

Guilhem Martin

List of Publications by Year in descending order

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36
papers

1,632
citations

394421

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docs citations

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times ranked

1323
citing authors

#	ARTICLE	IF	CITATIONS
1	Hot cracking mechanism affecting a non-weldable Ni-based superalloy produced by selective electron Beam Melting. <i>Acta Materialia</i> , 2018, 142, 82-94.	7.9	344
2	Atomic-scale grain boundary engineering to overcome hot-cracking in additively-manufactured superalloys. <i>Acta Materialia</i> , 2019, 177, 209-221.	7.9	165
3	Micromechanical behavior and thermal stability of a dual-phase β - α titanium alloy produced by additive manufacturing. <i>Acta Materialia</i> , 2019, 162, 149-162.	7.9	133
4	Producing Ni-base superalloys single crystal by selective electron beam melting. <i>Scripta Materialia</i> , 2018, 152, 15-19.	5.2	97
5	Effect of build orientation on the fatigue properties of as-built Electron Beam Melted Ti-6Al-4V alloy. <i>International Journal of Fatigue</i> , 2019, 118, 65-76.	5.7	94
6	A strategy to improve the work-hardening behavior of Ti-6Al-4V parts produced by additive manufacturing. <i>Materials Research Letters</i> , 2017, 5, 201-208.	8.7	93
7	Improving the mechanical efficiency of electron beam melted titanium lattice structures by chemical etching. <i>Additive Manufacturing</i> , 2016, 11, 71-76.	3.0	74
8	Geometrical control of lattice structures produced by EBM through chemical etching: Investigations at the scale of individual struts. <i>Materials and Design</i> , 2016, 110, 485-493.	7.0	73
9	Microscale plastic strain heterogeneity in slip dominated deformation of magnesium alloy containing rare earth. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 603, 37-51.	5.6	63
10	Enhancing the tensile properties of EBM as-built thin parts: Effect of HIP and chemical etching. <i>Materials Characterization</i> , 2018, 143, 82-93.	4.4	55
11	Plastic strain heterogeneities in an Mg-1Zn-0.5Nd alloy. <i>Scripta Materialia</i> , 2013, 68, 695-698.	5.2	51
12	A macro- and micromechanics investigation of hot cracking in duplex steels. <i>Acta Materialia</i> , 2012, 60, 4646-4660.	7.9	44
13	Fatigue performances of chemically etched thin struts built by selective electron beam melting: Experiments and predictions. <i>Materialia</i> , 2020, 9, 100589.	2.7	41
14	Cracking mechanism and its sensitivity to processing conditions during laser powder bed fusion of a structural aluminum alloy. <i>Materialia</i> , 2021, 15, 100976.	2.7	35
15	Fatigue properties of EBM as-built and chemically etched thin parts. <i>Procedia Structural Integrity</i> , 2017, 7, 158-165.	0.8	29
16	Tracking pores during solidification of a Ni-based superalloy using 4D synchrotron microtomography. <i>Acta Materialia</i> , 2019, 181, 1-9.	7.9	29
17	On the role of boron, carbon and zirconium on hot cracking and creep resistance of an additively manufactured polycrystalline superalloy. <i>Materialia</i> , 2021, 19, 101193.	2.7	27
18	A numerical framework to predict the fatigue life of lattice structures built by additive manufacturing. <i>International Journal of Fatigue</i> , 2020, 139, 105769.	5.7	24

#	ARTICLE	IF	CITATIONS
19	A novel laser powder bed fusion Al-Fe-Zr alloy for superior strength-conductivity trade-off. <i>Scripta Materialia</i> , 2022, 219, 114878.	5.2	22
20	Effect of ultrasonic shot peening on the surface defects of thin struts built by electron beam melting: Consequences on fatigue resistance. <i>Additive Manufacturing</i> , 2019, 28, 821-830.	3.0	20
21	Heterogeneities in local plastic flow behavior in a dissimilar weld between low-alloy steel and stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 667, 156-170.	5.6	19
22	Multi-scale microstructural investigation of a new Al-Mn-Ni-Cu-Zr aluminium alloy processed by laser powder bed fusion. <i>Materialia</i> , 2021, 18, 101160.	2.7	18
23	Local Plastic-Strain Heterogeneities and Their Impact on the Ductility of Mg. <i>Jom</i> , 2015, 67, 1761-1773.	1.9	13
24	Deformation behavior of lean duplex stainless steels with strain induced martensitic transformation: Role of deformation mechanisms, alloy chemistry and predeformation. <i>Materialia</i> , 2019, 5, 100190.	2.7	13
25	In situ 3D X-ray microtomography of laser-based powder-bed fusion (L-PBF) – A feasibility study. <i>Additive Manufacturing</i> , 2020, 34, 101271.	3.0	13
26	Effect of temperature on deformation mechanisms of AZ31 Mg-alloy under tensile loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 775, 138957.	5.6	9
27	Influence of the Martensitic Transformation on the Microscale Plastic Strain Heterogeneities in a Duplex Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 20-25.	2.2	8
28	Lighter structures for transports: The role of innovation in metallurgy. <i>Comptes Rendus Physique</i> , 2017, 18, 445-452.	0.9	6
29	In-situ layerwise monitoring of electron beam powder bed fusion using near-infrared imaging. <i>Additive Manufacturing</i> , 2021, 38, 101767.	3.0	5
30	Surface Defects Sensitivity during the Unfolding of Corrugated Struts Made by Powder-Bed Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2020, 22, 2000315.	3.5	4
31	Stabilizing post-yielding behavior of a stretching dominated lattice structure through microstructural optimization. <i>Scripta Materialia</i> , 2022, 219, 114887.	5.2	3
32	Behavior by design made possible by additive manufacturing: The case of a whistle-blower mechanical response. <i>Materials Letters</i> , 2021, 282, 128669.	2.6	2
33	Revealing the true partitioning character of zirconium in additively manufactured polycrystalline superalloys. <i>Additive Manufacturing Letters</i> , 2021, 1, 100011.	2.1	2
34	Effect of the build orientation on mechanical and electrical properties of pure Cu fabricated by E-PBF. <i>Additive Manufacturing</i> , 2021, 48, 102393.	3.0	2
35	Combined Use of DIC, EBSD and Simulation to Understand the Microscale Plastic Strain Distribution in Mg Alloys. <i>Microscopy and Microanalysis</i> , 2014, 20, 1462-1463.	0.4	1
36	Tailoring the crystallographic texture of pure copper through control of the scanning strategy in Electron Powder Bed Fusion. <i>Materialia</i> , 2022, 24, 101495.	2.7	1