

# Tomasz Strek

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

770  
citations

516710

16  
h-index

642732

23  
g-index

25  
all docs

25  
docs citations

25  
times ranked

475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic response of sandwich panels with auxetic cores. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1540-1550.	1.5	103
2	Finite element analysis of auxetic plate deformation. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 4475-4480.	3.1	74
3	Computational analysis of sandwich-structured composites with an auxetic phase. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 354-366.	1.5	62
4	Thermal and structural dependence of auxetic properties of composite materials. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1551-1558.	1.5	55
5	Computer simulation of heat transfer through a ferrofluid. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 1027-1037.	1.5	52
6	The influence of large deformations on mechanical properties of sinusoidal ligament structures. <i>Smart Materials and Structures</i> , 2016, 25, 054002.	3.5	52
7	Effective mechanical properties of concentric cylindrical composites with auxetic phase. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1359-1365.	1.5	44
8	Thermoauxetic Behavior of Composite Structures. <i>Materials</i> , 2018, 11, 294.	2.9	41
9	Computational design of two-phase auxetic structures. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1387-1394.	1.5	40
10	Computational Analysis of the Mechanical Impedance of the Sandwich Beam with Auxetic Metal Foam Core. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800423.	1.5	40
11	Computational Modelling of Structures with Non-Intuitive Behaviour. <i>Materials</i> , 2017, 10, 1386.	2.9	36
12	Torsion of a Two-Phase Composite Bar With Helical Distribution of Constituents. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700050.	1.5	28
13	Analytical approximations of the shape factors for conductive heat flow in circular and regular polygonal cross-sections. <i>International Journal of Heat and Mass Transfer</i> , 2001, 44, 999-1012.	4.8	25
14	Torsion of elliptical composite beams with auxetic phase. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1359-1368.	1.5	25
15	Finite Element Analysis of the Influence of the Covering Auxetic Layer of Plate on the Contact Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700103.	1.5	23
16	Finite element analysis of auxetic obstacle deformation and fluid flow in a channel. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1387-1392.	3.1	22
17	Extremely Non-Auxetic Behavior of a Typical Auxetic Microstructure Due to Its Material Properties. <i>Materials</i> , 2021, 14, 7837.	2.9	17
18	Influence of MBBR carriers™ geometry on its flow characteristics. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 130, 134-139.	3.6	10

#	ARTICLE	IF	CITATIONS
19	Minimization of Poisson's ratio in anti-tetra-chiral two-phase structure. IOP Conference Series: Materials Science and Engineering, 2017, 248, 012006.	0.6	7
20	Estimation of Coupled Thermo-Physical and Thermo-Mechanical Properties of Porous Thermolabile Ceramic Material Using Hot Distortion Plus <sup>®</sup> Test. Defect and Diffusion Forum, 2011, 312-315, 764-769.	0.4	5
21	Determination of free surface and gravitational flow of liquid in triangular groove. Computational Mechanics, 1999, 24, 110-117.	4.0	3
22	Response of a Sandwich Plate with Auxetic Anti-tetrachiral Core to Puncture. Lecture Notes in Mechanical Engineering, 2022, , 1-14.	0.4	2
23	Vibration Transmission Loss of Auxetic Lattices. Applied Mechanics and Materials, 0, 797, 282-289.	0.2	0