

# Petr Filip

## List of Publications by Year in descending order

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81  
papers

1,182  
citations

393982

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414034

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84  
all docs

84  
docs citations

84  
times ranked

956  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dependence of poly(vinyl butyral) electrospun fibres diameter on molecular weight and concentration. Journal of Industrial Textiles, 2022, 51, 1612S-1626S.	1.1	3
2	Evaluation of an onset of electrospun beadless poly(ethylene oxide) nanofibres. Journal of Applied Polymer Science, 2021, 138, 50001.	1.3	3
3	Processability of High Metal and Ceramic Concentration Compounds. , 2021, , 855-872.		0
4	Antibacterial Filtration Membranes Based on PVDF-co-HFP Nanofibers with the Addition of Medium-Chain 1-Monoacylglycerols. ACS Applied Materials & Interfaces, 2021, 13, 41021-41033.	4.0	9
5	An Estimate of the Onset of Beadless Character of Electrospun Nanofibers Using Rheological Characterization. Polymers, 2021, 13, 265.	2.0	5
6	Electrospinning of a Copolymer PVDF-co-HFP Solved in DMF/Acetone: Explicit Relations among Viscosity, Polymer Concentration, DMF/Acetone Ratio and Mean Nanofiber Diameter. Polymers, 2021, 13, 3418.	2.0	12
7	Continuous rheological description of highly filled polymer melts for material extrusion. Applied Materials Today, 2020, 20, 100754.	2.3	5
8	Electrospinning of poly(ethylene oxide) solutions - Quantitative relations between mean nanofibre diameter, concentration, molecular weight, and viscosity. AIP Conference Proceedings, 2019, , .	0.3	1
9	Wall slip of highly filled powder injection moulding compounds in dependence on capillary die geometry. AIP Conference Proceedings, 2019, , .	0.3	0
10	Approximate functions relating specific viscosity of PEO in DMSO vs. concentration respecting intrinsic viscosity for low concentrations. AIP Conference Proceedings, 2019, , .	0.3	0
11	Evaluation of powder loading and flow properties of Al <sub>2</sub> O <sub>3</sub> ceramic injection molding feedstocks treated with stearic acid. Ceramics International, 2019, 45, 20084-20090.	2.3	24
12	Characterization of Poly(Ethylene Oxide) Nanofibers – Mutual Relations between Mean Diameter of Electrospun Nanofibers and Solution Characteristics. Processes, 2019, 7, 948.	1.3	28
13	Master flow curves as a tool to modelling ceramic injection molding. Ceramics International, 2019, 45, 7468-7471.	2.3	4
14	Modeling of nonlinear viscoelastic polymeric materials at their large periodic deformation. Anyag: Journal of Silicate Based and Composite Materials, 2019, 71, 2-4.	0.0	1
15	Influence of capillary die geometry on wall slip of highly filled powder injection molding compounds. Powder Technology, 2018, 325, 615-619.	2.1	4
16	Magnetorheological characterization and electrospinnability of ultrasound-treated polymer solutions containing magnetic nanoparticles. Colloid and Polymer Science, 2018, 296, 1849-1855.	1.0	4
17	Nanofibrous web quality in dependence on the preparation of poly(ethylene oxide) aqueous solutions. Journal of the Textile Institute, 2017, 108, 2021-2026.	1.0	1
18	On the relation between sensory attributes and rheological characterization of cosmetic products. AIP Conference Proceedings, 2017, , .	0.3	2

