

Peter J Yunker

List of Publications by Year in descending order

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48
papers

3,674
citations

331670

21
h-index

223800

46
g-index

56
all docs

56
docs citations

56
times ranked

4586
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular organization in lab-evolved and extant multicellular species obeys a maximum entropy law. <i>ELife</i> , 2022, 11, .	6.0	20
2	Reshaping sub-millimetre bubbles from spheres to tori. <i>Soft Matter</i> , 2022, 18, 4660-4666.	2.7	1
3	Evolution of a <i>cis</i> -Acting SNP That Controls Type VI Secretion in <i>Vibrio cholerae</i> . <i>MBio</i> , 2022, 13, .	4.1	3
4	Varied solutions to multicellularity: The biophysical and evolutionary consequences of diverse intercellular bonds. <i>Biophysics Reviews</i> , 2022, 3, .	2.7	11
5	Glucose confers protection to <i>Escherichia coli</i> against contact-killing by <i>Vibrio cholerae</i> . <i>Scientific Reports</i> , 2021, 11, 2935.	3.3	19
6	A New Contact Killing Toxin Permeabilizes Cells and Belongs to a Broadly Distributed Protein Family. <i>MSphere</i> , 2021, 6, e0031821.	2.9	5
7	Biomechanics of pollen pellet removal by the honey bee. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210549.	3.4	3
8	Matrices (re)loaded: Durability, viability, and fermentative capacity of yeast encapsulated in beads of different composition during long-term fed-batch culture. <i>Biotechnology Progress</i> , 2020, 36, e2925.	2.6	5
9	Ecological Advantages and Evolutionary Limitations of Aggregative Multicellular Development. <i>Current Biology</i> , 2020, 30, 4155-4164.e6.	3.9	31
10	Accumulation of dead cells from contact killing facilitates coexistence in bacterial biofilms. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200486.	3.4	17
11	Topological constraints in early multicellularity favor reproductive division of labor. <i>ELife</i> , 2020, 9, .	6.0	34
12	Black Soldier Fly Larvae Rearrange under Compression. <i>Integrative and Comparative Biology</i> , 2019, 59, 1646-1652.	2.0	4
13	Analysis of <i>Vibrio cholerae</i> genomes identifies new type VI secretion system gene clusters. <i>Genome Biology</i> , 2019, 20, 163.	8.8	45
14	Cyberphysical risks of hacked internet-connected vehicles. <i>Physical Review E</i> , 2019, 100, 012316.	2.1	23
15	Structural hierarchy confers error tolerance in biological materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2875-2880.	7.1	19
16	Drivers of Spatial Structure in Social Microbial Communities. <i>Current Biology</i> , 2019, 29, R545-R550.	3.9	56
17	Interaction anisotropy and the KPZ to KPZQ transition in particle deposition at the edges of drying drops. <i>Soft Matter</i> , 2018, 14, 1903-1907.	2.7	10
18	Immotile Active Matter: Activity from Death and Reproduction. <i>Physical Review Letters</i> , 2018, 120, 018101.	7.8	14

