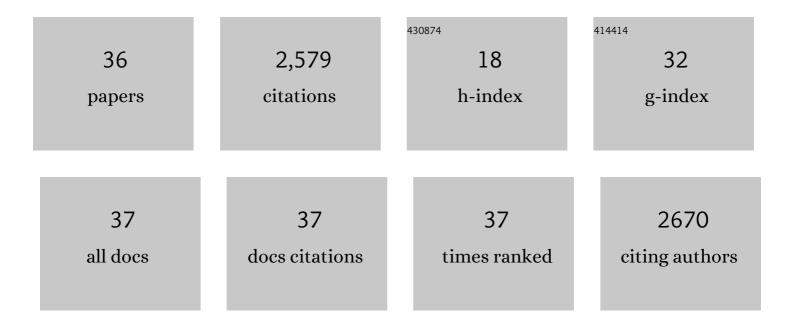
Christian D Santangelo

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4939454/publications.pdf

Version: 2024-02-01



#	Article	IF	CITATIONS
1	Energetic rigidity. II. Applications in examples of biological and underconstrained materials. Physical Review E, 2022, 105, 025004.	2.1	14
2	Energetic rigidity. I. A unifying theory of mechanical stability. Physical Review E, 2022, 105, 025003.	2.1	19
3	Thermal Fluctuations of Singular Bar-Joint Mechanisms. Physical Review Letters, 2022, 128, .	7.8	1
4	Topology in Nonlinear Mechanical Systems. Physical Review Letters, 2021, 127, 076802.	7.8	14
5	Apolipoprotein Mimetic Peptide Inhibits Neutrophil-Driven Inflammatory Damage via Membrane Remodeling and Suppression of Cell Lysis. ACS Nano, 2021, 15, 15930-15939.	14.6	7
6	Mechanics of Metric Frustration in Contorted Filament Bundles: From Local Symmetry to Columnar Elasticity. Physical Review Letters, 2021, 127, 218002.	7.8	2
7	Theory and practice of origami in science. Soft Matter, 2020, 16, 94-101.	2.7	17
8	Topological transitions in the configuration space of non-Euclidean origami. Physical Review E, 2020, 101, 043003.	2.1	13
9	Hidden symmetries generate rigid folding mechanisms in periodic origami. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30252-30259.	7.1	17
10	Enabling Robust Selfâ€Folding Origami by Preâ€Biasing Vertex Buckling Direction. Advanced Materials, 2019, 31, e0193006.	21.0	32
11	Biasing Buckling Direction in Shapeâ€Programmable Hydrogel Sheets with Throughâ€Thickness Gradients. Advanced Functional Materials, 2019, 29, 1905273.	14.9	39
12	Branches of Triangulated Origami Near the Unfolded State. Physical Review X, 2018, 8, .	8.9	15
13	Growth of form in thin elastic structures. Soft Matter, 2018, 14, 8361-8371.	2.7	6
14	Topological kinematics of origami metamaterials. Nature Physics, 2018, 14, 811-815.	16.7	74
15	Extreme Mechanics: Self-Folding Origami. Annual Review of Condensed Matter Physics, 2017, 8, 165-183.	14.5	55
16	Programmable and reversible assembly of soft capillary multipoles. Materials Horizons, 2017, 4, 228-235.	12.2	20
17	Subjamming transition in binary sphere mixtures. Physical Review E, 2017, 96, 052905.	2.1	19
18	Nonlinear mechanics of rigidifying curves. Physical Review E, 2017, 96, 013003.	2.1	0

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#	Article	IF	CITATIONS
19	Topological Mechanics of Origami and Kirigami. Physical Review Letters, 2016, 116, 135501.	7.8	156
20	Lattice mechanics of origami tessellations. Physical Review E, 2015, 92, 013205.	2.1	65
21	Mapping curved wrinkles. Nature Materials, 2015, 14, 266-267.	27.5	Ο
22	Origami structures with a critical transition to bistability arising from hidden degrees of freedom. Nature Materials, 2015, 14, 389-393.	27.5	382
23	Geometrically controlled snapping transitions in shells with curved creases. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11175-11180.	7.1	67
24	Optimal wrapping of liquid droplets with ultrathinÂsheets. Nature Materials, 2015, 14, 1206-1209.	27.5	62
25	Programming Reversibly Selfâ€Folding Origami with Micropatterned Photoâ€Crosslinkable Polymer Trilayers. Advanced Materials, 2015, 27, 79-85.	21.0	381
26	Mechanics of large folds in thin interfacial films. Physical Review E, 2014, 90, 042401.	2.1	18
27	Using origami design principles to fold reprogrammable mechanical metamaterials. Science, 2014, 345, 647-650.	12.6	714
28	Self-assembly on a cylinder: a model system for understanding the constraint of commensurability. Soft Matter, 2013, 9, 10016.	2.7	23
29	Nambu–Goldstone modes and diffuse deformations in elastic shells. Soft Matter, 2013, 9, 8246.	2.7	7
30	Swelling-driven rolling and anisotropic expansion of striped gel sheets. Soft Matter, 2013, 9, 8264.	2.7	77
31	Thermally responsive rolling of thin gel strips with discrete variations in swelling. Soft Matter, 2012, 8, 2375.	2.7	179
32	Buckling thin disks and ribbons with non-Euclidean metrics. Europhysics Letters, 2009, 86, 34003.	2.0	35
33	Mesophases of soft-sphere aggregates. Soft Matter, 2009, 5, 3629.	2.7	42
34	The Geometry and Topology of Liquid Crystals. AIP Conference Proceedings, 2008, , .	0.4	0
35	Membrane fluctuations around inclusions. Journal of Computer-Aided Materials Design, 2007, 14, 103-109.	0.7	5

36 Geometric Mechanics of Curved Crease Origami. , 0, .