

Huan-Chang Tseng

List of Publications by Year in descending order

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papers

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30
times ranked

370
citing authors

#	ARTICLE	IF	CITATIONS
1	Powder Injection Molding. , 2022, , 495-509.		0
2	Fiber Orientation Control. , 2022, , 347-377.		0
3	A constitutive analysis of stress overshoot for polymer melts under startup shear flow. Physics of Fluids, 2021, 33, .	1.6	8
4	A revisitatio n of WhiteâMetzner viscoelastic fluids. Physics of Fluids, 2021, 33, .	1.6	15
5	A constitutive equation for fiber suspensions in viscoelastic media. Physics of Fluids, 2021, 33, .	1.6	8
6	Comparison of recent fiber orientation models in injection molding simulation of fiber-reinforced composites. Journal of Thermoplastic Composite Materials, 2020, 33, 35-52.	2.6	21
7	A revisitatio n of generalized Newtonian fluids. Journal of Rheology, 2020, 64, 493-504.	1.3	27
8	The use of informed isotropic constitutive equation to simulate anisotropic rheological behaviors in fiber suspensions. Journal of Rheology, 2019, 63, 263-274.	1.3	50
9	Coupled flow and fiber orientation analysis for 3D injection molding simulations of fiber composites. AIP Conference Proceedings, 2019, , .	0.3	4
10	A new anisotropic flow simulation for compression molding of glass-mat thermoplastics. AIP Conference Proceedings, 2019, , .	0.3	2
11	The use of principal spatial tensor to predict anisotropic fiber orientation in concentrated fiber suspensions. Journal of Rheology, 2018, 62, 313-320.	1.3	24
12	Numerical predictions of fiber orientation and mechanical properties for injectionâmolded longâcarbonâfiber thermoplastic composites. Polymer Composites, 2018, 39, 3726-3739.	2.3	8
13	Accurate predictions of orientation dependent modulus in shortâfiberâreinforced composite with experimental validation. Polymer Composites, 2018, 39, 2847-2859.	2.3	11
14	Accurate predictions of fiber orientation and mechanical properties in longâfiberâreinforced composite with experimental validation. Polymer Composites, 2018, 39, 3434-3445.	2.3	12
15	Simulation prediction of the fiber breakage history in regular and barrier structure screws in injection molding. Polymer Engineering and Science, 2018, 58, 452-459.	1.5	19
16	Effect of the packing stage on fiber orientation for injection molding simulation of fiber-reinforced composites. Journal of Thermoplastic Composite Materials, 2018, 31, 1204-1218.	2.6	7
17	The use of shear-rate-dependent parameters to improve fiber orientation predictions for injection molded fiber composites. Composites Part A: Applied Science and Manufacturing, 2018, 104, 81-88.	3.8	16
18	A new anisotropic viscous constitutive model for composites molding simulation. Composites Part A: Applied Science and Manufacturing, 2018, 115, 112-122.	3.8	56

#	ARTICLE	IF	CITATIONS
19	Numerical prediction of fiber orientation and mechanical performance for short/long glass and carbon fiber-reinforced composites. <i>Composites Science and Technology</i> , 2017, 144, 51-56.	3.8	59
20	Improved fiber orientation predictions for injection molded fiber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 99, 65-75.	3.8	41
21	Numerical predictions of fiber orientation and mechanical properties for injection-molded long-glass-fiber thermoplastic composites. <i>Composites Science and Technology</i> , 2017, 150, 181-186.	3.8	13
22	An objective tensor to predict anisotropic fiber orientation in concentrated suspensions. <i>Journal of Rheology</i> , 2016, 60, 215-224.	1.3	89
23	Prediction of fiber orientation distribution in injection molded parts using Moldex3D simulation. <i>Polymer Composites</i> , 2014, 35, 671-680.	2.3	108
24	Phenomenological improvements to predictive models of fiber orientation in concentrated suspensions. <i>Journal of Rheology</i> , 2013, 57, 1597-1631.	1.3	111
25	Molecular structural property and potential energy dependence on nonequilibrium-thermodynamic state point of liquid <i>n</i> -hexadecane under shear. <i>Journal of Chemical Physics</i> , 2011, 134, 044511.	1.2	6
26	Linear viscoelasticity and thermorheological simplicity of <i>n</i> -hexadecane fluids under oscillatory shear via non-equilibrium molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4051.	1.3	16
27	Master curves and radial distribution functions for shear dilatancy of liquid <i>n</i> -hexadecane via nonequilibrium molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2009, 130, 164515.	1.2	9
28	Nanocontraction flows of short-chain polyethylene via molecular dynamics simulations. <i>Molecular Simulation</i> , 2009, 35, 691-704.	0.9	2
29	Material functions of liquid <i>n</i> -hexadecane under steady shear via nonequilibrium molecular dynamics simulations: Temperature, pressure, and density effects. <i>Journal of Chemical Physics</i> , 2009, 130, 084904.	1.2	9
30	Shear thinning and shear dilatancy of liquid <i>n</i> -hexadecane via equilibrium and nonequilibrium molecular dynamics simulations: Temperature, pressure, and density effects. <i>Journal of Chemical Physics</i> , 2008, 129, 014502.	1.2	26