

Marcelo A Dias

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

679
citations

759233

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27
all docs

27
docs citations

27
times ranked

735
citing authors

#	ARTICLE	IF	CITATIONS
1	Cutting holes in bistable folds. <i>Mechanics Research Communications</i> , 2022, 124, 103700.	1.8	8
2	On microscopic analysis of fracture in unidirectional composite material using phase field modelling. <i>Composites Science and Technology</i> , 2022, 220, 109242.	7.8	6
3	On local kirigami mechanics II: Stretchable creased solutions. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 161, 104812.	4.8	2
4	On local kirigami mechanics I: Isometric conical solutions. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 151, 104370.	4.8	8
5	Can confined mechanical metamaterials replace adhesives?. <i>Extreme Mechanics Letters</i> , 2021, 48, 101411.	4.1	13
6	Reentrant tensegrity: A three-periodic, chiral, tensegrity structure that is auxetic. <i>Science Advances</i> , 2021, 7, eabj6737.	10.3	7
7	Direct Observation of Topological Defects in Striped Block Copolymer Discs and Polymersomes. <i>ACS Nano</i> , 2020, 14, 4829-4838.	14.6	11
8	Stiffness of the human foot and evolution of the transverse arch. <i>Nature</i> , 2020, 579, 97-100.	27.8	112
9	Tunable wrinkling of thin nematic liquid crystal elastomer sheets. <i>Physical Review E</i> , 2019, 100, 022701.	2.1	13
10	Lifting Kirigami Actuators Up Where They Belong. , 2019, , .		6
11	Foldable cones as a framework for nonrigid origami. <i>Physical Review E</i> , 2019, 100, 033003.	2.1	15
12	Analytic analysis of auxetic metamaterials through analogy with rigid link systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170753.	2.1	15
13	Overcurvature induced multistability of linked conical frusta: how a "bendy straw"™ holds its shape. <i>Soft Matter</i> , 2018, 14, 8636-8642.	2.7	17
14	Multistable kirigami for tunable architected materials. <i>Physical Review Materials</i> , 2018, 2, .	2.4	46
15	Kirigami actuators. <i>Soft Matter</i> , 2017, 13, 9087-9092.	2.7	79
16	Embracing failure. <i>Physics World</i> , 2017, 30, 25-28.	0.0	3
17	Diffusion of a Brownian ellipsoid in a force field. <i>Europhysics Letters</i> , 2016, 114, 30005.	2.0	9
18	Recipes for selecting failure modes in 2-d lattices. <i>Extreme Mechanics Letters</i> , 2016, 9, 11-20.	4.1	14

#	ARTICLE	IF	CITATIONS
19	Wunderlich, Meet Kirchhoff A General and Unified Description of Elastic Ribbons and Thin Rods. , 2016, , 49-66.		2
20	Wunderlich, Meet Kirchhoff A General and Unified Description of Elastic Ribbons and Thin Rods. Journal of Elasticity, 2015, 119, 49-66.	1.9	66
21	Minimal model for transient swimming in a liquid crystal. European Physical Journal E, 2015, 38, 94.	1.6	11
22	A non-linear rod model for folded elastic strips. Journal of the Mechanics and Physics of Solids, 2014, 62, 57-80.	4.8	57
23	Swimming near deformable membranes at low Reynolds number. Physics of Fluids, 2013, 25, .	4.0	19
24	The shape and mechanics of curved-fold origami structures. Europhysics Letters, 2012, 100, 54005.	2.0	31
25	Geometric Mechanics of Curved Crease Origami. Physical Review Letters, 2012, 109, 114301.	7.8	108
26	Geometric Mechanics of Curved Crease Origami. , 0, .		1