2015, 61, 127-136.	1.4	38
74	Rheological evidence for the existence of subphases in the liquid crystalline 4-n-alkoxybenzoic acids. Liquid Crystals, 2015, , 1-12.	0.9	2
75	Viscosity of polyacrylonitrile solutions: The effect of the molecular weight. Polymer Science - Series A, 2015, 57, 494-500.	0.4	12
76	The rheology of gelatin hydrogels modified by Î¹-carrageenan. LWT - Food Science and Technology, 2015, 63, 612-619.	2.5	122
77	Rheological properties of emulsions formed by polymer solutions and modified by nanoparticles. Colloid and Polymer Science, 2015, 293, 1647-1654.	1.0	15
78	Miscibility and rheological properties of epoxy resin blends with aromatic polyethers. Polymer Science - Series A, 2015, 57, 177-185.	0.4	14
79	Phase structure and properties of blends based on polystyrene and carbosilane dendrimers. Polymer Science - Series A, 2015, 57, 586-595.	0.4	4
80	Rheology and adhesive properties of filled PIB-based pressure-sensitive adhesives. II. ProbeÂtack and 90Â° peel testing. Journal of Adhesion Science and Technology, 2015, 29, 2635-2647.	1.4	4
81	Non-linearity in rheological properties of polymers and composites under large amplitude oscillatory shear. Polymer Science - Series A, 2015, 57, 910-923.	0.4	6
82	Rheology and adhesive properties of filled PIB-based pressure-sensitive adhesives. I. Rheology and shear resistance. Journal of Adhesion Science and Technology, 2015, 29, 1831-1848.	1.4	35
83	Phase state and rheology of polyisobutylene mixtures with decyl surface modified silica nanoparticles. Polymer Science - Series A, 2014, 56, 798-811.	0.4	17
84	A Study on the Structure and Adhesive Properties of Epoxy-Silicate Composites. Mechanics of Composite Materials, 2014, 50, 661-668.	0.9	8
85	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. Polymer Science - Series B, 2014, 56, 553-565.	0.3	17
86	Pressure losses in flow of viscoelastic polymeric fluids through short channels. Journal of Rheology, 2014, 58, 433-448.	1.3	10
87	Application of large amplitude oscillatory shear for the analysis of polymer material properties in the nonlinear mechanical behavior. Polymer Science - Series A, 2014, 56, 98-110.	0.4	21
88	Adhesive properties of liquid crystalline hydroxypropyl celluloseâ€“propylene glycol blends. Journal of Adhesion Science and Technology, 2014, 28, 1629-1643.	1.4	12
89	Rheological properties of road bitumens modified with polymer and solid nanosized additives. Colloid Journal, 2014, 76, 425-434.	0.5	23
90	Effect of Chain Structure on the Rheological Properties of Vinyl Acetateâ€“Vinyl Alcohol Copolymers in Solution and Bulk. Macromolecules, 2014, 47, 4790-4804.	2.2	35

#	Article	IF	Citations
91	Rheological properties of polyethylene/metaboric acid thermoplastic blends. Rheologica Acta, 2014, 53, 467-475.	1.1	34
92	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
93	Rheology of aqueous poly(ethylene oxide) solutions reinforced with bentonite clay. Colloid Journal, 2013, 75, 267-273.	0.5	16
94	Rheological and phase behavior of polyamidobenzimidazole solutions under the effect of temperature and deformation. Polymer Science - Series A, 2013, 55, 186-191.	0.4	4
95	Unusual rheological effects observed in polyacrylonitrile solutions. Polymer Science - Series A, 2013, 55, 503-509.	0.4	31
96	Rheological Evidence of Gel Formation in Dilute Poly(acrylonitrile) Solutions. Macromolecules, 2013, 46, 257-266.	2.2	78
97	Viscoplasticity and stratified flow of colloid suspensions. Soft Matter, 2012, 8, 2607.	1.2	47
98	Rheological peculiarities of concentrated suspensions. Colloid Journal, 2012, 74, 472-482.	0.5	20
99	Rheological and Mechanical Properties of Epoxy Composites Modified with Montmorillonite Nanoparticles. International Polymer Science and Technology, 2012, 39, 57-61.	0.1	6
100	Gels of cysteine/Ag-based dilute colloid systems and their rheological properties. Soft Matter, 2011, 7, 9090.	1.2	36
101	Gelation in dilute aqueous L-cysteine-AgNO3 solutions. Colloid Journal, 2011, 73, 646-650.	0.5	5
102	Rheological properties of high-concentration suspensions used for obtaining electrorheological media. Journal of Engineering Physics and Thermophysics, 2011, 84, 1016-1025.	0.2	4
103	Epoxy Nanocompositesâ€"Curing Rheokinetics, Wetting and Adhesion to Fibers. AIP Conference Proceedings, 2010, , .	0.3	1
104	Bio-Oil: Production, Modification, and Application. Chemistry and Technology of Fuels and Oils, 0, , 1.	0.2	6