Daniel J Klingenberg

List of Publications by Year
in descending order

37 papers	2,504 citations	331259 21 h-index	433756 31 g-index
37 all docs	37 docs citations	37 times ranked	2100 citing authors

#	Article	IF	Citations
1	Magnetorheological fluids: a review. Soft Matter, 2011, 7, 3701.	1.2	900
2	Magnetorheology: Applications and challenges. AICHE Journal, 2001, 47, 246-249.	1.8	202
3	Rheology of sheared flexible fiber suspensions via fiber-level simulations. Journal of Rheology, 2003, 47, 759-778.	1.3	172
4	Simulations of fiber flocculation: Effects of fiber properties and interfiber friction. Journal of Rheology, 2000, 44, 781-809.	1.3	159
5	Rheology measurements of a biomass slurry: an inter-laboratory study. Rheologica Acta, 2009, 48, 1005-1015.	1.1	145
6	Dynamic simulation of flexible fibers composed of linked rigid bodies. Journal of Chemical Physics, 1997, 106, 2949-2960.	1.2	110
7	Electrostriction of polarizable materials: Comparison of models with experimental data. Journal of Applied Physics, 1998, 83, 7834-7843.	1.1	95
8	Material parameters for electrostriction. Journal of Applied Physics, 1996, 80, 4566-4572.	1.1	94
9	Simulation of single fiber dynamics. Journal of Chemical Physics, 1997, 107, 2108-2121.	1.2	79
10	The effect of high intensity mixing on the enzymatic hydrolysis of concentrated cellulose fiber suspensions. Bioresource Technology, 2011, 102, 4489-4494.	4.8	62
11	Friction between cellulose surfaces measured with colloidal probe microscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 178, 213-229.	2.3	61
12	Enhancing magnetorheology with nonmagnetizable particles. Applied Physics Letters, 2010, 96, .	1.5	55
13	The electrorheology of barium titanate suspensions. Journal of Rheology, 1998, 42, 639-656.	1.3	43
14	Rheological modification of corn stover biomass at high solids concentrations. Journal of Rheology, 2012, 56, 649-665.	1.3	41
15	A continuum approach to electrorheology. Journal of Rheology, 1999, 43, 1307-1322.	1.3	38
16	Transient response of magnetorheological fluids: Shear flow between concentric cylinders. Journal of Rheology, 2005, 49, 87-104.	1.3	37
17	Electrostriction of polarizable materials: Comparison of models with experimental data. Journal of Applied Physics, 1998, 83, 415-424.	1.1	35
18	Simulations of magnetorheological suspensions in Poiseuille flow. Rheologica Acta, 2006, 45, 621-629.	1.1	32

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19	Surface and friction forces between cellulose surfaces measured with colloidal probe microscopy. Nordic Pulp and Paper Research Journal, 2000, 15, 459-468.	0.3	29
20	Flipping, scooping, and spinning: Drift of rigid curved nonchiral fibers in simple shear flow. Physics of Fluids, 2012, 24, .	1.6	25
21	Rheometry of coarse biomass at high temperature and pressure. Biomass and Bioenergy, 2017, 99, 69-78.	2.9	22
22	A jamming-like mechanism of yield-stress increase caused by addition of nonmagnetizable particles to magnetorheological suspensions. Journal of Rheology, 2017, 61, 601-611.	1.3	16
23	Effects of process variables on the yield stress of rheologically modified biomass. Rheologica Acta, 2015, 54, 941-949.	1.1	15
24	A novel rheometer design for yield stress fluids. AICHE Journal, 2014, 60, 1523-1528.	1.8	8
25	Effect of temperature on the rheology of concentrated fiber suspensions. Journal of Rheology, 2019, 63, 677-691.	1.3	6
26	Pressure-driven flow of lignocellulosic biomass: A compressible Bingham fluid. Journal of Rheology, 2018, 62, 801-815.	1.3	5
27	EFFECTS OF BODY FORCES ON THE STRUCTURE AND RHEOLOGY OF ER AND MR FLUIDS. International Journal of Modern Physics B, 2007, 21, 4841-4848.	1.0	4
28	The influence of polymer adsorption, and fiber composition, on the rheology of aqueous suspensions of aspen, cotton, and corn stover pulps. Biomass and Bioenergy, 2017, 103, 47-54.	2.9	4
29	Rheology and structure of suspensions of spherocylinders via Brownian dynamics simulations. Journal of Rheology, 2021, 65, 273-288.	1.3	3
30	A TWO-FLUID MODEL FOR ELECTRO- AND MAGNETORHEOLOGICAL SUSPENSIONS. International Journal of Modern Physics B, 2002, 16, 2669-2675.	1.0	2
31	Dielectric Nanofluids for Electrostatic Machines & Actuators. , 2019, , .		2
32	SIMULATION OF BIDISPERSE MAGNETORHEOLOGICAL FLUIDS. , 2002, , .		2
33	Measuring the volume charge in dielectric films using single frequency electro-acoustic waves. Journal of Materials Research, 2014, 29, 501-508.	1.2	1
34	Modeling of MR Fluids and Devices. AIP Conference Proceedings, 2008, , .	0.3	0
35	EFFECTS OF BODY FORCES ON THE STRUCTURE AND RHEOLOGY OF ER AND MR FLUIDS. , 2007, , .		0
36	TRANSIENT BEHAVIOR OF ELECTRORHEOLOGICAL FLUIDS IN SHEAR FLOW. , 2007, , .		0

#	Article	IF	Citations
37	Dielectric nanoparticle suspensions for increased electrostatic forces. Journal of Applied Physics, 2022, 131, 044701.	1.1	0