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19	Quality of nanofibrous mats in relation to rheological characterization of PVB and PVB/silica solutions. AIP Conference Proceedings, 2017, , .	0.3	0
20	Two Ways to Examine Differential Constitutive Equations: Initiated on Steady or Initiated on Unsteady (LAOS) Shear Characteristics. Polymers, 2017, 9, 205.	2.0	9
21	An examination of the differential constitutive models under large amplitude oscillatory shear flow. AIP Conference Proceedings, 2017, , .	0.3	0
22	Flexibility of three differential constitutive models evaluated by large amplitude oscillatory shear and Fourier transform rheology. Polymer, 2016, 104, 171-178.	1.8	3
23	Relation between sensory analysis and rheology of body lotions. International Journal of Cosmetic Science, 2016, 38, 558-566.	1.2	22
24	Rheological Model for Describing Viscometric Flows of Melts of Branched Polymers. Journal of Engineering Physics and Thermophysics, 2016, 89, 652-659.	0.2	8
25	The influence of sonication of poly(ethylene oxide) solutions to the quality of resulting electrospun nanofibrous mats. Polymer Degradation and Stability, 2016, 126, 101-106.	2.7	10
26	Magnetorheological behaviour and electrospinning of poly(ethylene oxide) suspensions with magnetic nanoparticles. Journal of Intelligent Material Systems and Structures, 2016, 27, 898-903.	1.4	5
27	Applicability of the modified XPP model to a description of flow behaviour of polymeric materials. AIP Conference Proceedings, 2015, , .	0.3	0
28	Comparison of electrorheological characteristics obtained in two geometrical arrangements: Parallel plates and concentric cylinders. AIP Conference Proceedings, 2015, , .	0.3	0
29	The role of the Gordonâ€“Schowalter derivative term in the constitutive modelsâ€“improved flexibility of the modified XPP model. Colloid and Polymer Science, 2015, 293, 1227-1236.	1.0	3
30	Predictive/fitting capabilities of differential constitutive models for polymer meltsâ€“reduction of nonlinear parameters in the eXtended Pom-Pom model. Colloid and Polymer Science, 2014, 292, 2753-2763.	1.0	12
31	An evaluation of the pressure-dependent melt viscosity of polyphenylsulfone. Polymer Engineering and Science, 2014, 54, 711-715.	1.5	5
32	The storage stability of polyvinylbutyral solutions from an electrospinnability standpoint. Polymer Degradation and Stability, 2014, 105, 134-139.	2.7	22
33	Tailoring the magnetic properties and magnetorheological behavior of spinel nanocrystalline cobalt ferrite by varying annealing temperature. Dalton Transactions, 2014, 43, 6919.	1.6	43
34	An electrorheological investigation of PVB solutions in connection with their electrospinning qualities. Polymer Testing, 2014, 39, 115-121.	2.3	17
35	Cholesteryl-coated carbonyl iron particles with improved anti-corrosion stability and their viscoelastic behaviour under magnetic field. Colloid and Polymer Science, 2014, 292, 2137-2143.	1.0	42
36	Quality of nanofibrous web in dependence on the preparation of polymer solutions. , 2013, , .		0

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37	Improved thermooxidation and sedimentation stability of covalently-coated carbonyl iron particles with cholesteryl groups and their influence on magnetorheology. <i>Journal of Colloid and Interface Science</i> , 2013, 396, 146-151.	5.0	100
38	Effect of shear rate on aggregate size and structure in the process of aggregation and at steady state. <i>Powder Technology</i> , 2013, 235, 540-549.	2.1	78
39	On the (ir)reproducibility of measurements of elongational viscosity using an SER universal testing platform. , 2013, , .		0
40	Synthesis and magnetorheological characteristics of ribbon-like, polypyrrole-coated carbonyl iron suspensions under oscillatory shear. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2977-2982.	1.3	37
41	The Influence of Emulsifier on Rheological and Sensory Properties of Cosmetic Lotions. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-7.	1.0	20
42	The effect of shear rate on aggregate size distribution and structure at steady state: a comparison between a Taylor-Couette reactor and a mixing tank. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2013, 62, 288-295.	0.6	2
43	On the comparison of electrorheological measurements with different generation of an electric field. <i>Journal of Physics: Conference Series</i> , 2013, 412, 012010.	0.3	0
44	A dimorphic magnetorheological fluid with improved oxidation and chemical stability under oscillatory shear. <i>Smart Materials and Structures</i> , 2013, 22, 035011.	1.8	54
45	Empirical Modelling of Nonmonotonous Behaviour of Shear Viscosity. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-4.	1.0	11
46	Magnetorheology of carbonyl iron particles coated with polypyrrole ribbons: The steady shear study. <i>Journal of Physics: Conference Series</i> , 2013, 412, 012016.	0.3	11
47	Generalisation of the method of images for the calculation of inviscid potential flow past several arbitrarily moving parallel circular cylinders. <i>Journal of Engineering Mathematics</i> , 2012, 77, 77-85.	0.6	5
48	THE ROLE OF PARTICLES ANNEALING TEMPERATURE ON MAGNETORHEOLOGICAL EFFECT. <i>Modern Physics Letters B</i> , 2012, 26, 1150013.	1.0	29
49	On the Generalised Stretch Function. <i>Macromolecular Theory and Simulations</i> , 2012, 21, 272-278.	0.6	1
50	Plasma-treated carbonyl iron particles as a dispersed phase in magnetorheological fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 387, 99-103.	2.3	53
51	The effect of powder characteristics on pressure sensitivity of powder injection moulding compounds. <i>Powder Technology</i> , 2011, 206, 209-213.	2.1	8
52	Optimization of powder injection molding of feedstock based on aluminum oxide and multicomponent water-soluble polymer binder. <i>Polymer Engineering and Science</i> , 2011, 51, 1376-1382.	1.5	21
53	On the Approximation of the Generalised Stretch Function. , 2011, , .		0
54	Invariance of Elongational Viscosity Measurements Using SER Universal Testing Platform with Respect to Rectangular Shapes of Polymer Samples. , 2011, , .		0

