

James N Grima-Cornish

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

257
citations

932766

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940134

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21
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docs citations

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194
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Mechanical Metamaterial Exhibiting Auxetic Behavior and Negative Compressibility. <i>Materials</i> , 2020, 13, 79.	1.3	31
2	Auxetic Behavior and Other Negative Thermomechanical Properties from Rotating Rigid Units. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	1.2	27
3	Giant Auxetic Behaviour in Engineered Graphene. <i>Annalen Der Physik</i> , 2018, 530, 1700330.	0.9	24
4	The Multidirectional Auxeticity and Negative Linear Compressibility of a 3D Mechanical Metamaterial. <i>Materials</i> , 2020, 13, 2193.	1.3	24
5	On the Structural and Mechanical Properties of Poly(Phenylacetylene) Truss-Like Hexagonal Hierarchical Nanonetworks. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700190.	0.7	21
6	On the Compressibility Properties of the Wine-Rack-Like Carbon Allotropes and Related Poly(phenylacetylene) Systems. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800572.	0.7	20
7	On the Mechanical Properties of Graphyne, Graphdiyne, and Other Poly(Phenylacetylene) Networks. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700380.	0.7	18
8	Smart Honeycomb Mechanical Metamaterials with Tunable Poisson's Ratios. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900707.	0.7	17
9	Extremely Non-Auxetic Behavior of a Typical Auxetic Microstructure Due to Its Material Properties. <i>Materials</i> , 2021, 14, 7837.	1.3	17
10	Negative Linear Compressibility and Auxeticity in Boron Arsenate. <i>Annalen Der Physik</i> , 2020, 532, 1900550.	0.9	14
11	Tuning the Mechanical Properties of the Anti-Tetrachiral System Using Nonuniform Ligament Thickness. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900507.	0.7	8
12	Shearing Deformations of β -Cristobalite-Like Boron Arsenate. <i>Symmetry</i> , 2021, 13, 977.	1.1	8
13	On the Behavior of β -Cristobalite-Like Boron Arsenate when Subjected to Uniaxial Loading in Its [001] Direction and the Implications on Its Negative Characteristics. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000326.	0.7	5
14	Blisters and Calluses from Rowing: Prevalence, Perceptions and Pain Tolerance. <i>Medicina (Lithuania)</i> , 2022, 58, 77.	0.8	5
15	On the Design of Multimaterial Honeycombs and Structures with T-Shaped Joints Having Tunable Thermal and Compressibility Properties. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900633.	0.7	4
16	Negative Mechanical Materials and Metamaterials: Giant Out-of-Plane Auxeticity from Multi-Dimensional Wine-Rack-like Motifs. <i>MRS Advances</i> , 2020, 5, 717-725.	0.5	4
17	Auxetic-Inspired Honeycomb Macrostructures With Anomalous Tailormade Thermal Expansion Properties Including Negative Heat-Shrinking Characteristics. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	4
18	A DFT-Based Quantitative and Geometric Analysis of the Effect of Pressure on Boron Arsenate. <i>Materials</i> , 2022, 15, 4858.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Tuning the Mechanical Properties of the Anti- π -Tetrachiral System Using Nonuniform Ligament Thickness. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2070039.	0.7	2