

# Douglas P Holmes

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9034182/publications.pdf>

Version: 2024-02-01

25  
papers

1,034  
citations

471509

17  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1036  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bending and twisting of soft materials by non-homogenous swelling. <i>Soft Matter</i> , 2011, 7, 5188.	2.7	134
2	Elasticity and stability of shape-shifting structures. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 40, 118-137.	7.4	95
3	Grasping with kirigami shells. <i>Science Robotics</i> , 2021, 6, .	17.6	86
4	Morphing of geometric composites via residual swelling. <i>Soft Matter</i> , 2015, 11, 5812-5820.	2.7	80
5	Kirigami actuators. <i>Soft Matter</i> , 2017, 13, 9087-9092.	2.7	79
6	Geometry and mechanics of thin growing bilayers. <i>Soft Matter</i> , 2016, 12, 4435-4442.	2.7	72
7	Buckling of dielectric elastomeric plates for soft, electrically active microfluidic pumps. <i>Soft Matter</i> , 2014, 10, 4789-4794.	2.7	56
8	Curvature-Induced Instabilities of Shells. <i>Physical Review Letters</i> , 2018, 120, 048002.	7.8	53
9	Bioinspired Electrically Activated Soft Bistable Actuators. <i>Advanced Functional Materials</i> , 2018, 28, 1802999.	14.9	53
10	Control and manipulation of microfluidic flow via elastic deformations. <i>Soft Matter</i> , 2013, 9, 7049-7053.	2.7	46
11	Multistable kirigami for tunable architected materials. <i>Physical Review Materials</i> , 2018, 2, .	2.4	46
12	Static bistability of spherical caps. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170910.	2.1	42
13	Swelling-induced deformations: a materials-defined transition from macroscale to microscale deformations. <i>Soft Matter</i> , 2013, 9, 5524-5528.	2.7	36
14	Extended lubrication theory: improved estimates of flow in channels with variable geometry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170234.	2.1	26
15	Buckling of geometrically confined shells. <i>Soft Matter</i> , 2019, 15, 1215-1222.	2.7	26
16	Voltage-induced buckling of dielectric films using fluid electrodes. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	24
17	Revisiting the generalized scaling law for adhesion: role of compliance and extension to progressive failure. <i>Soft Matter</i> , 2017, 13, 7529-7536.	2.7	24
18	Evolution of critical buckling conditions in imperfect bilayer shells through residual swelling. <i>Soft Matter</i> , 2019, 15, 6134-6144.	2.7	12

#	ARTICLE	IF	CITATIONS
19	Friction of extensible strips: An extended shear lag model with experimental evaluation. International Journal of Solids and Structures, 2017, 124, 125-134.	2.7	11
20	Nonlinear buckling behavior of a complete spherical shell under uniform external pressure and homogenous natural curvature. Physical Review E, 2020, 102, 023003.	2.1	11
21	Equilibria and instabilities of a Slinky: Discrete model. International Journal of Non-Linear Mechanics, 2014, 65, 236-244.	2.6	7
22	Elastic Instabilities Govern the Morphogenesis of the Optic Cup. Physical Review Letters, 2021, 127, 138102.	7.8	5
23	Delayed buckling of spherical shells due to viscoelastic knockdown of the critical load. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, .	2.1	5
24	A Cut Above: Folding and Cutting Advanced Materials. Matter, 2019, 1, 799-800.	10.0	3
25	Efficient snap-through of spherical caps by applying a localized curvature stimulus. European Physical Journal E, 2022, 45, 3.	1.6	2