

Joe Goddard

List of Publications by Year in descending order

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63
papers

1,292
citations

331670

21
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345221

36
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64
all docs

64
docs citations

64
times ranked

682
citing authors

#	ARTICLE	IF	CITATIONS
1	On nonlinear Onsager symmetry and mass-action kinetics. Combustion Science and Technology, 2023, 195, 3627-3637.	2.3	1
2	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
3	Thermoelectricity: Thomson vs Onsager, with advice from Maxwell. Physics of Fluids, 2021, 33, .	4.0	1
4	Dissipation potentials from elastic collapse. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190144.	2.1	3
5	Remarks on isotropic extension of anisotropic constitutive functions via structural tensors. Mathematics and Mechanics of Solids, 2018, 23, 554-563.	2.4	5
6	On linear non-local thermo-viscoelastic waves in fluids. Mathematics and Mechanics of Complex Systems, 2018, 6, 321-338.	0.9	2
7	Regularization by compressibility of the μ -I model of dense granular flow. Physics of Fluids, 2018, 30, .	4.0	15
8	On the stability of the μ -I rheology for granular flow. Journal of Fluid Mechanics, 2017, 833, 302-331.	3.4	21
9	Dissipation Potentials for Reaction-Diffusion Systems. Industrial & Engineering Chemistry Research, 2015, 54, 4078-4083.	3.7	8
10	Radiative transfer and flux theory. Mathematics and Mechanics of Solids, 2015, 20, 327-344.	2.4	0
11	Continuum Modeling of Granular Media. Applied Mechanics Reviews, 2014, 66, .	10.1	40
12	Symmetry relations in viscoplastic drag laws. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140434.	2.1	5
13	The viscous drag on solids moving through solids. AIChE Journal, 2014, 60, 1488-1498.	3.6	7
14	Tribute to Krzysztof Wilmanski. Acta Mechanica, 2014, 225, 2161-2162.	2.1	0
15	Edelen's dissipation potentials and the visco-plasticity of particulate media. Acta Mechanica, 2014, 225, 2239-2259.	2.1	21
16	Frictionless conveying of frictional materials. Granular Matter, 2012, 14, 145-149.	2.2	0
17	A note on Eringen's moment balances. International Journal of Engineering Science, 2011, 49, 1486-1493.	5.0	5
18	On the Thermoelectricity of W. Thomson: Towards a Theory of Thermoelastic Conductors. Journal of Elasticity, 2011, 104, 267-280.	1.9	8

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19	Micromorphic Balances and Source-flux Duality. AIP Conference Proceedings, 2011, , .	0.4	0
20	Parametric hypoplasticity as continuum model for granular media: from Stokesium to Mohr-Coulombium and beyond. Granular Matter, 2010, 12, 145-150.	2.2	15
21	On material velocities and non-locality in the thermo-mechanics of continua. International Journal of Engineering Science, 2010, 48, 1279-1288.	5.0	8
22	À la recherche des années perdues, or, my life is more interesting than formerly thought. Acta Mechanica, 2009, 205, 3-8.	2.1	0
23	A fluid-like model of vibrated granular layers: Linear stability, kinks, and oscillons. Mechanics of Materials, 2009, 41, 637-651.	3.2	11
24	A weakly nonlocal anisotropic fluid model for inhomogeneous Stokesian suspensions. Physics of Fluids, 2008, 20, .	4.0	13
25	A dissipative anisotropic fluid model for non-colloidal particle dispersions. Journal of Fluid Mechanics, 2006, 568, 1.	3.4	52
26	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
27	On entropy estimates of contact forces in static granular assemblies. International Journal of Solids and Structures, 2004, 41, 5851-5861.	2.7	22
28	MATERIAL INSTABILITY IN COMPLEX FLUIDS. Annual Review of Fluid Mechanics, 2003, 35, 113-133.	25.0	50
29	A Graphical Theoretical View of Chemical Transport and Reaction on Networks. Industrial & Engineering Chemistry Research, 2002, 41, 473-477.	3.7	0
30	Material instability with stress localization. Journal of Non-Newtonian Fluid Mechanics, 2002, 102, 251-261.	2.4	10
31	Material Instability in Rapid Granular Shear Flow. Materials Research Society Symposia Proceedings, 2000, 627, 1.	0.1	0
32	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
33	SHEAR-FLOW AND MATERIAL INSTABILITIES IN PARTICULATE SUSPENSIONS AND GRANULAR MEDIA. Particulate Science and Technology, 1999, 17, 69-96.	2.1	35
34	Granular Dilatancy and the Plasticity of Glassy Lubricants. Industrial & Engineering Chemistry Research, 1999, 38, 820-822.	3.7	14
35	On the Spectral Representation of Stretch and Rotation. Journal of Elasticity, 1997, 47, 255-259.	1.9	7
36	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

