

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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23
g-index

27
all docs

27
docs citations

27
times ranked

735
citing authors

#	ARTICLE	IF	CITATIONS
1	Stiffness of the human foot and evolution of the transverse arch. <i>Nature</i> , 2020, 579, 97-100.	27.8	112
2	Geometric Mechanics of Curved Crease Origami. <i>Physical Review Letters</i> , 2012, 109, 114301.	7.8	108
3	Kirigami actuators. <i>Soft Matter</i> , 2017, 13, 9087-9092.	2.7	79
4	Wunderlich, Meet Kirchhoff: A General and Unified Description of Elastic Ribbons and Thin Rods. <i>Journal of Elasticity</i> , 2015, 119, 49-66.	1.9	66
5	A non-linear rod model for folded elastic strips. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 62, 57-80.	4.8	57
6	Multistable kirigami for tunable architected materials. <i>Physical Review Materials</i> , 2018, 2, .	2.4	46
7	The shape and mechanics of curved-fold origami structures. <i>Europhysics Letters</i> , 2012, 100, 54005.	2.0	31
8	Swimming near deformable membranes at low Reynolds number. <i>Physics of Fluids</i> , 2013, 25, .	4.0	19
9	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
10	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
11	Foldable cones as a framework for nonrigid origami. <i>Physical Review E</i> , 2019, 100, 033003.	2.1	15
12	Recipes for selecting failure modes in 2-d lattices. <i>Extreme Mechanics Letters</i> , 2016, 9, 11-20.	4.1	14
13	Tunable wrinkling of thin nematic liquid crystal elastomer sheets. <i>Physical Review E</i> , 2019, 100, 022701.	2.1	13
14	Can confined mechanical metamaterials replace adhesives?. <i>Extreme Mechanics Letters</i> , 2021, 48, 101411.	4.1	13
15	Minimal model for transient swimming in a liquid crystal. <i>European Physical Journal E</i> , 2015, 38, 94.	1.6	11
16	Direct Observation of Topological Defects in Striped Block Copolymer Discs and Polymersomes. <i>ACS Nano</i> , 2020, 14, 4829-4838.	14.6	11
17	Diffusion of a Brownian ellipsoid in a force field. <i>Europhysics Letters</i> , 2016, 114, 30005.	2.0	9
18	Cutting holes in bistable folds. <i>Mechanics Research Communications</i> , 2022, 124, 103700.	1.8	8

#	ARTICLE	IF	CITATIONS
19	On local kirigami mechanics I: Isometric conical solutions. Journal of the Mechanics and Physics of Solids, 2021, 151, 104370.	4.8	8
20	Reentrant tensegrity: A three-periodic, chiral, tensegrity structure that is auxetic. Science Advances, 2021, 7, eabj6737.	10.3	7
21	Lifting Kirigami Actuators Up Where They Belong. , 2019, , .		6
22	On microscopic analysis of fracture in unidirectional composite material using phase field modelling. Composites Science and Technology, 2022, 220, 109242.	7.8	6
23	Embracing failure. Physics World, 2017, 30, 25-28.	0.0	3
24	Wunderlich, Meier Kirchhoff A General and Unified Description of Elastic Ribbons and Thin Rods. , 2016, , 49-66.		2
25	On local kirigami mechanics II: Stretchable creased solutions. Journal of the Mechanics and Physics of Solids, 2022, 161, 104812.	4.8	2
26	Geometric Mechanics of Curved Crease Origami. , 0, .		1