

# 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	Yield stress materials in soft condensed matter. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	511
2	Shear Banding of Complex Fluids. <i>Annual Review of Fluid Mechanics</i> , 2016, 48, 81-103.	10.8	222
3	Transient Shear Banding in a Simple Yield Stress Fluid. <i>Physical Review Letters</i> , 2010, 104, 208301.	2.9	185
4	From stress-induced fluidization processes to Herschel-Bulkley behaviour in simple yield stress fluids. <i>Soft Matter</i> , 2011, 7, 8409.	1.2	144
5	Stress overshoot in a simple yield stress fluid: An extensive study combining rheology and velocimetry. <i>Soft Matter</i> , 2011, 7, 9335.	1.2	127
6	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
7	Rheological Hysteresis in Soft Glassy Materials. <i>Physical Review Letters</i> , 2013, 110, 018304.	2.9	122
8	Timescales in creep and yielding of attractive gels. <i>Soft Matter</i> , 2014, 10, 1555.	1.2	98
9	Creep and Fracture of a Protein Gel under Stress. <i>Physical Review Letters</i> , 2014, 113, 038303.	2.9	88
10	Yielding dynamics of a Herschel-Bulkley fluid: a critical-like fluidization behaviour. <i>Soft Matter</i> , 2012, 8, 4151.	1.2	68
11	Shear-banding in surfactant wormlike micelles: elastic instabilities and wall slip. <i>Soft Matter</i> , 2012, 8, 2535.	1.2	56
12	Simultaneous Rheoelectric Measurements of Strongly Conductive Complex Fluids. <i>Physical Review Applied</i> , 2016, 6, .	1.5	56
13	Normal force controlled rheology applied to agar gelation. <i>Journal of Rheology</i> , 2016, 60, 473-489.	1.3	55
14	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
15	Creep Motion of a Granular Pile Induced by Thermal Cycling. <i>Physical Review Letters</i> , 2008, 101, 148303.	2.9	51
16	Turbulent drag reduction by surfactants. <i>Europhysics Letters</i> , 2006, 74, 362-368.	0.7	47
17	Interplay between elastic instabilities and shear-banding: three categories of Taylor-Couette flows and beyond. <i>Soft Matter</i> , 2012, 8, 10072.	1.2	47
18	Understanding rheological hysteresis in soft glassy materials. <i>Soft Matter</i> , 2017, 13, 1834-1852.	1.2	46

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19	Avalanche-like fluidization of a non-Brownian particle gel. <i>Soft Matter</i> , 2015, 11, 9026-9037.	1.2	41
20	Nonlinear Viscoelasticity and Generalized Failure Criterion for Polymer Gels. <i>ACS Macro Letters</i> , 2017, 6, 663-667.	2.3	40
21	Turbulent flows in highly elastic wormlike micelles. <i>Soft Matter</i> , 2013, 9, 735-749.	1.2	36
22	Syneresis and delayed detachment in agar plates. <i>Soft Matter</i> , 2015, 11, 3677-3685.	1.2	31
23	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
24	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
25	Acoustic signal associated with the bursting of a soap film which initially closes an overpressurized cavity. <i>European Physical Journal B</i> , 2006, 54, 321-339.	0.6	25
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	Intermittent outgassing through a non-Newtonian fluid. <i>Physical Review E</i> , 2009, 79, 056204.	0.8	24
28	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
29	Nacre toughening due to cooperative plastic deformation of stacks of co-oriented aragonite platelets. <i>Communications Materials</i> , 2020, 1, .	2.9	24
30	Wall slip across the jamming transition of soft thermoresponsive particles. <i>Physical Review E</i> , 2015, 92, 060301.	0.8	23
31	Friction and Dilatancy in Immersed Granular Matter. <i>Physical Review Letters</i> , 2007, 99, 258301.	2.9	22
32	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
33	Time-Resolved Mechanical Spectroscopy of Soft Materials via Optimally Windowed Chirps. <i>Physical Review X</i> , 2018, 8, .	2.8	21
34	Dynamics of soap bubble bursting and its implications to volcano acoustics. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	20
35	Stress Overshoots in Simple Yield Stress Fluids. <i>Physical Review Letters</i> , 2021, 127, 148003.	2.9	20
36	Acoustic emission associated with the bursting of a gas bubble at the free surface of a non-Newtonian fluid. <i>Physical Review E</i> , 2008, 77, 056310.	0.8	19

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37	Unified Theoretical and Experimental View on Transient Shear Banding. <i>Physical Review Letters</i> , 2019, 123, 248001.	2.9	18
38	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
39	Creep in reactive colloidal gels: A nanomechanical study of cement hydrates. <i>Physical Review Research</i> , 2021, 3, .	1.3	14
40	Insights on the local dynamics induced by thermal cycling in granular matter. <i>Europhysics Letters</i> , 2013, 104, 24001.	0.7	12
41	Shear melting and recovery of crosslinkable cellulose nanocrystal-polymer gels. <i>Soft Matter</i> , 2019, 15, 4401-4412.	1.2	12
42	Influence of non-Newtonian rheology on magma degassing. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	11
43	Shear-induced memory effects in boehmite gels. <i>Journal of Rheology</i> , 2022, 66, 91-104.	1.3	11
44	Chemo-mechanical characterization of hydrated calcium-hydrosilicates with coupled Raman- and nanoindentation measurements. <i>Applied Geochemistry</i> , 2020, 118, 104582.	1.4	10
45	Invited review: Effect of temperature on a granular pile. <i>Papers in Physics</i> , 0, 2, 020006.	0.2	9
46	Continuum modeling of shear startup in soft glassy materials. <i>Physical Review E</i> , 2021, 104, 034612.	0.8	8
47	Criterion for Fingering Instabilities in Colloidal Gels. <i>Physical Review Letters</i> , 2020, 124, 248006.	2.9	7
48	Residual stresses and shear-induced overaging in boehmite gels. <i>Physical Review Materials</i> , 2022, 6, .	0.9	7
49	Degassing cascades in a shear-thinning viscoelastic fluid. <i>Physical Review E</i> , 2011, 84, 066302.	0.8	6
50	A fluoros sodium $\gamma$ -prolinate derivative as low molecular weight gelator for perfluorocarbons. <i>Chemical Communications</i> , 2020, 56, 8655-8658.	2.2	5
51	Slow dynamics and time-composition superposition in gels of cellulose nanocrystals. <i>Journal of Chemical Physics</i> , 0, , .	1.2	5
52	Printable, castable, nanocrystalline cellulose-epoxy composites exhibiting hierarchical nacre-like toughening. <i>Cellulose</i> , 2022, 29, 2387-2398.	2.4	4
53	Aging of a granular pile induced by thermal cycling. , 2009, , .		3
54	Time-resolved rheometry of drying liquids and suspensions. <i>Journal of Rheology</i> , 2021, 65, 427-436.	1.3	2

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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