Guilhem Martin

List of Publications by Year
in descending order

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36 papers	1,632 citations	394421 19 h-index	345221 36 g-index
36 all docs	36 docs citations	36 times ranked	1323 citing authors

#	Article	IF	Citations
1	Stabilizing post-yielding behavior of a stretching dominated lattice structure through microstructural optimization. Scripta Materialia, 2022, 219, 114887.	5.2	3
2	A novel laser powder bed fusion Al-Fe-Zr alloy for superior strength-conductivity trade-off. Scripta Materialia, 2022, 219, 114878.	5.2	22
3	Tailoring the crystallographic texture of pure copper through control of the scanning strategy in Electron Powder Bed Fusion. Materialia, 2022, 24, 101495.	2.7	1
4	Behavior by design made possible by additive manufacturing: The case of a whistle-blower mechanical response. Materials Letters, 2021, 282, 128669.	2.6	2
5	Cracking mechanism and its sensitivity to processing conditions during laser powder bed fusion of a structural aluminum alloy. Materialia, 2021, 15, 100976.	2.7	35
6	In-situ layerwise monitoring of electron beam powder bed fusion using near-infrared imaging. Additive Manufacturing, 2021, 38, 101767.	3.0	5
7	Multi-scale microstuctural investigation of a new Al-Mn-Ni-Cu-Zr aluminium alloy processed by laser powder bed fusion. Materialia, 2021, 18, 101160.	2.7	18
8	On the role of boron, carbon and zirconium on hot cracking and creep resistance of an additively manufactured polycrystalline superalloy. Materialia, 2021, 19, 101193.	2.7	27
9	Revealing the true partitioning character of zirconium in additively manufactured polycrystalline superalloys. Additive Manufacturing Letters, 2021, 1, 100011.	2.1	2
10	Effect of the build orientation on mechanical and electrical properties of pure Cu fabricated by E-PBF. Additive Manufacturing, 2021, 48, 102393.	3.0	2
11	Surface Defects Sensitivity during the Unfolding of Corrugated Struts Made by Powderâ€Bed Additive Manufacturing. Advanced Engineering Materials, 2020, 22, 2000315.	3.5	4
12	In situ 3D X-ray microtomography of laser-based powder-bed fusion (L-PBF)â€”A feasibility study. Additive Manufacturing, 2020, 34, 101271.	3.0	13
13	A numerical framework to predict the fatigue life of lattice structures built by additive manufacturing. International Journal of Fatigue, 2020, 139, 105769.	5.7	24
14	Fatigue performances of chemically etched thin struts built by selective electron beam melting: Experiments and predictions. Materialia, 2020, 9, 100589.	2.7	41
15	Effect of temperature on deformation mechanisms of AZ31 Mg-alloy under tensile loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 775, 138957.	5.6	9
16	Atomic-scale grain boundary engineering to overcome hot-cracking in additively-manufactured superalloys. Acta Materialia, 2019, 177, 209-221.	7.9	165
17	Effect of ultrasonic shot peening on the surface defects of thin struts built by electron beam melting: Consequences on fatigue resistance. Additive Manufacturing, 2019, 28, 821-830.	3.0	20
18	Tracking pores during solidification of a Ni-based superalloy using 4D synchrotron microtomography. Acta Materialia, 2019, 181, 1-9.	7.9	29

#	Article	IF	Citations
19	Effect of build orientation on the fatigue properties of as-built Electron Beam Melted Ti-6Al-4V alloy. International Journal of Fatigue, 2019, 118, 65-76.	5.7	94
20	Deformation behavior of lean duplex stainless steels with strain induced martensitic transformation: Role of deformation mechanisms, alloy chemistry and predeformation. Materialia, 2019, 5, 100190.	2.7	13
21	Micromechanical behavior and thermal stability of a dual-phase Î±+Î±â€™ titanium alloy produced by additive manufacturing. Acta Materialia, 2019, 162, 149-162.	7.9	133
22	Producing Ni-base superalloys single crystal by selective electron beam melting. Scripta Materialia, 2018, 152, 15-19.	5.2	97
23	Enhancing the tensile properties of EBM as-built thin parts: Effect of HIP and chemical etching. Materials Characterization, 2018, 143, 82-93.	4.4	55
24	Hot cracking mechanism affecting a non-weldable Ni-based superalloy produced by selective electron Beam Melting. Acta Materialia, 2018, 142, 82-94.	7.9	344
25	Influence of the Martensitic Transformation on the Microscale Plastic Strain Heterogeneities in a Duplex Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 20-25.	2.2	8
26	Lighter structures for transports: The role of innovation in metallurgy. Comptes Rendus Physique, 2017, 18, 445-452.	0.9	6
27	A strategy to improve the work-hardening behavior of Tiâ€“6Alâ€“4V parts produced by additive manufacturing. Materials Research Letters, 2017, 5, 201-208.	8.7	93
28	Fatigue properties of EBM as-built and chemically etched thin parts. Procedia Structural Integrity, 2017, 7, 158-165.	0.8	29
29	Improving the mechanical efficiency of electron beam melted titanium lattice structures by chemical etching. Additive Manufacturing, 2016, 11, 71-76.	3.0	74
30	Heterogeneities in local plastic flow behavior in a dissimilar weld between low-alloy steel and stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 156-170.	5.6	19
31	Geometrical control of lattice structures produced by EBM through chemical etching: Investigations at the scale of individual struts. Materials and Design, 2016, 110, 485-493.	7.0	73
32	Local Plastic-Strain Heterogeneities and Their Impact on the Ductility of Mg. Jom, 2015, 67, 1761-1773.	1.9	13
33	Combined Use of DIC, EBSD and Simulation to Understand the Microscale Plastic Strain Distribution in Mg Alloys. Microscopy and Microanalysis, 2014, 20, 1462-1463.	0.4	1
34	Microscale plastic strain heterogeneity in slip dominated deformation of magnesium alloy containing rare earth. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 603, 37-51.	5.6	63
35	Plastic strain heterogeneities in an Mgâ€“1Znâ€“0.5Nd alloy. Scripta Materialia, 2013, 68, 695-698.	5.2	51
36	A macro- and micromechanics investigation of hot cracking in duplex steels. Acta Materialia, 2012, 60, 4646-4660.	7.9	44