Wouter G Ellenbroek

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6862965/publications.pdf

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30 papers	1,599 citations	393982 19 h-index	454577 30 g-index
31 all docs	31 docs citations	31 times ranked	1715 citing authors

#	Article	IF	Citations
1	Spotted vesicles, striped micelles and Janus assemblies induced by ligand binding. Nature Materials, 2009, 8, 843-849.	13.3	283
2	Critical Scaling in Linear Response of Frictionless Granular Packings near Jamming. Physical Review Letters, 2006, 97, 258001.	2.9	180
3	Low-Frequency Vibrations of Soft Colloidal Glasses. Physical Review Letters, 2010, 105, 025501.	2.9	147
4	Critical and noncritical jamming of frictional grains. Physical Review E, 2007, 75, 020301.	0.8	126
5	Non-affine response: Jammed packings vs. spring networks. Europhysics Letters, 2009, 87, 34004.	0.7	104
6	Measurement of Correlations between Low-Frequency Vibrational Modes and Particle Rearrangements in Quasi-Two-Dimensional Colloidal Glasses. Physical Review Letters, 2011, 107, 108301.	2.9	98
7	Jammed frictionless disks: Connecting local and global response. Physical Review E, 2009, 80, 061307.	0.8	81
8	Divalent Cation-Dependent Formation of Electrostatic PIP2 Clusters in Lipid Monolayers. Biophysical Journal, 2011, 101, 2178-2184.	0.2	75
9	Dynamics of Vitrimers: Defects as a Highway to Stress Relaxation. Physical Review Letters, 2018, 121, 058003.	2.9	67
10	Rigidity Loss in Disordered Systems: Three Scenarios. Physical Review Letters, 2015, 114, 135501.	2.9	60
11	Tail of the contact force distribution in static granular materials. Physical Review E, 2007, 75, 060302.	0.8	55
12	Ensemble theory for force networks in hyperstatic granular matter. Physical Review E, 2004, 70, 061306.	0.8	45
13	Stability of jammed packings I: the rigidity length scale. Soft Matter, 2013, 9, 10993.	1.2	37
14	Geometry and the onset of rigidity in a disordered network. Physical Review E, 2017, 96, 053003.	0.8	34
15	Sheared Force Networks: Anisotropies, Yielding, and Geometry. Physical Review Letters, 2006, 96, 098001.	2.9	30
16	Centrifugal compression of soft particle packings: Theory and experiment. Physical Review E, 2010, 82, 041403.	0.8	27
17	Rigidity percolation on the square lattice. Europhysics Letters, 2011, 96, 54002.	0.7	27
18	Rotational and translational phonon modes in glasses composed of ellipsoidal particles. Physical Review E, 2011, 83, 011403.	0.8	26

#	Article	IF	Citations
19	Harnessing entropy to enhance toughness in reversibly crosslinked polymer networks. Soft Matter, 2019, 15, 2190-2203.	1.2	23
20	Mechanical properties of single supramolecular polymers from correlative AFM and fluorescence microscopy. Polymer Chemistry, 2016, 7, 7260-7268.	1.9	19
21	Swap-Driven Self-Adhesion and Healing of Vitrimers. Coatings, 2019, 9, 114.	1.2	13
22	Two-dimensional crystals of star polymers: a tale of tails. Soft Matter, 2019, 15, 615-622.	1.2	9
23	How accurately do mechanophores report on bond scission in soft polymer materials?. Journal of Polymer Science, 2021, 59, 1188-1199.	2.0	8
24	Mechanics from Calorimetry: Probing the Elasticity of Responsive Hydrogels. Physical Review Applied, 2017, 8, .	1.5	7
25	Self-Consistent Field Lattice Model for Polymer Networks. Macromolecules, 2017, 50, 9788-9795.	2.2	7
26	Bounds on the shear load of cohesionless granular matter. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P01023-P01023.	0.9	3
27	Rheology, Rupture, Reinforcement and Reversibility: Computational Approaches for Dynamic Network Materials. Advances in Polymer Science, 2020, , 63-126.	0.4	3
28	Self-stresses control stiffness and stability in overconstrained disordered networks. Physical Review E, 2019, 99, 023001.	0.8	2
29	Stress relaxation in tunable gels. Soft Matter, 2021, 17, 10254-10262.	1.2	1
30	Associative bond swaps in molecular dynamics. SciPost Physics, 2022, 12, .	1.5	1