

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling fiber interactions in semiconcentrated fiber suspensions. <i>Journal of Rheology</i> , 2009, 53, 49-72.	1.3	84
2	Smoothed particle hydrodynamics (SPH) modeling of fiber orientation in a 3D printing process. <i>Physics of Fluids</i> , 2018, 30, .	1.6	54
3	Investigation of the rheological properties of short glass fiber-filled polypropylene in extensional flow. <i>Rheologica Acta</i> , 2009, 48, 59-72.	1.1	35
4	Numerical solution of the Fokker-Planck equation for fiber suspensions: Application to the Folgar-Tucker-Lipscomb model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 155, 20-29.	1.0	34
5	Rheological behavior of fiber-filled polymers under large amplitude oscillatory shear flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 151, 89-100.	1.0	30
6	Shear-thinning in concentrated rigid fiber suspensions: Aggregation induced by adhesive interactions. <i>Journal of Rheology</i> , 2016, 60, 1279-1300.	1.3	30
7	Solubility and interfacial tension of thermoplastic polyurethane melt in supercritical carbon dioxide and nitrogen. <i>Journal of Supercritical Fluids</i> , 2017, 122, 52-57.	1.6	30
8	On the use of interaction tensors to describe and predict rod interactions in rod suspensions. <i>Rheologica Acta</i> , 2014, 53, 445-456.	1.1	26
9	Numerical simulation and modeling of the die swell for fiber suspension flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 274, 104205.	1.0	26
10	On the multiscale description of dilute suspensions of non-Brownian rigid clusters composed of rods. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 222, 34-44.	1.0	25
11	An efficient reduced simulation of residual stresses in composite forming processes. <i>International Journal of Material Forming</i> , 2010, 3, 1339-1350.	0.9	24
12	Rheological modeling of carbon nanotube suspensions with rod-rod interactions. <i>AIChE Journal</i> , 2014, 60, 1476-1487.	1.8	24
13	The effect of shear-thinning behaviour on rod orientation in filled fluids. <i>Journal of Fluid Mechanics</i> , 2016, 798, 350-370.	1.4	24
14	A rheological constitutive model for semiconcentrated rod suspensions in Bingham fluids. <i>Physics of Fluids</i> , 2017, 29, .	1.6	24
15	Stress and strain amplification in a dilute suspension of spherical particles based on a Bird-Carreau model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 221, 95-102.	1.0	23
16	Fiber suspension in 2D nonhomogeneous flow: The effects of flow/fiber coupling for Newtonian and power-law suspending fluids. <i>Journal of Rheology</i> , 2019, 63, 405-418.	1.3	23
17	A smoothed particle hydrodynamics simulation of fiber-filled composites in a non-isothermal three-dimensional printing process. <i>Physics of Fluids</i> , 2019, 31, .	1.6	22
18	Toward modeling anisotropic yield stress and consistency induced by fiber in fiber-reinforced viscoplastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 220, 69-76.	1.0	19

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19	A Second-Gradient Theory of Dilute Suspensions of Flexible Rods in a Newtonian Fluid. Archives of Computational Methods in Engineering, 2015, 22, 511-527.	6.0	18
20	Direct simulation of concentrated fiber suspensions subjected to bending effects. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 055007.	0.8	17
21	Model for thermal degradation of carbon fiber filled poly(ether ether ketone). Polymer Degradation and Stability, 2017, 143, 20-25.	2.7	17
22	Simulation of laser heating distribution for a thermoplastic composite: effects of AFP head parameters. International Journal of Advanced Manufacturing Technology, 2020, 110, 2105-2117.	1.5	16
23	A smoothed particle hydrodynamics study of a non-isothermal and thermally anisotropic fused deposition modeling process for a fiber-filled composite. Physics of Fluids, 2020, 32, .	1.6	16
24	Steady-shear rheological properties for suspensions of axisymmetric particles in second-order fluids. Journal of Non-Newtonian Fluid Mechanics, 2017, 239, 62-72.	1.0	14
25	Apparent yield stress in rigid fibre suspensions: the role of attractive colloidal interactions. Journal of Fluid Mechanics, 2016, 802, 611-633.	1.4	13
26	Coupling finite elements and reduced approximation bases. European Journal of Computational Mechanics, 2009, 18, 445-463.	0.6	12
27	Rheo-optical response of carbon nanotube suspensions. Journal of Rheology, 2015, 59, 499-524.	1.3	12
28	Thermoplastic foaming with thermo-expandable microcapsules: Mathematical modeling and numerical simulation for extrusion process. Chemical Engineering Science, 2020, 227, 115852.	1.9	10
29	Automated fibre placement process for a new hybrid material: A numerical tool for predicting an efficient heating law. Composites Part A: Applied Science and Manufacturing, 2021, 144, 106360.	3.8	10
30	Thermal or electrical bulk properties of rod-filled composites. International Journal of Engineering Science, 2018, 133, 219-230.	2.7	9
31	Modeling interactions in carbon nanotube suspensions: Transient shear flow. Journal of Rheology, 2016, 60, 1069-1083.	1.3	8
32	A model for the stress tensor in dilute suspensions of rigid spheroids in a generalized Newtonian fluid. Journal of Non-Newtonian Fluid Mechanics, 2019, 264, 73-84.	1.0	8
33	Axisymmetric flow simulations of fiber suspensions as described by 3D probability distribution function. Journal of Non-Newtonian Fluid Mechanics, 2020, 284, 104367.	1.0	8
34	Rigid fiber motion in slightly non-Newtonian viscoelastic fluids. Physics of Fluids, 2021, 33, .	1.6	7
35	Rheological Modeling of Non-dilute Rod Suspensions. , 2015, , 77-117.		6
36	Numerical investigation of dilute suspensions of rigid rods in power-law fluids. Journal of Non-Newtonian Fluid Mechanics, 2020, 280, 104280.	1.0	5

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37	Numerical evaluation of a single ellipsoid motion in Newtonian and power-law fluids. AIP Conference Proceedings, 2018, , .	0.3	4
38	Macroscopic modeling of the evolution of fiber orientation during flow. , 2022, , 77-121.		4
39	Short fiber composite reinforcements. , 2021, , 627-669.		2
40	Thermo-expandable microcapsule as a blowing agent for producing thermoplastic elastomer vulcanized syntactic foam. AIP Conference Proceedings, 2020, , .	0.3	0
41	Dynamics of gas bubbles in fiber suspensions. International Journal of Multiphase Flow, 2021, 145, 103823.	1.6	0
42	Modeling and Numerical Simulation of Laminated Thermoplastic Composites Manufactured by Laser-Assisted Automatic Tape Placement. International Polymer Processing, 2020, 35, 471-480.	0.3	0
43	A multi-scale statistical description of stacks of non-cohesive thin particles. Powder Technology, 2021, , .	2.1	0
44	Modeling and Numerical Simulation of Laminated Thermoplastic Composites Manufactured by Laser-Assisted Automatic Tape Placement. International Polymer Processing, 2020, 35, 471-480.	0.3	0