Isabel Duarte

List of Publications by Citations

49 papers	1,513 citations	19 h-index	38 g-index
53 ext. papers	1,821 ext. citations	4 avg, IF	5.09 L-index

#	Paper	IF	Citations
49	A study of aluminium foam formation Kinetics and microstructure. *Acta Materialia*, **2000**, 48, 2349-2362	8.4	224
48	Dynamic and quasi-static bending behaviour of thin-walled aluminium tubes filled with aluminium foam. *Composite Structures*, **2014**, 109, 48-56	5.3	112
47	Static and dynamic axial crush performance of in-situ foam-filled tubes. *Composite Structures*, **2015**, 124, 128-139	5.3	99
46	Manufacturing and bending behaviour of in situ foam-filled aluminium alloy tubes. *Materials & Design*, **2015**, 66, 532-544		78
45	Composite and Nanocomposite Metal Foams. *Materials*, **2016**, 9,	3.5	75
44	Characterisation of aluminium alloy tubes filled with aluminium alloy integral-skin foam under axial compressive loads. *Composite Structures*, **2015**, 121, 154-162	5.3	63
43	A novel approach to prepare aluminium-alloy foams reinforced by carbon-nanotubes. *Materials Letters*, **2015**, 160, 162-166	3.3	51
42	Variation of quasi-static and dynamic compressive properties in a single aluminium foam block. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2014**, 616, 171-182	5.3	44
41	Compressive behaviour of unconstrained and constrained integral-skin closed-cell aluminium foam. *Composite Structures*, **2016**, 154, 231-238	5.3	43
40	Axial crush behaviour of the aluminium alloy in-situ foam filled tubes with very low wall thickness. *Composite Structures*, **2018**, 192, 184-192	5.3	42
39	An effective approach to reinforced closed-cell Al-alloy foams with multiwalled carbon nanotubes. *Carbon*, **2015**, 95, 589-600	10.4	40
38	Compressive performance evaluation of APM (Advanced Pore Morphology) foam filled tubes. *Composite Structures*, **2015**, 134, 409-420	5.3	38
37	Axial crush performance of polymer-aluminium alloy hybrid foam filled tubes. *Thin-Walled Structures*, **2019**, 138, 124-136	4.7	36
36	Crush performance of multifunctional hybrid foams based on an aluminium alloy open-cell foam skeleton. *Polymer Testing*, **2018**, 67, 246-256	4.5	31
35	Failure Modes and Influence of the Quasi-static Deformation Rate on the Mechanical Behavior of Sandwich Panels with Aluminum Foam Cores. *Mechanics of Advanced Materials and Structures*, **2010**, 17, 335-342	1.8	27
34	Bending performance evaluation of aluminium alloy tubes filled with different cellular metal cores. *Composite Structures*, **2020**, 234, 111748	5.3	25
33	Foaming of AA 6061 using multiple pieces of foamable precursor. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 438, 47-55	5.1	24

