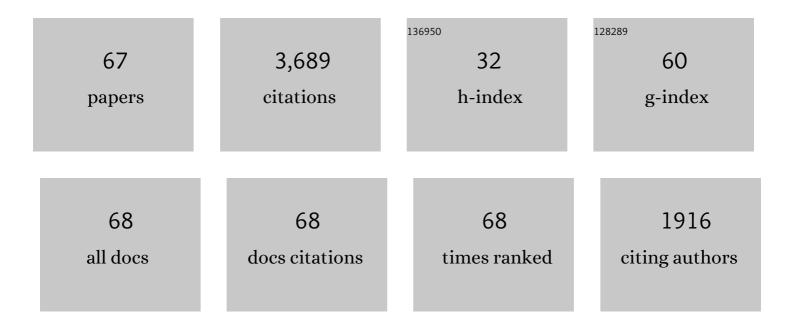
Daphne Attard

List of Publications by Year in descending order

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#	Article	IF	CITATION
1	Auxetic Behavior and Other Negative Thermomechanical Properties from Rotating Rigid Units. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	27
2	Blisters and Calluses from Rowing: Prevalence, Perceptions and Pain Tolerance. Medicina (Lithuania), 2022, 58, 77.	2.0	5
3	Implementation of periodic boundary conditions for loading of mechanical metamaterials and other complex geometric microstructures using finite element analysis. Engineering With Computers, 2021, 37, 1765.	6.1	42
4	Auxetic mechanical metamaterials with diamond and elliptically shaped perforations. Acta Mechanica, 2021, 232, 779-791.	2.1	21
5	Mathematical modeling of auxetic systems: bridging the gap between analytical models and observation. International Journal of Mechanical and Materials Engineering, 2021, 16, .	2.2	7
6	The Auxetic Behavior of a General Starâ€4 Structure. Physica Status Solidi (B): Basic Research, 2021, 258, 2100158.	1.5	9
7	Auxetic-Inspired Honeycomb Macrostructures With Anomalous Tailormade Thermal Expansion Properties Including "Negative―Heat-Shrinking Characteristics. Frontiers in Materials, 2021, 8, .	2.4	4
8	The Auxetic Behavior of a General Starâ€4 Structure. Physica Status Solidi (B): Basic Research, 2021, 258, .	1.5	1
9	A Novel Mechanical Metamaterial Exhibiting Auxetic Behavior and Negative Compressibility. Materials, 2020, 13, 79.	2.9	31
10	On the Design of Multimaterial Honeycombs and Structures with T‣haped Joints Having Tunable Thermal and Compressibility Properties. Physica Status Solidi (B): Basic Research, 2020, 257, 1900633.	1.5	4
11	The Multidirectional Auxeticity and Negative Linear Compressibility of a 3D Mechanical Metamaterial. Materials, 2020, 13, 2193.	2.9	24
12	Smart Honeycomb "Mechanical Metamaterials―with Tunable Poisson's Ratios. Physica Status Solidi (B): Basic Research, 2020, 257, 1900707.	1.5	17
13	Negative Mechanical Materials and Metamaterials: Giant Out-of-Plane Auxeticity from Multi- Dimensional Wine-Rack-like Motifs. MRS Advances, 2020, 5, 717-725.	0.9	4
14	Starchirals–A novel class of auxetic hierarchal structures. International Journal of Mechanical Sciences, 2020, 179, 105631.	6.7	46
15	Analysis of the Deformation Behavior and Mechanical Properties of Slitâ€Perforated Auxetic Metamaterials. Physica Status Solidi (B): Basic Research, 2019, 256, 1800153.	1.5	23
16	On the Compressibility Properties of the Wineâ€Rack‣ike Carbon Allotropes and Related Poly(phenylacetylene) Systems. Physica Status Solidi (B): Basic Research, 2019, 256, 1800572.	1.5	20
17	Mechanical metamaterials with star-shaped pores exhibiting negative and zero Poisson's ratio. Materials and Design, 2018, 146, 28-37.	7.0	133
18	Giant Auxetic Behaviour in Engineered Graphene. Annalen Der Physik, 2018, 530, 1700330.	2.4	24