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37	Experimental observations and marginal stability calculations for counterflowing streams with swirl. <i>Physics of Fluids</i> , 1994, 6, 1464-1471.	4.0	0
38	A note on path-dependent strain measures and strain jumps in Isotropic simple materials. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1994, 54, 195-199.	2.4	0
39	The influence of swirl and confinement on the stability of counterflowing streams. <i>Journal of Fluid Mechanics</i> , 1993, 251, 149-172.	3.4	1
40	A note on the generalized Rayleigh quotient for non-self-adjoint linear stability operators. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1269-1271.	1.6	1
41	The Green's function for passive scalar diffusion in a homogeneously sheared continuum. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 2295-2297.	1.6	5
42	Theory of Structured Multiphase Mixtures. By F. D OBRAN . Springer, 1991. 223 pp. DM42.. <i>Journal of Fluid Mechanics</i> , 1992, 243, 722.	3.4	0
43	History effects in transient diffusion through heterogeneous media. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 713-721.	3.7	8
44	A novel simulation method for the quasi-static mechanics of granular assemblages. <i>Journal of Rheology</i> , 1991, 35, 849-885.	2.6	80
45	Experiments on the conductivity of suspensions of ionically-conductive spheres. <i>AICHE Journal</i> , 1990, 36, 387-396.	3.6	18
46	Viscous interlayer structure and transport properties in von Kármán swirling flows. <i>Physics of Fluids A, Fluid Dynamics</i> , 1989, 1, 132-139.	1.6	3
47	A solid-liquid phase-transfer catalysis in rotating-disk flow. <i>Industrial & Engineering Chemistry Research</i> , 1988, 27, 551-555.	3.7	29
48	Similarity solutions for stratified rotating-disk flow. <i>Journal of Fluid Mechanics</i> , 1987, 182, 427.	3.4	11
49	Dissipative materials as constitutive models for granular media. <i>Acta Mechanica</i> , 1986, 63, 3-13.	2.1	40
50	A fundamental model for carrier-mediated energy transduction in membranes. <i>The Journal of Physical Chemistry</i> , 1985, 89, 1825-1830.	2.9	24
51	The dynamics of simple fluids in steady circular shear. <i>Quarterly of Applied Mathematics</i> , 1983, 41, 107-118.	0.7	17
52	Mechanics of Non-Newtonian Fluids. By W. R. S CHOWALTER . Pergamon Press, 1978. 300 pp. \$35.00 or £17.50.. <i>Journal of Fluid Mechanics</i> , 1980, 100, 671.	3.4	0
53	A slender-body theory for interfacial failure in unidirectional fiber-reinforced composites. <i>Polymer Engineering and Science</i> , 1979, 19, 125-130.	3.1	3
54	Streaming birefringence in extensional flow of polymer solutions. <i>Rheologica Acta</i> , 1979, 18, 505-517.	2.4	23

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55	Elongational Flows: Aspects of the Behavior of Model Viscoelastic Fluid. By C. J. S. PETRIE . Pitman, 1979. 254 pp. \$17.50.. Journal of Fluid Mechanics, 1979, 95, 787.	3.4	1
56	The stress field of slender particles oriented by a non-Newtonian extensional flow. Journal of Fluid Mechanics, 1976, 78, 177-206.	3.4	39
57	A note on a statistical-mechanical treatment of activation-limited surface diffusion. Reaction Kinetics and Catalysis Letters, 1974, 1, 57-66.	0.6	2
58	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
59	Collapse of Spherical Cavities in Viscoelastic Fluids. Physics of Fluids, 1970, 13, 1135.	1.4	131
60	Nonlinear effects in the rheology of dilute suspensions. Journal of Fluid Mechanics, 1967, 28, 657-673.	3.4	97
61	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
62	An inverse for the Jaumann derivative and some applications to the rheology of viscoelastic fluids. Rheologica Acta, 1966, 5, 177-184.	2.4	83
63	Asymptotic expansions for laminar forced-convection heat and mass transfer. Journal of Fluid Mechanics, 1965, 23, 273.	3.4	146