

Jayson Paulose

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,571
citations

566801

15
h-index

713013

21
g-index

24
all docs

24
docs citations

24
times ranked

2131
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological modes bound to dislocations in mechanical metamaterials. <i>Nature Physics</i> , 2015, 11, 153-156.	6.5	290
2	Elastic Instability of a Crystal Growing on a Curved Surface. <i>Science</i> , 2014, 343, 634-637.	6.0	205
3	Selective buckling via states of self-stress in topological metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7639-7644.	3.3	191
4	Topological Mechanics of Origami and Kirigami. <i>Physical Review Letters</i> , 2016, 116, 135501.	2.9	156
5	Delayed Buckling and Guided Folding of Inhomogeneous Capsules. <i>Physical Review Letters</i> , 2012, 109, 134302.	2.9	130
6	Spatiotemporal order and emergent edge currents in active spinner materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12919-12924.	3.3	111
7	Additives for vaccine storage to improve thermal stability of adenoviruses from hours to months. <i>Nature Communications</i> , 2016, 7, 13520.	5.8	86
8	Sonic Landau Levels and Synthetic Gauge Fields in Mechanical Metamaterials. <i>Physical Review Letters</i> , 2017, 119, 195502.	2.9	61
9	Buckling pathways in spherical shells with soft spots. <i>Soft Matter</i> , 2013, 9, 8227.	1.2	60
10	Fluctuating shells under pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19551-19556.	3.3	57
11	Mechanical strain sensing implicated in cell shape recovery in <i>Escherichia coli</i> . <i>Nature Microbiology</i> , 2017, 2, 17115.	5.9	52
12	Geared Topological Metamaterials with Tunable Mechanical Stability. <i>Physical Review X</i> , 2016, 6, .	2.8	35
13	The impact of long-range dispersal on gene surfing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7584-7593.	3.3	34
14	Localizing softness and stress along loops in 3D topological metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 489-494.	3.3	28
15	Spatial soft sweeps: Patterns of adaptation in populations with long-range dispersal. <i>PLoS Genetics</i> , 2019, 15, e1007936.	1.5	25
16	Two-parameter sequential adsorption model applied to microfiber clustering. <i>Soft Matter</i> , 2010, 6, 2421.	1.2	11
17	Theory of interacting dislocations on cylinders. <i>Physical Review E</i> , 2013, 87, 042314.	0.8	10
18	Topological Protection Can Arise from Thermal Fluctuations and Interactions. <i>Physical Review Letters</i> , 2019, 122, 118001.	2.9	9

#	ARTICLE	IF	CITATIONS
19	Stopping and Reversing Sound via Dynamic Dispersion Tuning in a Phononic Metamaterial. Physical Review Applied, 2021, 15, .	1.5	8
20	Nondispersive One-Way Signal Amplification in Sonic Metamaterials. Physical Review Applied, 2022, 17, .	1.5	6
21	Indentation responses of pressurized ellipsoidal and cylindrical elastic shells: Insights from shallow-shell theory. Physical Review E, 2021, 104, 025004.	0.8	3
22	Branching structure of genealogies in spatially growing populations and its implications for population genetics inference. Journal of Physics Condensed Matter, 2022, , .	0.7	0