Mario Minale

List of Publications by Year
in descending order

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57 papers	1,456 citations	331259 21 h-index	329751 37 g-index
61 all docs	61 docs citations	61 times ranked	837 citing authors

#	Article	IF	Citations
1	The effect of monoethylene glycol on the stability of waterâ€inâ€oil emulsions. Canadian Journal of Chemical Engineering, 2022, 100, 44-53.	0.9	1
2	HPMC Hydrogel Formation Mechanisms Unveiled by the Evaluation of the Activation Energy. Polymers, 2022, 14, 635.	2.0	8
3	Phenomenological study of the micro- and macroscopic mechanisms during polymer flooding with SiO2 nanoparticles. Journal of Petroleum Science and Engineering, 2021, 198, 108135.	2.1	17
4	The microstructural change causing the failure of the Cox-Merz rule in Newtonian suspensions: experiments and simulations. Rheologica Acta, 2021, 60, 309-325.	1.1	8
5	Use of biogas containing CH4, H2 and C02 in controlled auto-ignition engines to reduce NOx emissions. Fuel, 2021, 301, 120925.	3.4	12
6	Irreversibility and rate dependence in sheared adhesive suspensions. Physical Review Fluids, 2021, 6, .	1.0	3
7	The peculiar role of C/N and initial pH in anaerobic digestion of lactating and non-lactating water buffalo manure. Waste Management, 2020, 103, 12-21.	3.7	19
8	Non-Brownian Newtonian suspensions may be rate dependent in time sweep oscillatory shear flow. Journal of Rheology, 2020, 64, 1075-1085.	1.3	6
9	Nonisothermal Crystallization Kinetics of an Ethyleneâ€Vinylâ€Acetate: I Calorimetry Versus Rheology. Polymer Engineering and Science, 2019, 59, 2557-2563.	1.5	5
10	Effect of the NiO/SiO₂ Nanoparticles-Assisted Ultrasound Cavitation Process on the Rheological Properties of Heavy Crude Oil: Steady State Rheometry and Oscillatory Tests. Energy & Fuels, 2019, 33, 9671-9680.	2.5	22
11	Rough geometries with viscoelastic Boger fluids: Predicting the apparent wall slip with a porous medium approach. Journal of Rheology, 2019, 63, 569-582.	1.3	14
12	Nonâ€Isothermal Crystallization Kinetics of an Ethyleneâ€Vinylâ€Acetate. II. Timeâ€Temperatureâ€Crystallinityâ€Superposition. Polymer Engineering and Science, 2019, 59, 2550-2556.	1.5	5
13	Combustion of Hydrogen Enriched Methane and Biogases Containing Hydrogen in a Controlled Auto-Ignition Engine. Applied Sciences (Switzerland), 2018, 8, 2667.	1.3	12
14	Dependence of suspension complex viscosity on frequency: Strain-controlled vs. stress-controlled tests. AIP Conference Proceedings, 2018, , .	0.3	2
15	Rheological tests with a Boger fluid and a rough geometry. AIP Conference Proceedings, 2018, , .	0.3	1
16	Effect of solvents on the microstructure aggregation of a heavy crude oil. Fuel Processing Technology, 2018, 177, 299-308.	3.7	26
17	Impact Forces of a Supercritical Flow of a Shear Thinning Slurry Against an Obstacle. , 2017, , 391-398.		1
18	Modelling the flow of a second order fluid through and over a porous medium using the volume averages. I. The generalized Brinkmanâ€™s equation. Physics of Fluids, 2016, 28, 023102.	1.6	10

