

Thibaut Divoux

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,741
citations

236612

25
h-index

182168

51
g-index

57
all docs

57
docs citations

57
times ranked

2316
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-induced memory effects in boehmite gels. <i>Journal of Rheology</i> , 2022, 66, 91-104.	1.3	11
2	Printable, castable, nanocrystalline cellulose-epoxy composites exhibiting hierarchical nacre-like toughening. <i>Cellulose</i> , 2022, 29, 2387-2398.	2.4	4
3	Residual stresses and shear-induced overaging in boehmite gels. <i>Physical Review Materials</i> , 2022, 6, .	0.9	7
4	Nonlinear Mechanics of Colloidal Gels: Creep, Fatigue, and Shear-Induced Yielding. , 2022, , 313-336.		2
5	Time-“connectivity superposition and the gel/glass duality of weak colloidal gels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	30
6	Time-resolved rheometry of drying liquids and suspensions. <i>Journal of Rheology</i> , 2021, 65, 427-436.	1.3	2
7	Stress Overshoots in Simple Yield Stress Fluids. <i>Physical Review Letters</i> , 2021, 127, 148003.	2.9	20
8	Continuum modeling of shear startup in soft glassy materials. <i>Physical Review E</i> , 2021, 104, 034612.	0.8	8
9	Creep in reactive colloidal gels: A nanomechanical study of cement hydrates. <i>Physical Review Research</i> , 2021, 3, .	1.3	14
10	Nacre toughening due to cooperative plastic deformation of stacks of co-oriented aragonite platelets. <i>Communications Materials</i> , 2020, 1, .	2.9	24
11	A fluorous sodium <sc>I</sc>-prolinate derivative as low molecular weight gelator for perfluorocarbons. <i>Chemical Communications</i> , 2020, 56, 8655-8658.	2.2	5
12	Criterion for Fingering Instabilities in Colloidal Gels. <i>Physical Review Letters</i> , 2020, 124, 248006.	2.9	7
13	Chemo-mechanical characterization of hydrated calcium-hydrosilicates with coupled Raman- and nanoindentation measurements. <i>Applied Geochemistry</i> , 2020, 118, 104582.	1.4	10
14	Characterization of meso-scale mechanical properties of Longmaxi shale using grid microindentation experiments. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 13, 555-555.	3.7	22
15	Nonlinear Mechanics of Colloidal Gels: Creep, Fatigue, and Shear-Induced Yielding. , 2020, , 1-24.		2
16	Hydrodynamics control shear-induced pattern formation in attractive suspensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12193-12198.	3.3	53
17	Shear melting and recovery of crosslinkable cellulose nanocrystal-“polymer gels. <i>Soft Matter</i> , 2019, 15, 4401-4412.	1.2	12
18	Unified Theoretical and Experimental View on Transient Shear Banding. <i>Physical Review Letters</i> , 2019, 123, 248001.	2.9	18

