

Matteo Pezzulla

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

645
citations

623188

14
h-index

676716

22
g-index

25
all docs

25
docs citations

25
times ranked

582
citing authors

#	ARTICLE	IF	CITATIONS
1	A Kirchhoff-like theory for hard magnetic rods under geometrically nonlinear deformation in three dimensions. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 160, 104739.	2.3	34
2	A geometrically exact model for thin magneto-elastic shells. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 166, 104916.	2.3	11
3	Magneto-active elastic shells with tunable buckling strength. <i>Nature Communications</i> , 2021, 12, 2831.	5.8	41
4	The remarkable bending properties of perforated plates. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 154, 104514.	2.3	8
5	Nonlinear buckling behavior of a complete spherical shell under uniform external pressure and homogenous natural curvature. <i>Physical Review E</i> , 2020, 102, 023003.	0.8	11
6	Buckling of pressurized spherical shells containing a through-thickness defect. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 138, 103923.	2.3	22
7	Deformation of porous flexible strip in low and moderate Reynolds number flows. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	14
8	Evolution of critical buckling conditions in imperfect bilayer shells through residual swelling. <i>Soft Matter</i> , 2019, 15, 6134-6144.	1.2	12
9	Buckling of geometrically confined shells. <i>Soft Matter</i> , 2019, 15, 1215-1222.	1.2	26
10	Hydrodynamic loading of perforated disks in creeping flows. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	8
11	A Weak Form Implementation of Nonlinear Axisymmetric Shell Equations With Examples. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	1.1	4
12	Curvature-Induced Instabilities of Shells. <i>Physical Review Letters</i> , 2018, 120, 048002.	2.9	53
13	Snapping of bistable, prestressed cylindrical shells. <i>Europhysics Letters</i> , 2018, 122, 64003.	0.7	17
14	Curvature-driven morphing of non-Euclidean shells. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170087.	1.0	32
15	Geometry and mechanics of thin growing bilayers. <i>Soft Matter</i> , 2016, 12, 4435-4442.	1.2	72
16	Steady and transient analysis of anisotropic swelling in fibered gels. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	20
17	Mechanics of Bio-€ hybrid Systems. <i>Procedia IUTAM</i> , 2015, 12, 145-153.	1.2	0
18	Morphing of geometric composites via residual swelling. <i>Soft Matter</i> , 2015, 11, 5812-5820.	1.2	80

#	ARTICLE	IF	CITATIONS
19	Anisotropic swelling of thin gel sheets. <i>Soft Matter</i> , 2015, 11, 1492-1499.	1.2	34
20	Actuation and buckling effects in IPMCs. , 2014, , .		1
21	Multiphysics of bio-hybrid systems: shape control and electro-induced motion. <i>Smart Materials and Structures</i> , 2014, 23, 045043.	1.8	7
22	Swelling-induced and controlled curving in layered gel beams. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014, 470, 20140467.	1.0	43
23	Curled actuated shapes of ionic polymer metal composites strips. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	28
24	Thermodynamically based multiphysic modeling of ionic polymer metal composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1887-1897.	1.4	66
25	Giant Displacements in IPMC-Based Structures: A Preliminary Study. <i>Advanced Materials Research</i> , 0, 745, 119-128.	0.3	1