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## Planar auxeticity from elliptic inclusions

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#	Paper	IF	Citations
82	Hybrid auxetic foam and perforated plate composites for human body support. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 1378-1386	1.3	14
81	Computational design of two-phase auxetic structures. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 1387-1394	1.3	39
80	Analogies across auxetic models based on deformation mechanism. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2017</b> , 11, 1600440	2.5	72
79	Designing composites with negative linear compressibility. <i>Materials and Design</i> , <b>2017</b> , 131, 343-357	8.1	18
78	Minimization of Poisson's ratio in anti-tetra-chiral two-phase structure. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 248, 012006	0.4	4
77	The Effects of Poisson's Ratio on the Indentation Behavior of Materials With Embedded System in an Elastic Matrix. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600832	1.3	1
76	Three-Dimensional Stiff Cellular Structures With Negative Poisson's Ratio. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600785	1.3	24
75	On the Structural and Mechanical Properties of Poly(Phenylacetylene) Truss-Like Hexagonal Hierarchical Nanonetworks. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700190	1.3	17
74	Design and characterization of rounded re-entrant honeycomb patterns for lightweight and rigid auxetic structures. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 115026	3.4	11
73	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> , <b>2017</b> , 254, 1700103	1.3	11
72	Torsion of a Two-Phased Composite Bar With Helical Distribution of Constituents. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700050	1.3	21
71	The Elastic Uniaxial Properties of a Center Symmetric Honeycomb with Curved Cell Walls: Effect of Density and Curvature. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600818	1.3	9
70	In-plane elasticity of a novel auxetic honeycomb design. <i>Composites Part B: Engineering</i> , <b>2017</b> , 110, 72-82	10	82
69	The Isotropic and Cubic Material Designs. Recovery of the Underlying Microstructures Appearing in the Least Compliant Continuum Bodies. <i>Materials</i> , <b>2017</b> , 10,	3.5	13
68	Finite Element Analysis of Tunable Composite Tubes Reinforced with Auxetic Structures. <i>Materials</i> , <b>2017</b> , 10,	3.5	14
67	Computational Modelling of Structures with Non-Intuitive Behaviour. <i>Materials</i> , <b>2017</b> , 10,	3.5	29
66	A novel three-dimensional auxetic lattice meta-material with enhanced stiffness. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 105029	3.4	34

65	Giant Auxetic Behaviour in Engineered Graphene. <i>Annalen Der Physik</i> , <b>2018</b> , 530, 1700330	2.6	20
64	Exploiting negative Poisson's ratio to design 3D-printed composites with enhanced mechanical properties. <i>Materials and Design</i> , <b>2018</b> , 142, 247-258	8.1	139
63	Multi-objective crashworthiness optimization for an auxetic cylindrical structure under axial impact loading. <i>Materials and Design</i> , <b>2018</b> , 143, 120-130	8.1	64
62	Numerical Analysis of a Two-Dimensional Open Cell Topology with Tunable Poisson's Ratio from Positive to Negative. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1700374	2.5	16
61	Nonlinear dynamic response and vibration of sandwich composite plates with negative Poisson's ratio in auxetic honeycombs. <i>Journal of Sandwich Structures and Materials</i> , <b>2018</b> , 20, 692-717	2.1	82
60	Auxetic nail: Design and experimental study. <i>Composite Structures</i> , <b>2018</b> , 184, 288-298	5.3	77
59	Design and modeling of a combined embedded enhanced honeycomb with tunable mechanical properties. <i>Applied Composite Materials</i> , <b>2018</b> , 25, 1041-1055	2	11
58	A Novel Three-Dimensional Anti-Tetrachiral Honeycomb. <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 256, 1800473	1.3	6
57	Axisymmetric auxetics. <i>Composite Structures</i> , <b>2018</b> , 204, 438-444	5.3	22
56	Review of Auxetic Materials for Sports Applications: Expanding Options in Comfort and Protection. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 941	2.6	107
55	Thermoauxetic Behavior of Composite Structures. <i>Materials</i> , <b>2018</b> , 11,	3.5	30
54	Filtration Properties of Auxetics with Rotating Rigid Units. <i>Materials</i> , <b>2018</b> , 11,	3.5	8
53	Hard-particle rotation enabled soft-hard integrated auxetic mechanical metamaterials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2019</b> , 475, 20190234	2.4	8
52	A comprehensive review of selected biological armor systems [From structure-function to bio-mimetic techniques. <i>Composite Structures</i> , <b>2019</b> , 225, 111172	5.3	12
51	An Explicit Construction of the Underlying Laminated Microstructure of the Least Compliant Elastic Bodies. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1800039	1.3	4
50	Development of polymeric anepectic meshes: auxetic metamaterials with negative thermal expansion. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 045010	3.4	23
49	Effect of auxetic structures on crash behavior of cylindrical tube. <i>Composite Structures</i> , <b>2019</b> , 208, 836-846	5.3	39
48	Effective properties of layered auxetic hybrids. <i>Composite Structures</i> , <b>2019</b> , 209, 391-400	5.3	8

