Carl P Goodrich

List of Publications by Year
in descending order

27	1,140	394421	526287
papers	citations	19 h-index	27 g-index

28	28	28	1103
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Designing self-assembling kinetics with differentiable statistical physics models. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	26
2	Microscopic origins of the crystallographically preferred growth in evaporation-induced colloidal crystals. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
3	Self-assemblyâ€“based posttranslational protein oscillators. Science Advances, 2020, 6, .	10.3	2
4	Enhanced diffusion by binding to the crosslinks of a polymer gel. Nature Communications, 2018, 9, 4348.	12.8	45
5	Reply to the â€˜Comment on â€œSpatial structure of states of self stress in jammed systemsâ€â€™ by E. Lerner, Soft Matter, 2017,13, DOI: 10.1039/c6sm01111j. Soft Matter, 2017, 13, 1532-1533.	2.7	1
6	Designing allostery-inspired response in mechanical networks. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2520-2525.	7.1	130
7	Deformation of Crystals: Connections with Statistical Physics. Annual Review of Materials Research, 2017, 47, 217-246.	9.3	61
8	Using active colloids as machines to weave and braid on the micrometer scale. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 257-262.	7.1	19
9	Emergent SO(3) Symmetry of the Frictionless Shear Jamming Transition. Journal of Statistical Physics, 2017, 167, 735-748.	1.2	49
10	Scaling ansatz for the jamming transition. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9745-9750.	7.1	67
11	Spatial structure of states of self stress in jammed systems. Soft Matter, 2016, 12, 3982-3990.	2.7	19
12	Pinning Susceptibility: The Effect of Dilute, Quenched Disorder on Jamming. Physical Review Letters, 2016, 116, 235501.	7.8	20
13	Divergence of Voronoi Cell Anisotropy Vector: A Threshold-Free Characterization of Local Structure in Amorphous Materials. Physical Review Letters, 2016, 116, 088001.	7.8	35
14	Higher-order wavelet reconstruction/differentiation filters and Gibbs phenomena. Journal of Computational Physics, 2016, 305, 244-262.	3.8	4
15	The Principle of Independent Bond-Level Response: Tuning by Pruning to Exploit Disorder for Global Behavior. Physical Review Letters, 2015, 114, 225501.	7.8	76
16	Disordered surface vibrations in jammed sphere packings. Soft Matter, 2015, 11, 2745-2751.	2.7	7
17	Collective dynamics of soft active particles. Physical Review E, 2015, 91, 032706.	2.1	23
18	Vibrational and structural signatures of the crossover between dense glassy and sparse gel-like attractive colloidal packings. Physical Review E, 2014, 90, 062305.	2.1	12

#	Article	IF	Citations
19	Phonon dispersion and elastic moduli of two-dimensional disordered colloidal packings of soft particles with frictional interactions. Physical Review E, 2014, 89, 012301.	2.1	23
20	Contact nonlinearities and linear response in jammed particulate packings. Physical Review E, 2014, 90, 022201.	2.1	15
21	Comment on â€œRepulsive Contact Interactions Make Jammed Particulate Systems Inherently Nonharmonicâ€. Physical Review Letters, 2014, 112, 049801.	7.8	9
22	Jamming in finite systems: Stability, anisotropy, fluctuations, and scaling. Physical Review E, 2014, 90, 022138.	2.1	85
23	Solids between the mechanical extremes of order and disorder. Nature Physics, 2014, 10, 578-581.	16.7	86
24	Stability of jammed packings I: the rigidity length scale. Soft Matter, 2013, 9, 10993.	2.7	37
25	Stability of jammed packings II: the transverse length scale. Soft Matter, 2013, 9, 11000.	2.7	26
26	Finite-Size Scaling at the Jamming Transition. Physical Review Letters, 2012, 109, 095704.	7.8	164
27	Single-Molecule Electrophoresis of Î²-Hairpin Peptides by Electrical Recordings and Langevin Dynamics Simulations. Journal of Physical Chemistry B, 2007, 111, 3332-3335.	2.6	82