## **Thibaut Divoux**

List of Publications by Year in descending order

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ΤΗΙΒΑΠΤ ΠΙΛΟΠΧ

#	Article	IF	CITATIONS
1	Yield stress materials in soft condensed matter. Reviews of Modern Physics, 2017, 89, .	45.6	511
2	Shear Banding of Complex Fluids. Annual Review of Fluid Mechanics, 2016, 48, 81-103.	25.0	222
3	Transient Shear Banding in a Simple Yield Stress Fluid. Physical Review Letters, 2010, 104, 208301.	7.8	185
4	From stress-induced fluidization processes to Herschel-Bulkley behaviour in simple yield stress fluids. Soft Matter, 2011, 7, 8409.	2.7	144
5	Stress overshoot in a simple yield stress fluid: An extensive study combining rheology and velocimetry. Soft Matter, 2011, 7, 9335.	2.7	127
6	Superflexibility of graphene oxide. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11088-11093.	7.1	125
7	Rheological Hysteresis in Soft Glassy Materials. Physical Review Letters, 2013, 110, 018304.	7.8	122
8	Timescales in creep and yielding of attractive gels. Soft Matter, 2014, 10, 1555.	2.7	98
9	Creep and Fracture of a Protein Gel under Stress. Physical Review Letters, 2014, 113, 038303.	7.8	88
10	Yielding dynamics of a Herschel–Bulkley fluid: a critical-like fluidization behaviour. Soft Matter, 2012, 8, 4151.	2.7	68
11	Shear-banding in surfactant wormlike micelles: elastic instabilities and wall slip. Soft Matter, 2012, 8, 2535.	2.7	56
12	Simultaneous Rheoelectric Measurements of Strongly Conductive Complex Fluids. Physical Review Applied, 2016, 6, .	3.8	56
13	Normal force controlled rheology applied to agar gelation. Journal of Rheology, 2016, 60, 473-489.	2.6	55
14	Hydrodynamics control shear-induced pattern formation in attractive suspensions. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12193-12198.	7.1	53
15	Creep Motion of a Granular Pile Induced by Thermal Cycling. Physical Review Letters, 2008, 101, 148303.	7.8	51
16	Turbulent drag reduction by surfactants. Europhysics Letters, 2006, 74, 362-368.	2.0	47
17	Interplay between elastic instabilities and shear-banding: three categories of Taylor–Couette flows and beyond. Soft Matter, 2012, 8, 10072.	2.7	47
18	Understanding rheological hysteresis in soft glassy materials. Soft Matter, 2017, 13, 1834-1852.	2.7	46

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19	Avalanche-like fluidization of a non-Brownian particle gel. Soft Matter, 2015, 11, 9026-9037.	2.7	41
20	Nonlinear Viscoelasticity and Generalized Failure Criterion for Polymer Gels. ACS Macro Letters, 2017, 6, 663-667.	4.8	40
21	Turbulent flows in highly elastic wormlike micelles. Soft Matter, 2013, 9, 735-749.	2.7	36
22	Syneresis and delayed detachment in agar plates. Soft Matter, 2015, 11, 3677-3685.	2.7	31
23	Time–connectivity superposition and the gel/glass duality of weak colloidal gels. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	30
24	Computing the linear viscoelastic properties of soft gels using an optimally windowed chirp protocol. Journal of Rheology, 2018, 62, 1037-1050.	2.6	28
25	Acoustic signal associated with the bursting of a soap film which initially closes an overpressurized cavity. European Physical Journal B, 2006, 54, 321-339.	1.5	25
26	Heat-induced aging of agar solutions: Impact on the structural and mechanical properties of agar gels. Food Hydrocolloids, 2017, 64, 59-69.	10.7	25
27	Intermittent outgassing through a non-Newtonian fluid. Physical Review E, 2009, 79, 056204.	2.1	24
28	Improving the practicality and safety of artificial corneas: Pre-assembly and gamma-rays sterilization of the Boston Keratoprosthesis. Ocular Surface, 2018, 16, 322-330.	4.4	24
29	Nacre toughening due to cooperative plastic deformation of stacks of co-oriented aragonite platelets. Communications Materials, 2020, 1, .	6.9	24
30	Wall slip across the jamming transition of soft thermoresponsive particles. Physical Review E, 2015, 92, 060301.	2.1	23
31	Friction and Dilatancy in Immersed Granular Matter. Physical Review Letters, 2007, 99, 258301.	7.8	22
32	Characterization of meso-scale mechanical properties of Longmaxi shale using grid microindentation experiments. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 13, 555-555.	8.1	22
33	Time-Resolved Mechanical Spectroscopy of Soft Materials via Optimally Windowed Chirps. Physical Review X, 2018, 8, .	8.9	21
34	Dynamics of soap bubble bursting and its implications to volcano acoustics. Geophysical Research Letters, 2010, 37, .	4.0	20
35	Stress Overshoots in Simple Yield Stress Fluids. Physical Review Letters, 2021, 127, 148003.	7.8	20
36	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.	2.1	19

