Alain Couret

List of Publications by Year
in descending order

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29	1,035	430874	526287
papers	citations	18 h-index	27 g-index

29	29	29	605
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In-situ observation of the phase evolution during an electromagnetic-assisted sintering experiment of an intermetallic Î³-TiAl based alloy. Scripta Materialia, 2022, 206, 114233.	5.2	14
2	Microstructure characterization of high temperature mechanisms in a Nbâ€“Tiâ€“Si alloy. Intermetallics, 2022, 144, 107509.	3.9	4
3	How Si affects the microstructural evolution and phase transformations of intermetallic Î³-TiAl based alloys. Materialia, 2022, 24, 101475.	2.7	3
4	Elaboration of Metallic Materials by SPS: Processing, Microstructures, Properties, and Shaping. Metals, 2021, 11, 322.	2.3	14
5	Chemical heterogeneities in tungsten containing TiAl alloys processed by powder metallurgy. Materialia, 2021, 18, 101147.	2.7	7
6	Effects of tungsten alloying and fluorination on the oxidation behavior of intermetallic titanium aluminides for aerospace applications. Intermetallics, 2021, 139, 107270.	3.9	20
7	Effect of ageing on the properties of the W-containing IRIS-TiAl alloy. Acta Materialia, 2020, 199, 169-180.	7.9	21
8	On the high creep strength of the W containing IRIS-TiAl alloy at 850â€Â°C. Acta Materialia, 2019, 181, 331-341.	7.9	33
9	Near-Net Shaping of Titanium-Aluminum Jet Engine Turbine Blades by SPS. , 2019, , 713-737.		4
10	Pure climb of [001] dislocations in TiAl at 850 Â°C. Scripta Materialia, 2018, 149, 53-57.	5.2	9
11	Study of the low cyclic behaviour of the IRIS alloy at high temperature. MATEC Web of Conferences, 2018, 165, 06007.	0.2	1
12	Development of a TiAl Alloy by Spark Plasma Sintering. Jom, 2017, 69, 2576-2582.	1.9	26
13	High Creep Resistance of Titanium Aluminides Sintered by SPS. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 17-22.	0.5	0
14	Deformation modes and size effect in near-Î³ TiAl alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 679, 123-132.	5.6	30
15	Mechanical Properties of the TiAl IRIS Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 6097-6108.	2.2	28
16	Spark plasma sintering mechanisms at the necks between TiAl powder particles. Acta Materialia, 2016, 118, 100-108.	7.9	83
17	Obtaining of a fine near-lamellar microstructure in TiAl alloys by Spark Plasma Sintering. Intermetallics, 2016, 71, 88-97.	3.9	29
18	An Innovative Way to Produce Î³â€TiAl Blades: Spark Plasma Sintering. Advanced Engineering Materials, 2015, 17, 1408-1413.	3.5	61

#	Article	IF	Citations
19	Microstructures and mechanical properties of a multi-phase Î²-solidifying TiAl alloy densified by spark plasma sintering. Acta Materialia, 2014, 73, 107-115.	7.9	95
20	Improvement of the creep properties of TiAl alloys densified by Spark Plasma Sintering. Intermetallics, 2014, 46, 1-3.	3.9	31
21	Temperature control during Spark Plasma Sintering and application to up-scaling and complex shaping. Journal of Materials Processing Technology, 2013, 213, 269-278.	6.3	97
22	Identification of microstructural mechanisms during densification of a TiAl alloy by spark plasma sintering. Journal of Alloys and Compounds, 2011, 509, 9826-9835.	5.5	60
23	Î³-allotriomorphs precipitation and lamellar transformation in a TiAl-based alloy. Intermetallics, 2011, 19, 1627-1629.	3.9	8
24	A microscopic study of the creep of a cast TiAl alloy at 750Â°C under 150MPa. Scripta Materialia, 2011, 65, 198-201.	5.2	11
25	Microstructure and mechanical properties of high niobium containing TiAl alloys elaborated by spark plasma sintering. Intermetallics, 2010, 18, 2312-2321.	3.9	60
26	Microstructures and mechanical properties of TiAl alloys consolidated by spark plasma sintering. Intermetallics, 2008, 16, 1134-1141.	3.9	147
27	Phase transformations in TiAl based alloys. Acta Materialia, 2005, 53, 2653-2664.	7.9	93
28	Interpretation of the stress dependence of creep by a mixed climb mechanism in TiAl. Philosophical Magazine, 2004, 84, 3671-3687.	1.6	28
29	Glide mechanism of ordinary dislocations in the Î³ phase of TiAl. Intermetallics, 2001, 9, 899-906.	3.9	18