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19	Auxetic metamaterials inspired from wine-racks. Journal of Materials Science, 2018, 53, 5079-5091.	3.7	12
20	Out-of-plane doming behaviour from constrained auxetics. Smart Materials and Structures, 2018, 27, 015020.	3.5	15
21	An analytical and finite element study on the mechanical properties of irregular hexachiral honeycombs. Smart Materials and Structures, 2018, 27, 105016.	3.5	35
22	Filtration Properties of Auxetics with Rotating Rigid Units. Materials, 2018, 11, 725.	2.9	15
23	On the dynamics and control of mechanical properties of hierarchical rotating rigid unit auxetics. Scientific Reports, 2017, 7, 46529.	3.3	52
24	On the Mechanical Properties of Graphyne, Graphdiyne, and Other Poly(Phenylacetylene) Networks. Physica Status Solidi (B): Basic Research, 2017, 254, 1700380.	1.5	18
25	Negative linear compressibility from rotating rigid units. Physica Status Solidi (B): Basic Research, 2016, 253, 1410-1418.	1.5	34
26	Nano networks exhibiting negative linear compressibility. Physica Status Solidi (B): Basic Research, 2016, 253, 1419-1427.	1.5	9
27	Unimode metamaterials exhibiting negative linear compressibility and negative thermal expansion. Smart Materials and Structures, 2016, 25, 025009.	3.5	76
28	Auxetic metamaterials exhibiting giant negative Poisson's ratios. Physica Status Solidi - Rapid Research Letters, 2015, 9, 425-430.	2.4	118
29	Internal rib structure can be predicted using mathematical models: An anatomic study comparing the chest to a shell dome with application to understanding fractures. Clinical Anatomy, 2015, 28, 1008-1016.	2.7	4
30	External rib structure can be predicted using mathematical models: An anatomical study with application to understanding fractures and intercostal muscle function. Clinical Anatomy, 2015, 28, 512-519.	2.7	9
31	Hierarchical Auxetic Mechanical Metamaterials. Scientific Reports, 2015, 5, 8395.	3.3	226
32	A hypothesis for reactivation of pulmonary tuberculosis: How thoracic wall shape affects the epidemiology of tuberculosis. Clinical Anatomy, 2015, 28, 614-620.	2.7	6
33	Influence of translational disorder on the mechanical properties of hexachiral honeycomb systems. Composites Part B: Engineering, 2015, 80, 84-91.	12.0	72
34	Tailoring Graphene to Achieve Negative Poisson's Ratio Properties. Advanced Materials, 2015, 27, 1455-1459.	21.0	275
35	Modeling auxetic foams through semi-rigid rotating triangles. Physica Status Solidi (B): Basic Research, 2014, 251, 297-306.	1.5	52
36	On the properties of real finite-sized planar and tubular stent-like auxetic structures. Physica Status Solidi (B): Basic Research, 2014, 251, 321-327.	1.5	58