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19	Improving the practicality and safety of artificial corneas: Pre-assembly and gamma-rays sterilization of the Boston Keratoprosthesis. <i>Ocular Surface</i> , 2018, 16, 322-330.	2.2	24
20	Time-Resolved Mechanical Spectroscopy of Soft Materials via Optimally Windowed Chirps. <i>Physical Review X</i> , 2018, 8, .	2.8	21
21	Computing the linear viscoelastic properties of soft gels using an optimally windowed chirp protocol. <i>Journal of Rheology</i> , 2018, 62, 1037-1050.	1.3	28
22	Impact of saccharides on the drying kinetics of agarose gels measured by in-situ interferometry. <i>Scientific Reports</i> , 2017, 7, 41185.	1.6	16
23	Understanding rheological hysteresis in soft glassy materials. <i>Soft Matter</i> , 2017, 13, 1834-1852.	1.2	46
24	Nonlinear Viscoelasticity and Generalized Failure Criterion for Polymer Gels. <i>ACS Macro Letters</i> , 2017, 6, 663-667.	2.3	40
25	Yield stress materials in soft condensed matter. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	511
26	Heat-induced aging of agar solutions: Impact on the structural and mechanical properties of agar gels. <i>Food Hydrocolloids</i> , 2017, 64, 59-69.	5.6	25
27	Simultaneous Rheoelectric Measurements of Strongly Conductive Complex Fluids. <i>Physical Review Applied</i> , 2016, 6, .	1.5	56
28	Normal force controlled rheology applied to agar gelation. <i>Journal of Rheology</i> , 2016, 60, 473-489.	1.3	55
29	Superflexibility of graphene oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11088-11093.	3.3	125
30	Shear Banding of Complex Fluids. <i>Annual Review of Fluid Mechanics</i> , 2016, 48, 81-103.	10.8	222
31	Wall slip across the jamming transition of soft thermoresponsive particles. <i>Physical Review E</i> , 2015, 92, 060301.	0.8	23
32	Avalanche-like fluidization of a non-Brownian particle gel. <i>Soft Matter</i> , 2015, 11, 9026-9037.	1.2	41
33	Syneresis and delayed detachment in agar plates. <i>Soft Matter</i> , 2015, 11, 3677-3685.	1.2	31
34	Creep and Fracture of a Protein Gel under Stress. <i>Physical Review Letters</i> , 2014, 113, 038303.	2.9	88
35	Timescales in creep and yielding of attractive gels. <i>Soft Matter</i> , 2014, 10, 1555.	1.2	98
36	Turbulent flows in highly elastic wormlike micelles. <i>Soft Matter</i> , 2013, 9, 735-749.	1.2	36

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37	Rheological Hysteresis in Soft Glassy Materials. Physical Review Letters, 2013, 110, 018304.	2.9	122
38	Insights on the local dynamics induced by thermal cycling in granular matter. Europhysics Letters, 2013, 104, 24001.	0.7	12
39	Yielding dynamics of a Herschel-Bulkley fluid: a critical-like fluidization behaviour. Soft Matter, 2012, 8, 4151.	1.2	68
40	Interplay between elastic instabilities and shear-banding: three categories of Taylor-Couette flows and beyond. Soft Matter, 2012, 8, 10072.	1.2	47
41	Shear-banding in surfactant wormlike micelles: elastic instabilities and wall slip. Soft Matter, 2012, 8, 2535.	1.2	56
42	Influence of non-Newtonian rheology on magma degassing. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	11
43	From stress-induced fluidization processes to Herschel-Bulkley behaviour in simple yield stress fluids. Soft Matter, 2011, 7, 8409.	1.2	144
44	Stress overshoot in a simple yield stress fluid: An extensive study combining rheology and velocimetry. Soft Matter, 2011, 7, 9335.	1.2	127
45	Degassing cascades in a shear-thinning viscoelastic fluid. Physical Review E, 2011, 84, 066302.	0.8	6
46	Transient Shear Banding in a Simple Yield Stress Fluid. Physical Review Letters, 2010, 104, 208301.	2.9	185
47	Dynamics of soap bubble bursting and its implications to volcano acoustics. Geophysical Research Letters, 2010, 37, .	1.5	20
48	Intermittent outgassing through a non-Newtonian fluid. Physical Review E, 2009, 79, 056204.	0.8	24
49	Arch size distribution in a two-dimensional pile of disks. , 2009, , .		1
50	Aging of a granular pile induced by thermal cycling. , 2009, , .		3
51	Creep Motion of a Granular Pile Induced by Thermal Cycling. Physical Review Letters, 2008, 101, 148303.	2.9	51
52	Acoustic emission associated with the bursting of a gas bubble at the free surface of a non-Newtonian fluid. Physical Review E, 2008, 77, 056310.	0.8	19
53	Friction and Dilatancy in Immersed Granular Matter. Physical Review Letters, 2007, 99, 258301.	2.9	22
54	Acoustic signal associated with the bursting of a soap film which initially closes an overpressurized cavity. European Physical Journal B, 2006, 54, 321-339.	0.6	25

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55	Turbulent drag reduction by surfactants. <i>Europhysics Letters</i> , 2006, 74, 362-368.	0.7	47
56	Invited review: Effect of temperature on a granular pile. <i>Papers in Physics</i> , 0, 2, 020006.	0.2	9
57	Slow dynamics and time-composition superposition in gels of cellulose nanocrystals. <i>Journal of Chemical Physics</i> , 0, , .	1.2	5