47	Enhanced Auxetic and Viscoelastic Properties of Filled Reentrant Honeycomb. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900184	1.3	14
46	Active control for ratios of strains in functionally graded piezoelectric composites. <i>Composite Structures</i> , <b>2020</b> , 236, 111861	5.3	1
45	Implementation of periodic boundary conditions for loading of mechanical metamaterials and other complex geometric microstructures using finite element analysis. <i>Engineering With Computers</i> , <b>2020</b> , 37, 1765	4.5	18
44	3D composite metamaterial with magnetic inclusions exhibiting negative stiffness and auxetic behaviour. <i>Materials and Design</i> , <b>2020</b> , 187, 108403	8.1	28
43	A Novel Mechanical Metamaterial Exhibiting Auxetic Behavior and Negative Compressibility. <i>Materials</i> , <b>2019</b> , 13,	3.5	20
42	Highly tailorable electromechanical properties of auxetic piezoelectric ceramics with ultra-low porosity. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 6330-6347	3.8	6
41	A Flexible Carbon Nanotubes-Based Auxetic Sponge Electrode for Strain Sensors. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
40	Recovery of the Auxetic Microstructures Appearing in the Least Compliant Continuum Two-Dimensional Bodies. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900676	1.3	7
39	A Simple Methodology to Generate Metamaterials and Structures with Negative Poisson's Ratio. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 2000439	1.3	17
38	Phase contrast mediated switch of auxetic mechanism in composites of infilled re-entrant honeycomb microstructures. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 35, 100641	3.9	19
37	Maximum Stresses in Rectangular Auxetic Membranes. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 2000300	1.3	3
36	Validation of a Finite Element Modeling Process for Auxetic Structures under Impact. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900197	1.3	11
35	Latitude-and-longitude-inspired three-dimensional auxetic metamaterials. <i>Extreme Mechanics Letters</i> , <b>2021</b> , 42, 101142	3.9	6
34	Design of a Morphing Surface Using Auxetic Lattice Skin for Space-Reconfigurable Reflectors. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 55-67	0.9	
33	Rotating squares auxetic metamaterials with improved strain tolerance. <i>Smart Materials and Structures</i> , <b>2021</b> , 30, 035015	3.4	4
32	A perfect 2D auxetic sliding mechanism based on an Islamic geometric pattern. <i>Engineering Research Express</i> , <b>2021</b> , 3, 015025	0.9	8
31	Mathematical modeling of auxetic systems: bridging the gap between analytical models and observation. <b>2021</b> , 16,		2
30	Programmable mechanical metamaterials based on hierarchical rotating structures. <i>International Journal of Solids and Structures</i> , <b>2021</b> , 216, 145-155	3.1	6