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19	Modelling the flow of a second order fluid through and over a porous medium using the volume averages. II. The stress boundary condition. Physics of Fluids, 2016, 28, .	1.6	14
20	Effect of the Soil Organic Content on Slurries Involved in Mudflows. Procedia Earth and Planetary Science, 2016, 16, 89-97.	0.6	3
21	Rheology and mechanics of polyether(ether)ketone â€“ Polyetherimide blends for composites in aeronautics. AIP Conference Proceedings, 2016, , .	0.3	8
22	Chemicalâ€“physical analysis of rheologically different samples of a heavy crude oil. Fuel Processing Technology, 2016, 148, 236-247.	3.7	38
23	Biogas Production from Anaerobic Digestion of Manure at Different Operative Conditions. International Journal of Heat and Technology, 2016, 34, 623-629.	0.3	8
24	Temperature and pH effect on methane production from buffalo manure anaerobic Digestion. International Journal of Heat and Technology, 2016, 34, S425-S429.	0.3	21
25	Temperature and pH effect on methane production from buffalo manure anaerobic Digestion. International Journal of Heat and Technology, 2016, 34, S425-S429.	0.3	4
26	Predicting the apparent wall slip when using roughened geometries: A porous medium approach. Journal of Rheology, 2015, 59, 1131-1149.	1.3	35
27	Rheology of natural slurries involved in a rapid mudflow with different soil organic carbon content. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 466, 57-65.	2.3	35
28	Momentum transfer within a porous medium. I. Theoretical derivation of the momentum balance on the solid skeleton. Physics of Fluids, 2014, 26, .	1.6	31
29	Momentum transfer within a porous medium. II. Stress boundary condition. Physics of Fluids, 2014, 26, .	1.6	38
30	Effect of frequency on the complex viscosity of a concentrated non-Brownian suspension. AIP Conference Proceedings, 2014, , .	0.3	5
31	On the use of rough geometries in rheometry. Journal of Non-Newtonian Fluid Mechanics, 2013, 198, 39-47.	1.0	42
32	A new experimental technique to study the flow in a porous layer via rheological tests. AIP Conference Proceedings, 2012, , .	0.3	21
33	DGGE analysis of buffalo manure eubacteria for hydrogen production: effect of pH, temperature and pretreatments. Molecular Biology Reports, 2012, 39, 10193-10200.	1.0	13
34	Numerical predictions of the viscosity of non-Brownian suspensions in the semidilute regime. Journal of Rheology, 2011, 55, 1319-1340.	1.3	8
35	Shear flow over a porous layer: Velocity in the real proximity of the interface via rheological tests. Physics of Fluids, 2011, 23, .	1.6	27
36	Models for the deformation of a single ellipsoidal drop: a review. Rheologica Acta, 2010, 49, 789-806.	1.1	74

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37	Effect of Solvent Viscoelasticity on the Stress Induced Demixing. , 2010, , .		0
38	Microconfined Shear Deformation of a Droplet in an Equiviscous Non-Newtonian Immiscible Fluid: Experiments and Modeling. Langmuir, 2010, 26, 126-132.	1.6	35
39	A phenomenological model for wall effects on the deformation of an ellipsoidal drop in viscous flow. Rheologica Acta, 2008, 47, 667-675.	1.1	36
40	Stress Induced Demixing of a Polymer Solution: Mechanic Interpretation with a Suitable Formulation of the Two-Fluid Theory. Macromolecules, 2008, 41, 4471-4478.	2.2	4
41	Drop shape dynamics of a Newtonian drop in a non-Newtonian matrix during transient and steady shear flow. Journal of Rheology, 2007, 51, 261-273.	1.3	43
42	Deformation of a non-Newtonian ellipsoidal drop in a non-Newtonian matrix: extension of Maffettoneâ€“Minale model. Journal of Non-Newtonian Fluid Mechanics, 2004, 123, 151-160.	1.0	42
43	Morphology estimation from normal stress measurements for dilute immiscible polymer blends. Rheologica Acta, 2003, 42, 158-165.	1.1	7
44	Two-fluid demixing theory predictions of stress-induced turbidity of polystyrene solutions in dioctyl phthalate. Journal of Rheology, 2003, 47, 1-17.	1.3	7
45	Rheology and rheological morphology determination in immiscible two-phase polymer model blends. Journal of Non-Newtonian Fluid Mechanics, 2000, 93, 153-165.	1.0	44
46	Drop shape dynamics under shear-flow reversal. Journal of Rheology, 2000, 44, 1385-1399.	1.3	53
47	Rheology of semi-dilute emulsions: viscoelastic effects caused by the interfacial tension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 150, 217-228.	2.3	26
48	Transient flow experiments in a model immiscible polymer blend. Journal of Rheology, 1999, 43, 815-827.	1.3	29
49	Study of the morphological hysteresis in immiscible polymer blends. AICHE Journal, 1998, 44, 943-950.	1.8	69
50	Dynamics of stiff polymers with the slightly-bending-rod model1Dedicated to the memory of Professor Gianni Astarita.1. Journal of Non-Newtonian Fluid Mechanics, 1998, 76, 351-362.	1.0	1
51	Equation of change for ellipsoidal drops in viscous flow. Journal of Non-Newtonian Fluid Mechanics, 1998, 78, 227-241.	1.0	293
52	Coupling effects between stress and concentration changes in polymers. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 78, 215-219.	0.6	2
53	Effect of Shear History on the Morphology of Immiscible Polymer Blends. Macromolecules, 1997, 30, 5470-5475.	2.2	141
54	Ice streams in Antarctica: transverse instability of gravity driven flow. Journal of Non-Newtonian Fluid Mechanics, 1996, 62, 155-174.	1.0	4

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55	On mass diffusion effects in a Stefan-like problem arising in the melting of antarctic ice shelves. Chemical Engineering Science, 1994, 49, 3205-3215.	1.9	2
56	Heat-transfer analysis of the basal melting of antarctic ice shelves. AICHE Journal, 1993, 39, 2019-2026.	1.8	3
57	Dependence of flow behaviour of nematics in shear on the form of the mean-field potential. Die Makromolekulare Chemie Theory and Simulations, 1993, 2, 863-873.	1.0	0