Anne Jung

List of Publications by Year
in descending order

68	749	516710 16	610901 24
papers	citations	h-index	g-index

72	72	72	408
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design Study for Multifunctional 3D Reâ€entrant Auxetics. Advanced Engineering Materials, 2022, 24, 2100816.	3.5	11
2	A method for determining the parameters in a rheological model for viscoelastic materials by minimizing Tikhonov functionals. , 2022, 30, 141-165.		2
3	Investigation of the Structural Coating Homogeneity in Openâ€Porous Nickel/Polyurethane Hybrid Foams Produced by Flowâ€Controlled Electrodeposition. Advanced Engineering Materials, 2022, 24, .	3.5	2
4	Analysis of an open foam generated from computerized tomography scans of physical foam samples. International Journal for Numerical Methods in Engineering, 2022, 123, 4267-4295.	2.8	1
5	Application of Ultraviolet (UV) Radiation and Fluorescence for DIC Measurements - Quality Improvement. Optics and Lasers in Engineering, 2022, 158, 107140.	3.8	3
6	Optimized design for modified auxetic structures based on a neural network approach. Materials Today Communications, 2022, 32, 103931.	1.9	3
7	Neural Networks for Structural Optimisation of Mechanical Metamaterials. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000238.	0.2	4
8	Hybrid Auxetic Structures: Structural Optimization and Mechanical Characterization. Advanced Engineering Materials, 2021, 23, 2001393.	3.5	29
9	Microstructural damage behaviour of Al foams. Acta Materialia, 2021, 208, 116739.	7.9	16
10	Ni/Al-Hybrid Cellular Foams: An Interface Study by Combination of 3D-Phase Morphology Imaging, Microbeam Fracture Mechanics and In Situ Synchrotron Stress Analysis. Materials, 2021, 14, 3473.	2.9	2
11	Numerical and experimental investigations of the electrodeposition process on open porous foams, determination of the parameter influence on the coating homogeneity. International Journal of Heat and Mass Transfer, 2021, 180, 121791.	4.8	8
12	Blast wave mitigation with galvanised polyurethane foam in a sandwich cladding. Shock Waves, 2021, 31, 525-540.	1.9	4
13	A microsphere-based material model for open cell metal foams. Continuum Mechanics and Thermodynamics, 2020, 32, 255-267.	2.2	13
14	Parameter identification for open cell aluminium foams using inverse calculation. Computers and Mathematics With Applications, 2020, 79, 2644-2654.	2.7	5
15	Multiscale microsphere modelling of open-cell metal foams enriched by statistical analysis of geometric parameters. Mechanics of Materials, 2020, 142, 103295.	3.2	9
16	Micro-tensile behavior of struts extracted from an aluminum foam. Materials Characterization, 2020, 166, 110456.	4.4	10
17	Micromechanical Characterisation of Ni/PU Hybrid Foams. Materials, 2020, 13, 3746.	2.9	1
18	Experimental investigation of initial yield surfaces of solid foams and their evolution under subsequent loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 791, 139762.	5.6	4

#	Article	IF	Citations
19	Investigation of Strainâ€Rate Effects in Ni/PU Hybrid Foams under Lowâ€Impact Velocities. Advanced Engineering Materials, 2020, 22, 1901589.	3.5	4
20	DIC Measurements on Single Struts of Ni/PU Hybrid Foamsâ€"Damage Behaviour During Three-Point Bending. Advanced Structured Materials, 2020, , 423-430.	0.5	1
21	Development of a simulation model for the automatic optimization of tools for tube embossing. CIRP Journal of Manufacturing Science and Technology, 2019, 26, 50-69.	4.5	1
22	Effect of Pretreatment on Interface Stability and Morphology of Ni/Al Hybrid Foams by in situ Microcantilever Fracture Experiment. Procedia Structural Integrity, 2019, 17, 206-213.	0.8	1
23	Multiaxial failure surface of PVC foams and monitoring of deformation bands by three-dimensional digital image correlation. Journal of the Mechanics and Physics of Solids, 2019, 130, 195-215.	4.8	6
24	Micromechanical Characterization of Metal Foams. Advanced Engineering Materials, 2019, 21, 1900237.	3.5	19
25	Correlative digital image correlation and infrared thermography measurements for the investigation of the mesoscopic deformation behaviour of foams. Journal of the Mechanics and Physics of Solids, 2019, 130, 165-180.	4.8	19
26	Improving DIC Accuracy in Experimental Setups. Advanced Engineering Materials, 2019, 21, 1900092.	3.5	13
27	Development of a simulation model for the automatic optimization of tools for multiâ€dimensional tube forming. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900185.	0.2	0
28	Noise reduction for DIC measurements. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900077.	0.2	1
29	Modelling of cellular materials by a microsphereâ€based material model. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900081.	0.2	0
30	Investigation of the Electrodeposition Parameters on the Coating Process on Open Porous Media. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900106.	0.2	2
31	Experimental and numerical investigation of single pores for identification of effective metal foams properties. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 682-695.	1.6	22
32	Multiscale characterisation and simulation of open cell metal foams. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800211.	0.2	5
33	Inâ€situ and exâ€situ micro mechanical testing of openâ€cell metal foams. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800213.	0.2	1
34	Modelling and Simulation of the Coating Process on Open Porous Metal Foams. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800254.	0.2	2
35	Thermographic investigation of strain rate effects in Al foams and Ni/Al hybrid foams. Materials and Design, 2018, 160, 363-370.	7.0	11
36	Yield surfaces for solid foams: A review on experimental characterization and modeling. GAMM Mitteilungen, 2018, 41, e201800002.	5.5	13