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19	Geometry, packing, and evolutionary paths to increased multicellular size. <i>Physical Review E</i> , 2018, 97, 050401.	2.1	14
20	Transport and trapping of nanosheets via hydrodynamic forces and curvature-induced capillary quadrupolar interactions. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 352-359.	9.4	3
21	Cellular packing, mechanical stress and the evolution of multicellularity. <i>Nature Physics</i> , 2018, 14, 286-290.	16.7	48
22	Killing by Type VI secretion drives genetic phase separation and correlates with increased cooperation. <i>Nature Communications</i> , 2017, 8, 14371.	12.8	143
23	Record dynamics: Direct experimental evidence from jammed colloids. <i>Europhysics Letters</i> , 2016, 116, 38003.	2.0	18
24	Domed Silica Microcylinders Coated with Oleophilic Polypeptides and Their Behavior in Lyotropic Cholesteric Liquid Crystals of the Same Polypeptide. <i>Langmuir</i> , 2016, 32, 13137-13148.	3.5	11
25	One-pot system for synthesis, assembly, and display of functional single-span membrane proteins on oil-water interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 608-613.	7.1	8
26	Temperature-sensitive Hydrogel Particle Films from Evaporating Drops. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500371.	3.7	20
27	Measuring the Nonuniform Evaporation Dynamics of Sprayed Sessile Microdroplets with Quantitative Phase Imaging. <i>Langmuir</i> , 2015, 31, 11020-11032.	3.5	20
28	Diffraction phase microscopy: monitoring nanoscale dynamics in materials science [Invited]. <i>Applied Optics</i> , 2014, 53, G33.	1.8	46
29	Characterizing microdroplet evaporation using diffraction phase microscopy. , 2014, , .		0
30	Phonon dispersion and elastic moduli of two-dimensional disordered colloidal packings of soft particles with frictional interactions. <i>Physical Review E</i> , 2014, 89, 012301.	2.1	23
31	Physics in ordered and disordered colloidal matter composed of poly(<i>N</i> -isopropylacrylamide) microgel particles. <i>Reports on Progress in Physics</i> , 2014, 77, 056601.	20.1	123
32	Coffee rings and coffee disks: Physics on the edge. <i>Physics Today</i> , 2013, 66, 60-61.	0.3	15
33	Effects of Particle Shape on Growth Dynamics at Edges of Evaporating Drops of Colloidal Suspensions. <i>Physical Review Letters</i> , 2013, 110, 035501.	7.8	127
34	Relationship between neighbor number and vibrational spectra in disordered colloidal clusters with attractive interactions. <i>Journal of Chemical Physics</i> , 2013, 138, 12A525.	3.0	6
35	Phonons in two-dimensional colloidal crystals with bond-strength disorder. <i>Physical Review E</i> , 2013, 87, 052301.	2.1	15
36	Yunker et al. Reply. <i>Physical Review Letters</i> , 2013, 111, 209602.	7.8	12

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37	Influence of Particle Shape on Bending Rigidity of Colloidal Monolayer Membranes and Particle Deposition during Droplet Evaporation in Confined Geometries. <i>Physical Review Letters</i> , 2012, 108, 228303.	7.8	31
38	Surfactant-Induced Marangoni Eddies Alter the Coffee-Rings of Evaporating Colloidal Drops. <i>Langmuir</i> , 2012, 28, 4984-4988.	3.5	369
39	Suppression of the coffee-ring effect by shape-dependent capillary interactions. <i>Nature</i> , 2011, 476, 308-311.	27.8	1,288
40	Cooperative Rearrangement Regions and Dynamical Heterogeneities in Colloidal Glasses with Attractive Versus Repulsive Interactions. <i>Physical Review Letters</i> , 2011, 107, 208303.	7.8	114
41	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.	7.8	98
42	Phonon Spectra, Nearest Neighbors, and Mechanical Stability of Disordered Colloidal Clusters with Attractive Interactions. <i>Physical Review Letters</i> , 2011, 106, 225503.	7.8	18
43	Rotational and translational phonon modes in glasses composed of ellipsoidal particles. <i>Physical Review E</i> , 2011, 83, 011403.	2.1	26
44	Observation of the Disorder-Induced Crystal-to-Glass Transition. <i>Physical Review Letters</i> , 2010, 104, 015701.	7.8	69
45	Low-Frequency Vibrations of Soft Colloidal Glasses. <i>Physical Review Letters</i> , 2010, 105, 025501.	7.8	147
46	Irreversible Rearrangements, Correlated Domains, and Local Structure in Aging Glasses. <i>Physical Review Letters</i> , 2009, 103, 115701.	7.8	90
47	Thermal vestige of the zero-temperature jamming transition. <i>Nature</i> , 2009, 459, 230-233.	27.8	232
48	Geometric frustration in buckled colloidal monolayers. <i>Nature</i> , 2008, 456, 898-903.	27.8	199