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#	Article	IF	CITATIONS
37	On the suitability of hexagonal honeycombs as stent geometries. Physica Status Solidi (B): Basic Research, 2014, 251, 328-337.	1.5	50
38	A realistic generic model for antiâ€ŧetrachiral systems. Physica Status Solidi (B): Basic Research, 2013, 250, 2012-2019.	1.5	85
39	Negative thermal expansion from disc, cylindrical, and needle shaped inclusions. Physica Status Solidi (B): Basic Research, 2013, 250, 2051-2056.	1.5	13
40	Honeycomb composites with auxetic out-of-plane characteristics. Composite Structures, 2013, 106, 150-159.	5.8	59
41	On the mechanical properties of centroâ€symmetric honeycombs with Tâ€shaped joints. Physica Status Solidi (B): Basic Research, 2013, 250, 2002-2011.	1.5	13
42	On the auxetic properties of generic rotating rigid triangles. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 810-830.	2.1	81
43	Three-dimensional cellular structures with negative Poisson's ratio and negative compressibility properties. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 3121-3138.	2.1	85
44	A threeâ€dimensional rotating rigid units network exhibiting negative Poisson's ratios. Physica Status Solidi (B): Basic Research, 2012, 249, 1330-1338.	1.5	85
45	Unusual Thermoelastic Properties of Methanol Monohydrate. Science, 2011, 331, 687-688.	12.6	21
46	An Improved Analytical Model for the Elastic Constants of Auxetic and Conventional Hexagonal Honeycombs. Frontiers in Forests and Global Change, 2011, 30, 287-310.	1.1	38
47	Negative linear compressibility of hexagonal honeycombs and related systems. Scripta Materialia, 2011, 65, 565-568.	5.2	113
48	Auxetic behaviour from connected different-sized squares and rectangles. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 439-458.	2.1	90
49	On the effect of heat and solvent exposure on the microstructure properties of auxetic foams: A preliminary study. Physica Status Solidi (B): Basic Research, 2011, 248, 39-44.	1.5	26
50	Molecular networks with a near zero Poisson's ratio. Physica Status Solidi (B): Basic Research, 2011, 248, 111-116.	1.5	31
51	Modelling of hexagonal honeycombs exhibiting zero Poisson's ratio. Physica Status Solidi (B): Basic Research, 2011, 248, 52-59.	1.5	59
52	Modelling and testing of a foldable macrostructure exhibiting auxetic behaviour. Physica Status Solidi (B): Basic Research, 2011, 248, 117-122.	1.5	20
53	Adjustable and negative thermal expansion from multilayered systems. Physica Status Solidi - Rapid Research Letters, 2010, 4, 133-135.	2.4	26
54	Molecular-Level Deformations in Auxetic Organic Networked Polymers. ACS Symposium Series, 2010, , 197-214.	0.5	1

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55	Hexagonal Honeycombs with Zero Poisson's Ratios and Enhanced Stiffness. Advanced Engineering Materials, 2010, 12, 855-862.	3.5	140
56	Elastic constants of 3-, 4- and 6-connected chiral and anti-chiral honeycombs subject to uniaxial in-plane loading. Composites Science and Technology, 2010, 70, 1042-1048.	7.8	470
57	Composites with needle-like inclusions exhibiting negative thermal expansion: A preliminary investigation. Composites Science and Technology, 2010, 70, 2248-2252.	7.8	26
58	On the behaviour of bi-material strips when subjected to changes in external hydrostatic pressure. Scripta Materialia, 2009, 60, 65-67.	5.2	13
59	A Novel Process for the Manufacture of Auxetic Foams and for Their re onversion to Conventional Form. Advanced Engineering Materials, 2009, 11, 533-535.	3.5	121
60	On rotating rigid parallelograms and their potential for exhibiting auxetic behaviour. Physica Status Solidi (B): Basic Research, 2009, 246, 2033-2044.	1.5	62
61	On the properties of auxetic rotating stretching squares. Physica Status Solidi (B): Basic Research, 2009, 246, 2045-2054.	1.5	40
62	Auxetic behaviour from stretching connected squares. Journal of Materials Science, 2008, 43, 5962-5971.	3.7	55
63	On the auxetic properties of rotating rhombi and parallelograms: A preliminary investigation. Physica Status Solidi (B): Basic Research, 2008, 245, 521-529.	1.5	144
64	Trussâ€ŧype systems exhibiting negative compressibility. Physica Status Solidi (B): Basic Research, 2008, 245, 2405-2414.	1.5	51
65	Auxetic behaviour from rotating rhombi. Physica Status Solidi (B): Basic Research, 2008, 245, 2395-2404.	1.5	101
66	On the mechanical properties and auxetic potential of various organic networked polymers. Molecular Simulation, 2008, 34, 1149-1158.	2.0	22
67	On the role of rotating tetrahedra for generating auxetic behavior in NAT and related systems. Journal of Non-Crystalline Solids, 2008, 354, 4214-4220.	3.1	20