Pierre-Sandre Farrugia

List of Publications by Year
in descending order

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30	840	759233 12	552781 26
papers	citations	h-index	g-index

30	30	30	539
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the properties of auxetic metaâ€tetrachiral structures. Physica Status Solidi (B): Basic Research, 2008, 245, 511-520.	1.5	194
2	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
3	A realistic generic model for antiâ€tetrachiral systems. Physica Status Solidi (B): Basic Research, 2013, 250, 2012-2019.	1.5	85
4	A system with adjustable positive or negative thermal expansion. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 1585-1596.	2.1	81
5	Auxetic behaviour from stretching connected squares. Journal of Materials Science, 2008, 43, 5962-5971.	3.7	55
6	Starchiralsâ€“A novel class of auxetic hierarchal structures. International Journal of Mechanical Sciences, 2020, 179, 105631.	6.7	46
7	Connected Triangles Exhibiting Negative Poisson's Ratios and Negative Thermal Expansion. Journal of the Physical Society of Japan, 2007, 76, 025001.	1.6	35
8	An analytical and finite element study on the mechanical properties of irregular hexachiral honeycombs. Smart Materials and Structures, 2018, 27, 105016.	3.5	35
9	Different Deformation Mechanisms Leading to Auxetic Behavior Exhibited by Missing Rib Square Grid Structures. Physica Status Solidi (B): Basic Research, 2019, 256, 1800186.	1.5	26
10	Comparative analysis of estimators for wind direction standard deviation. Meteorological Applications, 2006, 13, 29.	2.1	17
11	A Novel Threeâ€Dimensional Antiâ€Tetrachiral Honeycomb. Physica Status Solidi (B): Basic Research, 2019, 256, 1800473.	1.5	17
12	Reconfigurable magneto-mechanical metamaterials guided by magnetic fields. Composite Structures, 2022, 280, 114921.	5.8	17
13	The Push Drill Mechanism as a Novel Method to Create 3D Mechanical Metamaterial Structures. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000125.	2.4	11
14	N-body gravity and the SchrÃ¶dinger equation. Classical and Quantum Gravity, 2007, 24, 4647-4659.	4.0	9
15	On the Algorithms Used to Compute the Standard Deviation of Wind Direction. Journal of Applied Meteorology and Climatology, 2009, 48, 2144-2151.	1.5	9
16	The Auxetic Behavior of a General Starâ€4 Structure. Physica Status Solidi (B): Basic Research, 2021, 258, 2100158.	1.5	9
17	Auxetic Cellular Materials and Structures. , 2005, , 489.		8
18	Tuning the Mechanical Properties of the Antiâ€Tetrachiral System Using Nonuniform Ligament Thickness. Physica Status Solidi (B): Basic Research, 2020, 257, 1900507.	1.5	8

#	Article	IF	Citations
19	Edge Effects of a Hexagonal Honeycomb on the Poisson's Ratio and Young's Modulus. Physica Status Solidi (B): Basic Research, 2020, 257, 1900511.	1.5	6
20	Investigations of VOCs in and around buildings close to service stations. Atmospheric Environment, 2018, 172, 93-101.	4.1	5
21	An integrated approach to the study of heritage sites. Journal of Cultural Heritage, 2019, 37, 1-8.	3.3	5
22	Auxetic behavior obtained through the large deformations of variants of the rectangular grid. Mechanics of Advanced Materials and Structures, 2023, 30, 262-271.	2.6	5
23	Turbulent plumes evolving in a vertical flow under a mixed convection regime. International Journal of Heat and Mass Transfer, 2012, 55, 1931-1940.	4.8	4
24	Vectorial statistics for the standard deviation of wind direction. Meteorology and Atmospheric Physics, 2017, 129, 495-506.	2.0	3
25	Tuning the Mechanical Properties of the Antiâ€Tetrachiral System Using Nonuniform Ligament Thickness. Physica Status Solidi (B): Basic Research, 2020, 257, 2070039.	1.5	2
26	Series solutions for turbulent plumes evolving in a natural environment. Journal of Engineering Thermophysics, 2014, 23, 236-255.	1.4	1
27	The Push Drill Mechanism as a Novel Method to Create 3D Mechanical Metamaterial Structures. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2070032.	2.4	1
28	New measures of wind angular dispersion in three dimensions. , 2008, , .		1
29	The Auxetic Behavior of a General Starâ€4 Structure. Physica Status Solidi (B): Basic Research, 2021, 258, .	1.5	1
30	Power series solutions for laminar plumes in a natural environment. Journal of Applied Mechanics and Technical Physics, 2014, 55, 781-792.	0.5	0