

Corey S O'Hern

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,323
citations

567281

15
h-index

361022

35
g-index

38
all docs

38
docs citations

38
times ranked

1918
citing authors

#	ARTICLE	IF	CITATIONS
1	The Bacterial Cytoplasm Has Glass-like Properties and Is Fluidized by Metabolic Activity. <i>Cell</i> , 2014, 156, 183-194.	28.9	643
2	Mechanical glass transition revealed by the fracture toughness of metallic glasses. <i>Nature Communications</i> , 2018, 9, 3271.	12.8	103
3	Jamming of Deformable Polygons. <i>Physical Review Letters</i> , 2018, 121, 248003.	7.8	81
4	Isostaticity at Frictional Jamming. <i>Physical Review Letters</i> , 2013, 110, 198002.	7.8	63
5	Which Biomarkers Reveal Neonatal Sepsis?. <i>PLoS ONE</i> , 2013, 8, e82700.	2.5	33
6	The role of deformability in determining the structural and mechanical properties of bubbles and emulsions. <i>Soft Matter</i> , 2019, 15, 5854-5865.	2.7	30
7	Supercluster-coupled crystal growth in metallic glass forming liquids. <i>Nature Communications</i> , 2019, 10, 915.	12.8	30
8	Computational studies of the glass-forming ability of model bulk metallic glasses. <i>Journal of Chemical Physics</i> , 2013, 139, 124503.	3.0	29
9	On the origin of multi-component bulk metallic glasses: Atomic size mismatches and de-mixing. <i>Journal of Chemical Physics</i> , 2015, 143, 054501.	3.0	25
10	Pressure Dependent Shear Response of Jammed Packings of Frictionless Spherical Particles. <i>Physical Review Letters</i> , 2020, 124, 038004.	7.8	20
11	Intrinsic α -helical and β -sheet conformational preferences: A computational case study of alanine. <i>Protein Science</i> , 2014, 23, 970-980.	7.6	18
12	Beyond packing of hard spheres: The effects of core softness, non-additivity, intermediate-range repulsion, and many-body interactions on the glass-forming ability of bulk metallic glasses. <i>Journal of Chemical Physics</i> , 2015, 143, 184502.	3.0	18
13	Vibrations of jammed disk packings with Hertzian interactions. <i>Granular Matter</i> , 2014, 16, 209-216.	2.2	17
14	Bridging particle deformability and collective response in soft solids. <i>Physical Review Materials</i> , 2021, 5, .	2.4	17
15	Angiopoietin-1, Angiopoietin-2 and Bicarbonate as Diagnostic Biomarkers in Children with Severe Sepsis. <i>PLoS ONE</i> , 2014, 9, e108461.	2.5	17
16	Iterative feature removal yields highly discriminative pathways. <i>BMC Genomics</i> , 2013, 14, 832.	2.8	16
17	The glass-forming ability of model metal-metalloid alloys. <i>Journal of Chemical Physics</i> , 2015, 142, 104504.	3.0	15
18	Jammed packings of 3D superellipsoids with tunable packing fraction, coordination number, and ordering. <i>Soft Matter</i> , 2019, 15, 9751-9761.	2.7	15

#	ARTICLE	IF	CITATIONS
19	The structural, vibrational, and mechanical properties of jammed packings of deformable particles in three dimensions. <i>Soft Matter</i> , 2021, 17, 9901-9915.	2.7	14
20	New Insights into the Interdependence between Amino Acid Stereochemistry and Protein Structure. <i>Biophysical Journal</i> , 2013, 105, 2403-2411.	0.5	13
21	Analyses of protein cores reveal fundamental differences between solution and crystal structures. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1154-1161.	2.6	13
22	Anomaly Detection in Host Signaling Pathways for the Early Prognosis of Acute Infection. <i>PLoS ONE</i> , 2016, 11, e0160919.	2.5	13
23	Contact network changes in ordered and disordered disk packings. <i>Soft Matter</i> , 2020, 16, 9443-9455.	2.7	11
24	Shear response of granular packings compressed above jamming onset. <i>Physical Review E</i> , 2021, 103, 022902.	2.1	10
25	Outcome Prediction in Mathematical Models of Immune Response to Infection. <i>PLoS ONE</i> , 2015, 10, e0135861.	2.5	9
26	Molecular simulations of the fluctuating conformational dynamics of intrinsically disordered proteins. <i>Physical Review E</i> , 2012, 86, 041910.	2.1	8
27	Comparison of shear and compression jammed packings of frictional disks. <i>Granular Matter</i> , 2019, 21, 1.	2.2	8
28	Intrinsic dissipation mechanisms in metallic glass resonators. <i>Journal of Chemical Physics</i> , 2019, 151, 144506.	3.0	7
29	Homogeneous Crystallization in Cyclically Sheared Frictionless Grains. <i>Physical Review Letters</i> , 2020, 125, 258003.	7.8	6
30	Using delaunay triangularization to characterize non-affine displacement fields during athermal, quasistatic deformation of amorphous solids. <i>Soft Matter</i> , 2021, 17, 8612-8623.	2.7	5
31	Static-state particle fabrication via rapid vitrification of a thixotropic medium. <i>Nature Communications</i> , 2021, 12, 3768.	12.8	4
32	Highly evolved grains. <i>Nature Materials</i> , 2013, 12, 287-288.	27.5	3
33	Glass-forming ability of binary Lennard-Jones systems. <i>Physical Review Materials</i> , 2022, 6, .	2.4	3
34	Cover Image, Volume 88, Issue 9. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, C1.	2.6	2
35	Mechanical response of packings of nonspherical particles: A case study of two-dimensional packings of circulo-lines. <i>Physical Review E</i> , 2021, 104, 014901.	2.1	2
36	Stable small bubble clusters in two-dimensional foams. <i>Soft Matter</i> , 2017, 13, 4370-4380.	2.7	1

#	ARTICLE	IF	CITATIONS
37	Flows and patterns: The physics of fluids, granular materials, and soft matter. Granular Matter, 2014, 16, 163-164.	2.2	0