

Anton Souslov

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,602
citations

430874

18
h-index

414414

32
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35
all docs

35
docs citations

35
times ranked

1555
citing authors

#	ARTICLE	IF	CITATIONS
1	Active elastocapillarity in soft solids with negative surface tension. <i>Science Advances</i> , 2022, 8, eabk3079.	10.3	8
2	Hydrodynamic correlation functions of chiral active fluids. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	4
3	Mechanical Properties of Acoustically Levitated Granular Rafts. <i>Physical Review X</i> , 2022, 12, .	8.9	4
4	Topological active matter. <i>Nature Reviews Physics</i> , 2022, 4, 380-398.	26.6	107
5	Odd living matter defies the golden rule of mechanics. <i>Nature</i> , 2022, 607, 246-247.	27.8	0
6	Soft topological modes protected by symmetry in rigid mechanical metamaterials. <i>Physical Review B</i> , 2021, 103, .	3.2	5
7	Complete absorption of topologically protected waves. <i>Physical Review E</i> , 2021, 104, 014603.	2.1	4
8	Bacterial Filamentation Drives Colony Chirality. <i>MBio</i> , 2021, 12, e0154221.	4.1	1
9	Optimal power and efficiency of odd engines. <i>Physical Review E</i> , 2021, 104, L062602.	2.1	3
10	Anisotropic odd viscosity via a time-modulated drive. <i>Physical Review E</i> , 2020, 101, 052606.	2.1	20
11	Odd elasticity. <i>Nature Physics</i> , 2020, 16, 475-480.	16.7	142
12	Oscillatory chiral flows in confined active fluids with obstacles. <i>Physical Review Research</i> , 2020, 2, .	3.6	26
13	Topological Protection Can Arise from Thermal Fluctuations and Interactions. <i>Physical Review Letters</i> , 2019, 122, 118001.	7.8	9
14	Cluster formation by acoustic forces and active fluctuations in levitated granular matter. <i>Nature Physics</i> , 2019, 15, 460-464.	16.7	55
15	Topological Waves in Fluids with Odd Viscosity. <i>Physical Review Letters</i> , 2019, 122, 128001.	7.8	129
16	Geometry for mechanics. <i>Nature Physics</i> , 2019, 15, 623-624.	16.7	0
17	Anisotropic polymer nanoparticles with controlled dimensions from the morphological transformation of isotropic seeds. <i>Nature Communications</i> , 2019, 10, 5406.	12.8	35
18	Flocking from a quantum analogy: spin-orbit coupling in an active fluid. <i>New Journal of Physics</i> , 2018, 20, 013020.	2.9	9

#	ARTICLE	IF	CITATIONS
19	Localizing softness and stress along loops in 3D topological metamaterials. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 489-494.	7.1	28
20	Extreme thermodynamics with polymer gel tori: Harnessing thermodynamic instabilities to induce large-scale deformations. Physical Review E, 2018, 98, 020501.	2.1	11
21	Coupling the Leidenfrost effect and elastic deformations to power sustained bouncing. Nature Physics, 2017, 13, 1095-1099.	16.7	43
22	Topological sound in active-liquid metamaterials. Nature Physics, 2017, 13, 1091-1094.	16.7	189
23	Odd viscosity in chiral active fluids. Nature Communications, 2017, 8, 1573.	12.8	184
24	Sonic Landau Levels and Synthetic Gauge Fields in Mechanical Metamaterials. Physical Review Letters, 2017, 119, 195502.	7.8	61
25	Emergent tilt order in Dirac polymer liquids. Physical Review E, 2015, 92, 030601.	2.1	2
26	Mechanical instability at finite temperature. Nature Communications, 2015, 6, 5968.	12.8	34
27	Phonons and elasticity in critically coordinated lattices. Reports on Progress in Physics, 2015, 78, 073901.	20.1	173
28	Impact of Single-Particle Compressibility on the Fluid-Solid Phase Transition for Ionic Microgel Suspensions. Physical Review Letters, 2015, 114, 098303.	7.8	49
29	Beads on a string: structure of bound aggregates of globular particles and long polymer chains. Soft Matter, 2015, 11, 8092-8099.	2.7	3
30	Organization of Strongly Interacting Directed Polymer Liquids in the Presence of Stringent Constraints. Physical Review Letters, 2013, 111, 096401.	7.8	2
31	Buckled colloidal monolayers connect geometric frustration in soft and hard matter. Soft Matter, 2013, 9, 6565.	2.7	9
32	Surface phonons, elastic response, and conformal invariance in twisted kagome lattices. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12369-12374.	7.1	154
33	Order by disorder in the antiferromagnetic Ising model on an elastic triangular lattice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11804-11809.	7.1	27
34	Elasticity and Response in Nearly Isostatic Periodic Lattices. Physical Review Letters, 2009, 103, 205503.	7.8	71