32	Bacterial cellulose/graphene oxide aerogels with enhanced dimensional and thermal stability. *Carbohydrate Polymers*, **2020**, 230, 115598	10.3	24
31	Infrared Thermography as a Method for Energy Absorption Evaluation of Metal Foams. *Materials Today: Proceedings*, **2016**, 3, 1025-1030	1.4	17
30	2D Quantitative Analysis of Metal Foaming Kinetics by Hot-Stage Microscopy. *Advanced Engineering Materials*, **2014**, 16, 33-39	3.5	16
29	Automated Continuous Production Line of Parts Made of Metallic Foams. *Metals*, **2019**, 9, 531	2.3	15
28	Characterization and physical properties of aluminium foam□polydimethylsiloxane nanocomposite hybrid structures. *Composite Structures*, **2019**, 230, 111521	5.3	14
27	Special Issue on Cellular Materials. *Science and Technology of Materials*, **2018**, 30, 1-3		13
26	Properties of metal foams **2000**, 40-54		13
25	Analysis of performance of in-situ carbon steel bar reinforced Al-alloy foams. *Composite Structures*, **2016**, 152, 432-443	5.3	12
24	Compressive Behaviour of Closed-Cell Aluminium Foam at Different Strain Rates. *Materials*, **2019**, 12,	3.5	10
23	Multifunctional hybrid structures made of open-cell aluminum foam impregnated with cellulose/graphene nanocomposites. *Carbohydrate Polymers*, **2020**, 238, 116197	10.3	9
22	Detailed Analysis of Closed-Cell Aluminum Alloy Foam Internal Structure Changes during Compressive Deformation. *Advanced Engineering Materials*, **2018**, 20, 1800164	3.5	9
21	Low cycle fatigue behaviour of closed-cell aluminium foam. *Mechanics of Materials*, **2019**, 133, 165-173	3.3	8
20	Hybrid Structures Made of Polyurethane/Graphene Nanocomposite Foams Embedded within Aluminum Open-Cell Foam. *Metals*, **2020**, 10, 768	2.3	8
19	Mechanical, Thermal, and Acoustic Properties of Aluminum Foams Impregnated with Epoxy/Graphene Oxide Nanocomposites. *Metals*, **2019**, 9, 1214	2.3	8
18	Der Schäumprozeß von Aluminium. *Materialwissenschaft Und Werkstofftechnik*, **2000**, 31, 409-411	0.9	7
17	Aluminium Alloy Foams: Production and Properties **2012**,		6
16	Foaming around Fastening Elements. *Materials Science Forum*, **2006**, 514-516, 712-717	0.4	6
15	Dynamic penetration of cellular solids: Experimental investigation using Hopkinson bar and computed tomography. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 800, 140096	5.3	6

14	Brief Review on Experimental and Computational Techniques for Characterization of Cellular Metals. *Metals*, **2020**, 10, 726	2.3	5
13	The detection of plastic flow propagation based on the temperature gradient. *Materials Today: Proceedings*, **2017**, 4, 5925-5930	1.4	5
12	Variation of Quasi-static and Dynamic Compressive Properties in Single Aluminium-alloy Foam Block **2014**, 4, 157-162		4
11	Organic acid cross-linked 3D printed cellulose nanocomposite bioscaffolds with controlled porosity, mechanical strength, and biocompatibility.. *IScience*, **2022**, 25, 104263	6.1	4
10	A new class of closed-cell aluminium foams reinforced with carbon nanotubes. *Ciência & Tecnologia Dos Materiais*, **2016**, 28, 5-8		3
9	Dynamic compressive behaviour of aluminium foams fabricated from rejected precursor materials. *Ciência & Tecnologia Dos Materiais*, **2016**, 28, 19-22		2
8	Modelling and effective properties prediction of metal foams. *Science and Technology of Materials*, **2018**, 30, 43-49		2
7	Evolution of Metallic Foams Using Hot-stage Microscopy **2014**, 4, 251-256		2
6	The Evolution of Morphology and Kinetics during the Foaming Process of Aluminium Foams. *Key Engineering Materials*, **2002**, 230-232, 96-101	0.4	2
5	Aluminium Alloy Foam Modelling and Prediction of Elastic Properties Using X-ray Microcomputed Tomography. *Metals*, **2021**, 11, 925	2.3	2
4	Influence of Process Parameters on the Expansion Behaviour of Aluminium Foams **2006**, 14-21		1
3	3D-printed multisampling holder for microcomputed tomography applied to life and materials science research. *Micron*, **2021**, 150, 103142	2.3	1
2	Crush performance of foam filled tubular structures made of aluminium alloys at different loading conditions. *International Journal of Automotive Composites*, **2017**, 3, 127	0.3	
1	The Influence of Precipitation Hardening on the Damping Capacity in AlSiMg Cast Components at Different Strain Amplitudes. *Metals*, **2022**, 12, 804	2.3	