List of Publications by Year in descending order

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LOF CODDARD

#	Article	IF	CITATIONS
1	Asymptotic expansions for laminar forced-convection heat and mass transfer. Journal of Fluid Mechanics, 1965, 23, 273.	3.4	146
2	Collapse of Spherical Cavities in Viscoelastic Fluids. Physics of Fluids, 1970, 13, 1135.	1.4	131
3	Nonlinear effects in the rheology of dilute suspensions. Journal of Fluid Mechanics, 1967, 28, 657-673.	3.4	97
4	An inverse for the Jaumann derivative and some applications to the rheology of viscoelastic fluids. Rheologica Acta, 1966, 5, 177-184.	2.4	83
5	A novel simulation method for the quasiâ€static mechanics of granular assemblages. Journal of Rheology, 1991, 35, 849-885.	2.6	80
6	A dissipative anisotropic fluid model for non-colloidal particle dispersions. Journal of Fluid Mechanics, 2006, 568, 1.	3.4	52
7	MATERIALINSTABILITY INCOMPLEXFLUIDS. Annual Review of Fluid Mechanics, 2003, 35, 113-133.	25.0	50
8	Simulation of the quasi-static mechanics and scalar transport properties of ideal granular assemblages. Journal of Computational Physics, 1995, 121, 331-346.	3.8	41
9	Dissipative materials as constitutive models for granular media. Acta Mechanica, 1986, 63, 3-13.	2.1	40
10	Continuum Modeling of Granular Media. Applied Mechanics Reviews, 2014, 66, .	10.1	40
11	The stress field of slender particles oriented by a non-Newtonian extensional flow. Journal of Fluid Mechanics, 1976, 78, 177-206.	3.4	39
12	SHEAR-FLOW AND MATERIAL INSTABILITIES IN PARTICULATE SUSPENSIONS AND GRANULAR MEDIA. Particulate Science and Technology, 1999, 17, 69-96.	2.1	35
13	Static multiplicity of stress states in granular heaps. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 2569-2588.	2.1	32
14	A solid-liquid phase-transfer catalysis in rotating-disk flow. Industrial & Engineering Chemistry Research, 1988, 27, 551-555.	3.7	29
15	Asymptotic expansions for laminar forced-convection heat and mass transfer Part 2. Boundary-layer flows. Journal of Fluid Mechanics, 1966, 24, 339-366.	3.4	28
16	Instability-induced ordering, universal unfolding and the role of gravity in granular Couette flow. Journal of Fluid Mechanics, 2005, 523, 277-306.	3.4	27
17	A fundamental model for carrier-mediated energy transduction in membranes. The Journal of Physical Chemistry, 1985, 89, 1825-1830.	2.9	24
18	Streaming birefringence in extensional flow of polymer solutions. Rheologica Acta, 1979, 18, 505-517.	2.4	23

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19	On entropy estimates of contact forces in static granular assemblies. International Journal of Solids and Structures, 2004, 41, 5851-5861.	2.7	22
20	Oscillations of a Gas Bubble in Viscoelastic Liquids Subject to Acoustic and Impulsive Pressure Variations. Journal of Applied Physics, 1971, 42, 259-263.	2.5	21
21	Edelen's dissipation potentials and the visco-plasticity of particulate media. Acta Mechanica, 2014, 225, 2239-2259.	2.1	21
22	On the stability of the μ(<i>I</i>) rheology for granular flow. Journal of Fluid Mechanics, 2017, 833, 302-331.	3.4	21
23	Experiments on the conductivity of suspensions of ionically-conductive spheres. AICHE Journal, 1990, 36, 387-396.	3.6	18
24	The dynamics of simple fluids in steady circular shear. Quarterly of Applied Mathematics, 1983, 41, 107-118.	0.7	17
25	Parametric hypoplasticity as continuum model for granular media: from Stokesium to Mohr-Coulombium and beyond. Granular Matter, 2010, 12, 145-150.	2.2	15
26	Regularization by compressibility of the <i>î¼</i> (<i>I</i>) model of dense granular flow. Physics of Fluids, 2018, 30, .	4.0	15
27	Granular Dilatancy and the Plasticity of Glassy Lubricants. Industrial & Engineering Chemistry Research, 1999, 38, 820-822.	3.7	14
28	A weakly nonlocal anisotropic fluid model for inhomogeneous Stokesian suspensions. Physics of Fluids, 2008, 20, .	4.0	13
29	Similarity solutions for stratified rotating-disk flow. Journal of Fluid Mechanics, 1987, 182, 427.	3.4	11
30	A fluid-like model of vibrated granular layers: Linear stability, kinks, and oscillons. Mechanics of Materials, 2009, 41, 637-651.	3.2	11
31	Material instability with stress localization. Journal of Non-Newtonian Fluid Mechanics, 2002, 102, 251-261.	2.4	10
32	History effects in transient diffusion through heterogeneous media. Industrial & Engineering Chemistry Research, 1992, 31, 713-721.	3.7	8
33	On material velocities and non-locality in the thermo-mechanics of continua. International Journal of Engineering Science, 2010, 48, 1279-1288.	5.0	8
34	On the Thermoelectricity of W. Thomson: Towards aÂTheory of Thermoelastic Conductors. Journal of Elasticity, 2011, 104, 267-280.	1.9	8
35	Dissipation Potentials for Reaction-Diffusion Systems. Industrial & Engineering Chemistry Research, 2015, 54, 4078-4083.	3.7	8
36	On the Spectral Representation of Stretch and Rotation. Journal of Elasticity, 1997, 47, 255-259.	1.9	7