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37	In-situ and ex-situ microtensile testing of individual struts of Al foams and Ni/Al hybrid foams. Materials and Design, 2018, 153, 104-119.	7.0	27
38	Microstructural characterisation and experimental determination of a multiaxial yield surface for open-cell aluminium foams. Materials and Design, 2017, 131, 252-264.	7.0	44
39	Investigation of strain-rate effects in Al foams and Ni/Al hybrid foams on different scales. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 317-318.	0.2	1
40	Synthesis and Mechanical Properties of Novel Ni/PU Hybrid Foams: A New Economic Composite Material for Energy Absorbers. Advanced Engineering Materials, 2016, 18, 532-541.	3.5	20
41	Thermoâ€mechanically coupled modelling of cellular MgOâ€C refractories under thermal shock. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 429-430.	0.2	0
42	Experimental and numerical investigation of metal foams undergoing large deformations. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 345-346.	0.2	1
43	Dual-energy X-ray micro-CT imaging of hybrid Ni/Al open-cell foam. Journal of Instrumentation, 2016, 11, C01005-C01005.	1.2	12
44	Identification of strain fields in pure Al and hybrid Ni/Al metal foams using X-ray micro-tomography under loading. Journal of Instrumentation, 2016, 11, C11017-C11017.	1.2	4
45	Modelling of metal foams by a modified elastic law. Mechanics of Materials, 2016, 101, 61-70.	3.2	10
46	Strain-rate effects in Ni/Al composite metal foams from quasi-static to low-velocity impact behaviour. Composites Part A: Applied Science and Manufacturing, 2016, 85, 1-11.	7.6	32
47	Replication of microstructured tools for electrochemical machining applications. International Journal of Advanced Manufacturing Technology, 2016, 82, 197-209.	3.0	4
48	Micromechanical characterisation of Ni/Al hybrid foams by nano- and microindentation coupled with EBSD. Acta Materialia, 2016, 102, 38-48.	7.9	37
49	Numerical analysis of Ni/Al hybrid metal foams using the finite cell method. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 299-300.	0.2	1
50	Thermo-mechanical modelling of cellular ceramic composites by a multiphase approach of porous media. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 393-394.	0.2	1
51	Strain-rate dependence for Ni/Al hybrid foams. EPJ Web of Conferences, 2015, 94, 04030.	0.3	2
52	Characterization of Ni/Al hybrid foam from atomic to microscale. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 283-284.	0.2	1
53	Thermal shock resistivity of hybrid carbon foam materials: Experiments and model predictions. Mechanics of Materials, 2015, 82, 13-27.	3.2	6
54	Micro-structural motivated phenomenological modelling of metal foams: experiments and modelling. Archive of Applied Mechanics, 2015, 85, 1147-1160.	2.2	10

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55	Protective Performance of Hybrid Metal Foams as MMOD Shields. Procedia Engineering, 2015, 103, 294-301.	1.2	21
56	Open-cell aluminium foams with graded coatings as passively controllable energy absorbers. Materials and Design, 2015, 87, 36-41.	7.0	31
57	Microtensile testing of open-cell metal foams â€" Experimental setup, micromechanical properties. Materials and Design, 2015, 88, 1021-1030.	7.0	31
58	Experiments, modeling and simulation of the magnetic behavior of inhomogeneously coated nickel/aluminum hybrid foams. Journal of Magnetism and Magnetic Materials, 2015, 378, 178-185.	2.3	7
59	Thermo-mechanical modelling of cellular hybrid refractories. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 459-460.	0.2	2
60	Microstructural Analysis of Electrochemical Coated Openâ€Cell Metal Foams by <scp>EBSD</scp> and Nanoindentation. Advanced Engineering Materials, 2014, 16, 15-20.	3.5	27
61	New hybrid foam materials for impact protection. International Journal of Impact Engineering, 2014, 64, 30-38.	5.0	55
62	A microscopically motivated continuum model for cellular materials. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 421-422.	0.2	0
63	Magnetic field-assisted electroforming of complex geometries. Journal of Solid State Electrochemistry, 2013, 17, 2721-2729.	2.5	10
64	Nanonickel Coated Aluminum Foam for Enhanced Impact Energy Absorption. Advanced Engineering Materials, 2011, 13, 23-28.	3.5	60
65	Electrodeposition of Nanocrystalline Metals on Open Cell Metal Foams: Improved Mechanical Properties. ECS Transactions, 2010, 25, 165-172.	0.5	20
66	Study of the magnetic flux density distribution of nickel coated aluminum foams. Journal of Physics: Conference Series, 2010, 200, 082011.	0.4	7
67	TESTING OF HYBRID NICKEL-POLYURETHANE FOAMS AT HIGH STRAIN-RATES USING HOPKINSON BAR AND DIGITAL IMAGE CORRELATION. Acta Polytechnica CTU Proceedings, 0, 18, 72.	0.3	7
68	High strainâ€rate compression experiments on Ni/PU hybrid metal foams using the splitâ€Hopkinson pressure bar technique. Advanced Engineering Materials, 0, , 2100872.	3.5	3