29	Directional instability-driven strain-dependent 3D auxetic metamaterials. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 199, 106408	5.5	2
28	A novel type of tubular structure with auxeticity both in radial direction and wall thickness. <i>Thin-Walled Structures</i> , <b>2021</b> , 163, 107758	4.7	22
27	Auxetic Behaviour and Other Negative Thermo-Mechanical Properties from Rotating Rigid Units. <i>Physica Status Solidi - Rapid Research Letters</i> ,	2.5	4
26	Analytical Investigation on ElasticPlastic Deformation of Reentrant Honeycomb Structures. <i>AIAA Journal</i> , <b>2021</b> , 59, 3735-3747	2.1	
25	A comparison between rotating squares and anti-tetrachiral systems: Influence of ligaments on the multi-axial mechanical response. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110431	1.3	3
24	A novel combined auxetic tubular structure with enhanced tunable stiffness. <i>Composites Part B: Engineering</i> , <b>2021</b> , 226, 109303	10	17
23	Shear Deformation in a Class of Thick Hexagonal Plates. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700014	1.3	8
22	Additively manufactured AlSi10Mg inherently stable thin and thick-walled lattice with negative Poisson's ratio. <i>Composite Structures</i> , <b>2020</b> , 247, 112469	5.3	25
21	Porous Structures with Negative Poisson's Ratio using Pattern Transformation Triggered by Deformation. <i>Journal of the Computational Structural Engineering Institute of Korea</i> , <b>2017</b> , 30, 275-282	0.1	1
20	Mechanical properties of foam-filled auxetic circular tubes: Experimental and numerical study. <i>Thin-Walled Structures</i> , <b>2022</b> , 170, 108584	4.7	11
19	Space-reconfigurable reflector with auxetic lattice material. <i>AIP Advances</i> , <b>2022</b> , 12, 015101	1.5	
18	Three-dimensional composites with nearly isotropic negative Poisson's ratio by random inclusions: Experiments and finite element simulation. <i>Composites Science and Technology</i> , <b>2022</b> , 218, 109195	8.6	1
17	A novel auxetic chiral lattice composite: Experimental and numerical study. <i>Composite Structures</i> , <b>2022</b> , 282, 115043	5.3	16
16	Design 3D improved star-shaped honeycomb with different tip angles from 2D analytical star-shaped model. <i>Composite Structures</i> , <b>2022</b> , 283, 115154	5.3	4
15	Geometry reconfiguration of a reflector with an auxetic material surface. <b>2022</b> ,		
14	Mixed-mode multi-directional Poisson's ratio modulation in auxetic 3D lattice metamaterials. <i>Advanced Engineering Materials</i> ,	3.5	4
13	Modelling of Auxetic Woven Structures for Composite Reinforcement. <i>Textiles</i> , <b>2022</b> , 2, 1-15		0
12	Effects of Braid Angle and Material Modulus on the Negative Poisson's Ratio of Braided Auxetic Yarns. <i>Crystals</i> , <b>2022</b> , 12, 781	2.3	0

11	Computational Study of Non-Porous Auxetic Plates with Diamond Shape Inclusions. <i>Journal of Composites Science</i> , <b>2022</b> , 6, 192	3	0
10	Hydrogenated Graphene with Tunable Poisson's Ratio Using Machine Learning: Implication for Wearable Devices and Strain Sensors. <i>ACS Applied Nano Materials</i> ,	5.6	1
9	Surface Bending Resistance in Architected Nanoporous Metallic Materials. 2200339		0
8	Evaluation of the Orthotropic Behavior in an Auxetic Structure Based on a Novel Design Parameter of a Square Cell with Re-Entrant Struts. <b>2022</b> , 14, 4325		0
7	Quasi-Static Mechanical Properties of a Modified Auxetic Re-Entrant Honeycomb Metamaterial. 2200270		3
6	An Auxetic Metamaterial Based on Rotating and Nonrotating Rigid Units Inspired by an Aztec Geometric Pattern. 2200385		2
5	Investigating the effect of the relative humidity on the mechanics and dynamics of open cell polyurethane auxetic foams.		1
4	Auxetic Composite Laminates with Through-Thickness Negative Poisson's Ratio for Mitigating Low Velocity Impact Damage: A Numerical Study. <b>2022</b> , 15, 6963		1
3	An investigation of reconfigurable magneto-mechanical metamaterials.		1
2	Poisson's Ratio of f.c.c. Hard-Sphere Crystals with Cubic Supercells Containing Four Nanochannels Filled by Hard Spheres of Another Diameter. <b>2022</b> , 259, 2200464		2
1	Auxetic properties of a tangram-inspired metamaterial. <b>2023</b> , 5, 015063		0