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37	The viscous drag on solids moving through solids. AICHE Journal, 2014, 60, 1488-1498.	3.6	7
38	The Green's function for passive scalar diffusion in a homogeneously sheared continuum. Physics of Fluids A, Fluid Dynamics, 1993, 5, 2295-2297.	1.6	5
39	A note on Eringen's moment balances. International Journal of Engineering Science, 2011, 49, 1486-1493.	5.0	5
40	Symmetry relations in viscoplastic drag laws. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140434.	2.1	5
41	Remarks on isotropic extension of anisotropic constitutive functions via structural tensors. Mathematics and Mechanics of Solids, 2018, 23, 554-563.	2.4	5
42	A slender-body theory for interfacial failure in unidirectional fiber-reinforced composites. Polymer Engineering and Science, 1979, 19, 125-130.	3.1	3
43	Viscous interlayer structure and transport properties in von Kármán swirling flows. Physics of Fluids A, Fluid Dynamics, 1989, 1, 132-139.	1.6	3
44	Dissipation potentials from elastic collapse. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190144.	2.1	3
45	A note on a statistical-mechanical treatment of activation-limited surface diffusion. Reaction Kinetics and Catalysis Letters, 1974, 1, 57-66.	0.6	2
46	On linear non-local thermo-viscoelastic waves in fluids. Mathematics and Mechanics of Complex Systems, 2018, 6, 321-338.	0.9	2
47	Elongational Flows: Aspects of the Behavior of Model Viscoelastic Fluid. By C. J. S. P ETRIE . Pitman, 1979. 254 pp. \$17.50 Journal of Fluid Mechanics, 1979, 95, 787.	3.4	1
48	The influence of swirl and confinement on the stability of counterflowing streams. Journal of Fluid Mechanics, 1993, 251, 149-172.	3.4	1
49	A note on the generalized Rayleigh quotient for nonâ€selfâ€adjoint linear stability operators. Physics of Fluids A, Fluid Dynamics, 1993, 5, 1269-1271.	1.6	1
50	The second law of thermodynamics as variation on a theme of Carathéodory. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20210425.	2.1	1
51	On nonlinear Onsager symmetry and mass-action kinetics. Combustion Science and Technology, 2023, 195, 3627-3637.	2.3	1
52	Thermoelectricity: Thomson vs Onsager, with advice from Maxwell. Physics of Fluids, 2021, 33, .	4.0	1
53	Mechanics of Non-Newtonian Fluids. By W. R. S CHOWALTER . Pergamon Press, 1978. 300 pp. \$35.00 or £17.50 Journal of Fluid Mechanics, 1980, 100, 671.	3.4	0
54	Theory of Structured Multiphase Mixtures. By F. D OBRAN . Springer, 1991. 223 pp. DM42 Journal of Fluid Mechanics, 1992, 243, 722.	3.4	0

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55	Experimental observations and marginal stability calculations for counterflowing streams with swirl. Physics of Fluids, 1994, 6, 1464-1471.	4.0	0
56	A note on path-dependent strain measures and strain jumps in Isotropie simple materials. Journal of Non-Newtonian Fluid Mechanics, 1994, 54, 195-199.	2.4	0
57	Material Instability in Rapid Granular Shear Flow. Materials Research Society Symposia Proceedings, 2000, 627, 1.	0.1	0
58	A Graphâ^'Theoretical View of Chemical Transport and Reaction on Networks. Industrial & Engineering Chemistry Research, 2002, 41, 473-477.	3.7	0
59	À la recherche des années perdues, or, my life is more interesting than formerly thought. Acta Mechanica, 2009, 205, 3-8.	2.1	Ο
60	Micromorphic Balances and Source-flux Duality. AIP Conference Proceedings, 2011, , .	0.4	0
61	Frictionless conveying of frictional materials. Granular Matter, 2012, 14, 145-149.	2.2	0
62	Tribute to Krzysztof Wilmanski. Acta Mechanica, 2014, 225, 2161-2162.	2.1	0
63	Radiative transfer and flux theory. Mathematics and Mechanics of Solids, 2015, 20, 327-344.	2.4	Ο