

Norbert Stoop

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

708
citations

623734

14
h-index

839539

18
g-index

20
all docs

20
docs citations

20
times ranked

936
citing authors

#	ARTICLE	IF	CITATIONS
1	Curvature-induced symmetry breaking determines elastic surface patterns. <i>Nature Materials</i> , 2015, 14, 337-342.	27.5	192
2	Bimodal rheotactic behavior reflects flagellar beat asymmetry in human sperm cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15904-15909.	7.1	91
3	Actomyosin-based tissue folding requires a multicellular myosin gradient. <i>Development (Cambridge)</i> , 2017, 144, 1876-1886.	2.5	79
4	Curvature-Induced Instabilities of Shells. <i>Physical Review Letters</i> , 2018, 120, 048002.	7.8	53
5	Curvature-Controlled Defect Localization in Elastic Surface Crystals. <i>Physical Review Letters</i> , 2016, 116, 104301.	7.8	43
6	Self-Contact and Instabilities in the Anisotropic Growth of Elastic Membranes. <i>Physical Review Letters</i> , 2010, 105, 068101.	7.8	34
7	Curvature-driven morphing of non-Euclidean shells. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170087.	2.1	32
8	Geometry of Wave Propagation on Active Deformable Surfaces. <i>Physical Review Letters</i> , 2018, 120, 268001.	7.8	24
9	Complexity of Dynamics as Variability of Predictability. <i>Journal of Statistical Physics</i> , 2004, 114, 1127-1137.	1.2	22
10	Subdivision shell elements with anisotropic growth. <i>International Journal for Numerical Methods in Engineering</i> , 2013, 95, 791-810.	2.8	22
11	Entropic effects in cell lineage tree packings. <i>Nature Physics</i> , 2018, 14, 1016-1021.	16.7	21
12	Inverse design of discrete mechanical metamaterials. <i>Physical Review Materials</i> , 2019, 3, .	2.4	21
13	Fluid membrane vesicles in confinement. <i>New Journal of Physics</i> , 2012, 14, 095021.	2.9	20
14	Controlling fracture cascades through twisting and quenching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8665-8670.	7.1	16
15	Defect formation dynamics in curved elastic surface crystals. <i>Soft Matter</i> , 2018, 14, 2329-2338.	2.7	15
16	Simulating Thin Sheets: Buckling, Wrinkling, Folding and Growth. <i>Journal of Physics: Conference Series</i> , 2014, 487, 012012.	0.4	10
17	Anomalous percolation flow transition of yield stress fluids in porous media. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	9
18	Excess Entropies Suggest the Physiology of Neurons to Be Primed for Higher-Level Computation. <i>Physical Review Letters</i> , 2021, 127, 148101.	7.8	3