

# Matteo Pezzulla

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3911516/publications.pdf>

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	Morphing of geometric composites via residual swelling. <i>Soft Matter</i> , 2015, 11, 5812-5820.	1.2	80
2	Geometry and mechanics of thin growing bilayers. <i>Soft Matter</i> , 2016, 12, 4435-4442.	1.2	72
3	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
4	Curvature-Induced Instabilities of Shells. <i>Physical Review Letters</i> , 2018, 120, 048002.	2.9	53
5	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
6	Magneto-active elastic shells with tunable buckling strength. <i>Nature Communications</i> , 2021, 12, 2831.	5.8	41
7	Anisotropic swelling of thin gel sheets. <i>Soft Matter</i> , 2015, 11, 1492-1499.	1.2	34
8	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
9	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
10	Curled actuated shapes of ionic polymer metal composites strips. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	28
11	Buckling of geometrically confined shells. <i>Soft Matter</i> , 2019, 15, 1215-1222.	1.2	26
12	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
13	Steady and transient analysis of anisotropic swelling in fibered gels. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	20
14	Snapping of bistable, prestressed cylindrical shells. <i>Europhysics Letters</i> , 2018, 122, 64003.	0.7	17
15	Deformation of porous flexible strip in low and moderate Reynolds number flows. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	14
16	Evolution of critical buckling conditions in imperfect bilayer shells through residual swelling. <i>Soft Matter</i> , 2019, 15, 6134-6144.	1.2	12
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	The remarkable bending properties of perforated plates. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 154, 104514.	2.3	8
20	Hydrodynamic loading of perforated disks in creeping flows. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	8
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	A Weak Form Implementation of Nonlinear Axisymmetric Shell Equations With Examples. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	1.1	4
23	Giant Displacements in IPMC-Based Structures: A Preliminary Study. <i>Advanced Materials Research</i> , 0, 745, 119-128.	0.3	1
24	Actuation and buckling effects in IPMCs. , 2014, , .		1
25	Mechanics of Bio-hybrid Systems. <i>Procedia IUTAM</i> , 2015, 12, 145-153.	1.2	0