

Alexander Levine

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,349
citations

567281

15
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

1683
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of curvature on the propagation of undulatory waves in lower dimensional elastic materials. <i>Physical Review E</i> , 2021, 103, 013002.	2.1	5
2	Directed force propagation in semiflexible networks. <i>Soft Matter</i> , 2021, 17, 10223-10241.	2.7	4
3	Actively Driven Fluctuations in a Fibrin Network. <i>Frontiers in Physics</i> , 2021, 8, .	2.1	4
4	Topological defects produce kinks in biopolymer filament bundles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	6
5	Geometrically induced localization of flexural waves on thin warped physical membranes. <i>Physical Review E</i> , 2021, 103, 053002.	2.1	0
6	Violation of generalized fluctuation-dissipation theorem in biological limit cycle oscillators with state-dependent internal drives: Applications to hair cell oscillations. <i>Physical Review Research</i> , 2021, 3, .	3.6	2
7	Braiding Dynamics in Semiflexible Filament Bundles under Oscillatory Forcing. <i>Polymers</i> , 2021, 13, 2195.	4.5	0
8	Cell contact guidance via sensing anisotropy of network mechanical resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	28
9	Defect Production in Compressed Filament Bundles. <i>Physical Review Letters</i> , 2021, 127, 157801.	7.8	1
10	Dynamics of undulatory fluctuations of semiflexible filaments in a network. <i>Physical Review E</i> , 2020, 102, 062406.	2.1	2
11	Dynamical phase separation on rhythmogenic neuronal networks. <i>Physical Review E</i> , 2020, 101, 062307.	2.1	5
12	Equilibrium fluctuations of a semiflexible filament cross linked into a network. <i>Physical Review E</i> , 2020, 101, 012408.	2.1	2
13	Simultaneous cell traction and growth measurements using light. <i>Journal of Biophotonics</i> , 2019, 12, e201800182.	2.3	14
14	Noise-induced distortion of the mean limit cycle of nonlinear oscillators. <i>Physical Review E</i> , 2019, 99, 062124.	2.1	3
15	Conformation of a semiflexible filament in a quenched random potential. <i>Physical Review E</i> , 2019, 99, 042501.	2.1	4
16	Mechanical hysteresis in actin networks. <i>Soft Matter</i> , 2018, 14, 2052-2058.	2.7	32
17	Membrane insertion of Ca^{2+} and membrane potential sensing by Ca^{2+} semiconductor voltage nanosensors: Feasibility demonstration. <i>Science Advances</i> , 2018, 4, e1601453.	10.3	33
18	Nonequilibrium limit-cycle oscillators: Fluctuations in hair bundle dynamics. <i>Physical Review E</i> , 2018, 97, 062411.	2.1	7

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19	Geometric localization of thermal fluctuations in red blood cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2865-2870.	7.1	26
20	Calculating the mean time to capture for tethered ligands and its effect on the chemical equilibrium of bound ligand pairs. Data in Brief, 2016, 8, 506-515.	1.0	0
21	Discontinuous bundling transition in semiflexible polymer networks induced by Casimir interactions. Physical Review E, 2016, 94, 032505.	2.1	7
22	Bubble-raft collapse and the nonequilibrium dynamics of two-state elastica. Physical Review E, 2016, 93, 032613.	2.1	0
23	Fibroblast growth factor 2 dimer with superagonist in vitro activity improves granulation tissue formation during wound healing. Biomaterials, 2016, 81, 157-168.	11.4	59
24	Bond breaking dynamics in semiflexible networks under load. Soft Matter, 2015, 11, 4899-4911.	2.7	10
25	Publisher's Note: Rheology of Semiflexible Bundle Networks with Transient Linkers [Phys. Rev. Lett. 112, 238102 (2014)]. Physical Review Letters, 2014, 113, .	7.8	4
26	Probing interfacial dynamics and mechanics using submerged particle microrheology. I. Theory. Physics of Fluids, 2014, 26, .	4.0	14
27	Rheology of Semiflexible Bundle Networks with Transient Linkers. Physical Review Letters, 2014, 112, 238102.	7.8	61
28	Probing interfacial dynamics and mechanics using submerged particle microrheology. II. Experiment. Physics of Fluids, 2014, 26, .	4.0	25
29	Reflection and Refraction of Flexural Waves at Geometric Boundaries. Physical Review Letters, 2013, 111, 038101.	7.8	13
30	Casimir interactions in semiflexible polymers. Physical Review E, 2013, 87, .	2.1	10
31	Shape transitions in soft spheres regulated by elasticity. Physical Review E, 2013, 88, 052404.	2.1	8
32	The mechanics and affine-nonaffine transition in polydisperse semiflexible networks. Soft Matter, 2011, 7, 907-914.	2.7	29
33	Measurement of the nonlinear elasticity of red blood cell membranes. Physical Review E, 2011, 83, 051925.	2.1	74
34	Measurement of red blood cell mechanics during morphological changes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6731-6736.	7.1	381
35	Affine-nonaffine transition in networks of nematically ordered semiflexible polymers. Physical Review E, 2010, 82, 041907.	2.1	24
36	Effective viscosity of a dilute suspension of membrane-bound inclusions. Physics of Fluids, 2009, 21, .	4.0	18

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37	The Mechanics and Fluctuation Spectrum of Active Gels. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3820-3830.	2.6	71
38	Mesoscale structure of diffusion-limited aggregates of colloidal rods and disks. <i>Soft Matter</i> , 2009, 5, 3639.	2.7	26
39	Nanorheology of viscoelastic shells: Applications to viral capsids. <i>Physical Review E</i> , 2008, 77, 031921.	2.1	14
40	Deformation of Cross-Linked Semiflexible Polymer Networks. <i>Physical Review Letters</i> , 2003, 91, 108102.	7.8	322