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37	Unified Theoretical and Experimental View on Transient Shear Banding. Physical Review Letters, 2019, 123, 248001.	7.8	18
38	Impact of saccharides on the drying kinetics of agarose gels measured by in-situ interferometry. Scientific Reports, 2017, 7, 41185.	3.3	16
39	Creep in reactive colloidal gels: A nanomechanical study of cement hydrates. Physical Review Research, 2021, 3, .	3.6	14
40	Insights on the local dynamics induced by thermal cycling in granular matter. Europhysics Letters, 2013, 104, 24001.	2.0	12
41	Shear melting and recovery of crosslinkable cellulose nanocrystal–polymer gels. Soft Matter, 2019, 15, 4401-4412.	2.7	12
42	Influence of non-Newtonian rheology on magma degassing. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	11
43	Shear-induced memory effects in boehmite gels. Journal of Rheology, 2022, 66, 91-104.	2.6	11
44	Chemo-mechanical characterization of hydrated calcium-hydrosilicates with coupled Raman- and nanoindentation measurements. Applied Geochemistry, 2020, 118, 104582.	3.0	10
45	Invited review: Effect of temperature on a granular pile. Papers in Physics, 0, 2, 020006.	0.2	9
46	Continuum modeling of shear startup in soft glassy materials. Physical Review E, 2021, 104, 034612.	2.1	8
47	Criterion for Fingering Instabilities in Colloidal Gels. Physical Review Letters, 2020, 124, 248006.	7.8	7
48	Residual stresses and shear-induced overaging in boehmite gels. Physical Review Materials, 2022, 6, .	2.4	7
49	Degassing cascades in a shear-thinning viscoelastic fluid. Physical Review E, 2011, 84, 066302.	2.1	6
50	A fluorous sodium <scp>l</scp> -prolinate derivative as low molecular weight gelator for perfluorocarbons. Chemical Communications, 2020, 56, 8655-8658.	4.1	5
51	Slow dynamics and time-composition superposition in gels of cellulose nanocrystals. Journal of Chemical Physics, 0, , .	3.0	5
52	Printable, castable, nanocrystalline cellulose-epoxy composites exhibiting hierarchical nacre-like toughening. Cellulose, 2022, 29, 2387-2398.	4.9	4
53	Aging of a granular pile induced by thermal cycling. , 2009, , .		3
54	Time-resolved rheometry of drying liquids and suspensions. Journal of Rheology, 2021, 65, 427-436.	2.6	2

#	Article	IF	CITATIONS
55	Nonlinear Mechanics of Colloidal Gels: Creep, Fatigue, and Shear-Induced Yielding. , 2020, , 1-24.		2
56	Nonlinear Mechanics of Colloidal Gels: Creep, Fatigue, and Shear-Induced Yielding. , 2022, , 313-336.		2
57	Arch size distribution in a two-dimensional pile of disks. , 2009, , .		1