

Wouter G Ellenbroek

List of Publications by Year in descending order

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

Version: 2024-02-01

30
papers

1,599
citations

394286

19
h-index

454834

30
g-index

31
all docs

31
docs citations

31
times ranked

1715
citing authors

#	ARTICLE	IF	CITATIONS
1	Associative bond swaps in molecular dynamics. <i>SciPost Physics</i> , 2022, 12, .	1.5	1
2	Stress relaxation in tunable gels. <i>Soft Matter</i> , 2021, 17, 10254-10262.	1.2	1
3	How accurately do mechanophores report on bond scission in soft polymer materials?. <i>Journal of Polymer Science</i> , 2021, 59, 1188-1199.	2.0	8
4	Rheology, Rupture, Reinforcement and Reversibility: Computational Approaches for Dynamic Network Materials. <i>Advances in Polymer Science</i> , 2020, , 63-126.	0.4	3
5	Harnessing entropy to enhance toughness in reversibly crosslinked polymer networks. <i>Soft Matter</i> , 2019, 15, 2190-2203.	1.2	23
6	Two-dimensional crystals of star polymers: a tale of tails. <i>Soft Matter</i> , 2019, 15, 615-622.	1.2	9
7	Swap-Driven Self-Adhesion and Healing of Vitrimers. <i>Coatings</i> , 2019, 9, 114.	1.2	13
8	Self-stresses control stiffness and stability in overconstrained disordered networks. <i>Physical Review E</i> , 2019, 99, 023001.	0.8	2
9	Dynamics of Vitrimers: Defects as a Highway to Stress Relaxation. <i>Physical Review Letters</i> , 2018, 121, 058003.	2.9	67
10	Mechanics from Calorimetry: Probing the Elasticity of Responsive Hydrogels. <i>Physical Review Applied</i> , 2017, 8, .	1.5	7
11	Geometry and the onset of rigidity in a disordered network. <i>Physical Review E</i> , 2017, 96, 053003.	0.8	34
12	Self-Consistent Field Lattice Model for Polymer Networks. <i>Macromolecules</i> , 2017, 50, 9788-9795.	2.2	7
13	Mechanical properties of single supramolecular polymers from correlative AFM and fluorescence microscopy. <i>Polymer Chemistry</i> , 2016, 7, 7260-7268.	1.9	19
14	Rigidity Loss in Disordered Systems: Three Scenarios. <i>Physical Review Letters</i> , 2015, 114, 135501.	2.9	60
15	Stability of jammed packings I: the rigidity length scale. <i>Soft Matter</i> , 2013, 9, 10993.	1.2	37
16	Rigidity percolation on the square lattice. <i>Europhysics Letters</i> , 2011, 96, 54002.	0.7	27
17	Divalent Cation-Dependent Formation of Electrostatic PIP2 Clusters in Lipid Monolayers. <i>Biophysical Journal</i> , 2011, 101, 2178-2184.	0.2	75
18	Measurement of Correlations between Low-Frequency Vibrational Modes and Particle Rearrangements in Quasi-Two-Dimensional Colloidal Glasses. <i>Physical Review Letters</i> , 2011, 107, 108301.	2.9	98

#	ARTICLE	IF	CITATIONS
19	Rotational and translational phonon modes in glasses composed of ellipsoidal particles. <i>Physical Review E</i> , 2011, 83, 011403.	0.8	26
20	Low-Frequency Vibrations of Soft Colloidal Glasses. <i>Physical Review Letters</i> , 2010, 105, 025501.	2.9	147
21	Centrifugal compression of soft particle packings: Theory and experiment. <i>Physical Review E</i> , 2010, 82, 041403.	0.8	27
22	Non-affine response: Jammed packings vs. spring networks. <i>Europhysics Letters</i> , 2009, 87, 34004.	0.7	104
23	Spotted vesicles, striped micelles and Janus assemblies induced by ligand binding. <i>Nature Materials</i> , 2009, 8, 843-849.	13.3	283
24	Jammed frictionless disks: Connecting local and global response. <i>Physical Review E</i> , 2009, 80, 061307.	0.8	81
25	Bounds on the shear load of cohesionless granular matter. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P01023-P01023.	0.9	3
26	Tail of the contact force distribution in static granular materials. <i>Physical Review E</i> , 2007, 75, 060302.	0.8	55
27	Critical and noncritical jamming of frictional grains. <i>Physical Review E</i> , 2007, 75, 020301.	0.8	126
28	Critical Scaling in Linear Response of Frictionless Granular Packings near Jamming. <i>Physical Review Letters</i> , 2006, 97, 258001.	2.9	180
29	Sheared Force Networks: Anisotropies, Yielding, and Geometry. <i>Physical Review Letters</i> , 2006, 96, 098001.	2.9	30
30	Ensemble theory for force networks in hyperstatic granular matter. <i>Physical Review E</i> , 2004, 70, 061306.	0.8	45