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55	Core-shell Structured Polypyrrole-coated Magnetic Carbonyl Iron Microparticles and their Magnetorheology. , 2011, , .		3
56	Probability Distribution Function of the Polymer End-to-End Molecule Vector after Retraction and its Application to Step Deformation. Macromolecular Theory and Simulations, 2010, 19, 190-194.	0.6	1
57	Rheological properties of magnetorheological suspensions based on core-shell structured polyaniline-coated carbonyl iron particles. Smart Materials and Structures, 2010, 19, 115008.	1.8	93
58	Quasisimilarity of Helical Power-Law Fluid Flow in Concentric Annuli. , 2009, , .		0
59	Modelling elongational and shear rheology of two LDPE melts. Rheologica Acta, 2009, 48, 691-697.	1.1	37
60	Rheological characterization and modeling of linear and branched metallocene polypropylenes prepared by reactive processing. Journal of Non-Newtonian Fluid Mechanics, 2009, 156, 1-6.	1.0	22
61	Rheological Characterization and Constitutive Modeling of Two LDPE Melts. , 2009, , .		1
62	A Remark to the Tube Theory. , 2009, , .		0
63	On the predictive/fitting capabilities of the advanced differential constitutive equations for linear polyethylene melts. Journal of Non-Newtonian Fluid Mechanics, 2008, 150, 56-64.	1.0	20
64	On the predictive/fitting capabilities of the advanced differential constitutive equations for branched LDPE melts. Journal of Non-Newtonian Fluid Mechanics, 2006, 135, 58-67.	1.0	34
65	Phenomenological Modelling of Non-Monotonous Shear Viscosity Functions. Applied Rheology, 2004, 14, 82-88.	3.5	11
66	Pressure dependent viscosity of Surlyn/montmorillonite nanocomposite. Plastics, Rubber and Composites, 2004, 33, 299-304.	0.9	4
67	On the effect of pressure on the shear and elongational viscosities of polymer melts. Polymer Engineering and Science, 2004, 44, 1328-1337.	1.5	93
68	Quasisimilarity of helical flow of power-law fluids in concentric annuli. Journal of Petroleum Science and Engineering, 2004, 45, 97-107.	2.1	3
69	Axial Couette-Poiseuille flow of power-law viscoplastic fluids in concentric annuli. Journal of Petroleum Science and Engineering, 2003, 40, 111-119.	2.1	37
70	Mixture Rules for Critical Shear Values of Extruded Linear PE/Branched PE Blends. Polymer-Plastics Technology and Engineering, 1997, 36, 557-568.	1.9	1
71	Explicit pressure drop-flow rate relation for laminar axial flow of power-law fluids in concentric annuli. Journal of Petroleum Science and Engineering, 1996, 16, 203-208.	2.1	17
72	Relationship of Annular and Parallel-Plate Poiseuille Flows for Power-Law Fluids. Polymer-Plastics Technology and Engineering, 1995, 34, 947-960.	1.9	9

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73	Quasisimilarity of flow behavior of power-law fluids in concentric annuli. Fluid Dynamics Research, 1994, 14, 63-70.	0.6	10
74	Similarity prediction of wall jets past axisymmetric bodies for power-law fluids. Acta Mechanica, 1991, 88, 167-173.	1.1	4
75	On the swirling wall jets on bodies of revolution. International Journal of Engineering Science, 1990, 28, 115-121.	2.7	1
76	Similarity prediction of wall jets on bodies of revolution. Acta Mechanica, 1989, 76, 253-263.	1.1	4
77	A note on the radial wall jet with swirl. Acta Mechanica, 1986, 60, 41-47.	1.1	3
78	Complex Swirling Radial Jets. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1985, 65, 441-446.	0.9	1
79	Space flow geometry of the radial free, wall and liquid jets with swirl. Flow, Turbulence and Combustion, 1985, 42, 185-196.	0.2	5
80	HYDRODYNAMICS OF A RADIALLY DISCHARGING IMPELLER STREAM IN AGITATED VESSELS. Chemical Engineering Communications, 1984, 27, 313-326.	1.5	13
81	The swirling radial jet. Flow, Turbulence and Combustion, 1982, 39, 329-335.	0.2	13