

Xinsheng Sean Ling

List of Publications by Year in descending order

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18
papers

2,955
citations

933447

10
h-index

996975

15
g-index

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18
docs citations

18
times ranked

3355
citing authors

#	ARTICLE	IF	CITATIONS
1	2D isotropic-nematic transition in colloidal suspensions of ellipsoids. <i>Soft Matter</i> , 2021, 17, 6001-6005.	2.7	9
2	2D Colloidal Crystals with Anisotropic Impurities. <i>Physical Review Letters</i> , 2021, 127, 018004.	7.8	10
3	DNA sequencing using nanopores and kinetic proofreading. <i>Quantitative Biology</i> , 2020, 8, 187-194.	0.5	0
4	Dynamical processes of interstitial diffusion in a two-dimensional colloidal crystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13220-13226.	7.1	4
5	Nature of the glass transition in 2D colloidal suspensions of short rods. <i>New Journal of Physics</i> , 2020, 22, 103066.	2.9	9
6	Rapid fabrication of solid-state nanopores with high reproducibility over a large area using a helium ion microscope. <i>Nanoscale</i> , 2018, 10, 5198-5204.	5.6	26
7	Three-dimensional spatially resolved neutron diffraction from a disordered vortex lattice. <i>Journal of Applied Crystallography</i> , 2011, 44, 414-417.	4.5	0
8	Detection of DNA hybridizations using solid-state nanopores. <i>Nanotechnology</i> , 2010, 21, 335102.	2.6	31
9	Reverse DNA translocation through a solid-state nanopore by magnetic tweezers. <i>Nanotechnology</i> , 2009, 20, 185101.	2.6	107
10	The potential and challenges of nanopore sequencing. , 2009, , 261-268.		23
11	The potential and challenges of nanopore sequencing. <i>Nature Biotechnology</i> , 2008, 26, 1146-1153.	17.5	2,201
12	Statics and Dynamics of 2D Colloidal Crystals in a Random Pinning Potential. <i>Physical Review Letters</i> , 2008, 100, 028303.	7.8	103
13	Ewald construction and resolution function for rocking-curve small-angle neutron scattering experiments. <i>Journal of Applied Crystallography</i> , 2007, 40, 959-963.	4.5	1
14	Lithography-Free Formation of Nanopores in Plastic Membranes Using Laser Heating. <i>Nano Letters</i> , 2006, 6, 2571-2576.	9.1	74
15	Video microscopy and micromechanics studies of one- and two-dimensional colloidal crystals. <i>New Journal of Physics</i> , 2005, 7, 33-33.	2.9	44
16	Scars on a colloidal crystal ball. <i>Nature Materials</i> , 2005, 4, 360-361.	27.5	11
17	Peak effect in superconductors: melting of Larkin domains. <i>Europhysics Letters</i> , 1996, 35, 597-602.	2.0	42
18	Superconducting Vortex Avalanches. <i>Physical Review Letters</i> , 1995, 74, 1206-1209.	7.8	260