Vincent Velay

List of Publications by Year
in descending order

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28	567	687335 13	677123 22
papers	citations	h-index	g-index

29	29	29	448
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of grain size and crystallographic texture on tensile behavior induced by sliding mechanism in Ti-6Al-4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 774, 138835.	5.6	31
2	Influence of strain rate and temperature on the deformation mechanisms of a fine-grained Ti-6Al-4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 790, 139718.	5.6	14
3	Experimental Analysis and Behaviour Modelling of the Deformation Mechanisms of a Ti-6242S Alloy under Hot and Superplastic Forming Conditions. Metals, 2020, 10, 1599.	2.3	3
4	Experimental study of the superplastic and hot deformation mechanisms of a Ti-6Al-2Sn-4Zr-2Mo Titanium Alloy. MATEC Web of Conferences, 2020, 321, 11023.	0.2	0
5	Superplasticity of metastable ultrafine-grained Ti 6242S alloy: Mechanical flow behavior and microstructural evolution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 569-580.	5.6	27
6	Mechanical behaviour modelling and finite element simulation of simple part of Ti-6Al-4V sheet under hot/warm stamping conditions. Journal of Manufacturing Processes, 2019, 38, 472-482.	5.9	23
7	Superplastic Property of the Tiâ€“6Alâ€“4V Alloy with Ultrafineâ€Grained Heterogeneous Microstructure. Advanced Engineering Materials, 2018, 20, 1700317.	3.5	15
8	Finite element modelling of cold drawing for high-precision tubes. Comptes Rendus - Mecanique, 2018, 346, 665-677.	2.1	29
9	Superplasticity in Fine Grain Ti-6Al-4V Alloy: Mechanical Behavior and Microstructural Evolution. Defect and Diffusion Forum, 2018, 385, 137-143.	0.4	4
10	Mesoscale modeling of dynamic recrystallization behavior, grain size evolution, dislocation density, processing map characteristic, and room temperature strength of Ti-6Al-4V alloy forged in the (Î±+Î²) region. Journal of Alloys and Compounds, 2017, 708, 404-413.	5.5	62
11	Hot Forming Process Analysis of Ti6Al-4V Alloy: Experiment, Behaviour Modelling and Finite Element Simulation. Materials Science Forum, 2016, 838-839, 183-189.	0.3	1
12	Flow behavior and microstructure in Tiâ€“6Alâ€“4V alloy with an ultrafine-grained Î±-single phase microstructure during low-temperature-high-strain-rate superplasticity. Materials & Design, 2015, 66, 611-617.	5.1	38
13	Influence of the quenching rate and step-wise cooling temperatures on microstructural and tensile properties of PER72 Â® Ni-based superalloy. MATEC Web of Conferences, 2014, 14, 21002.	0.2	1
14	Characterisation of the transverse mechanical properties of carbon/carbon composites by spherical indentation. Carbon, 2014, 66, 234-245.	10.3	15
15	Multi-scale modelling of AISI H11 martensitic tool steel surface anisotropic mechanical behaviour. MATEC Web of Conferences, 2014, 12, 04018.	0.2	0
16	Identification of hardening parameters using finite element models and full-field measurements: some case studies. Journal of Strain Analysis for Engineering Design, 2012, 47, 3-17.	1.8	16
17	Multiple-Camera Instrumentation of a Single Point Incremental Forming Process Pilot for Shape and 3D Displacement Measurements: Methodology and Results. Experimental Mechanics, 2011, 51, 625-639.	2.0	75
18	Heat Resistant Ni-Cr-Fe Steels for Superplastic Forming Dies: From Material Microstructure to Die Design. Key Engineering Materials, 2010, 433, 77-84.	0.4	1

#	ARTICLE	IF	CITATIONS
19	A microstructural and low-cycle fatigue investigation of weld-repaired heat-resistant cast steels. Journal of Materials Processing Technology, 2009, 209, 944-953.	6.3	18
20	Numerical life prediction of mechanical fatigue for hot forging tools. International Journal of Material Forming, 2009, 2, 129-132.	2.0	7
21	Optimization of preform temperature distribution for the stretchâ€blow molding of PET bottles: Infrared heating and blowing modeling. Polymer Engineering and Science, 2009, 49, 783-793.	3.1	58
22	Behaviour modelling of aluminium alloy sheet for single point incremental forming. International Journal of Material Forming, 2008, 1, 1151-1154.	2.0	7
23	Cyclic behavior modeling of a tempered martensitic hot work tool steel. International Journal of Plasticity, 2006, 22, 459-496.	8.8	91
24	A continuum damage model applied to high-temperature fatigue lifetime prediction of a martensitic tool steel. Fatigue and Fracture of Engineering Materials and Structures, 2005, 28, 1009-1023.	3.4	20
25	Advances in Cyclic Behavior and Lifetime Modeling of Tempered Martensitic Steels Based on Microstructural Considerations. Key Engineering Materials, 0, 378-379, 81-100.	0.4	2
26	High Temperature Fatigue of SPF Die Ni-Cr-Fe Heat Resistant Nickel-Chromium Cast Steels. Key Engineering Materials, 0, 433, 69-76.	0.4	1
27	Thermo-Mechanical Modeling of Distortions Promoted during Cooling of Ti-6Al-4V Part Produced by Superplastic Forming. Materials Science Forum, 0, 838-839, 196-201.	0.3	0
28	Mechanical Behavior of Ti-6Al-2Sn-4Zr-2Mo Titanium Alloy under Hot and Superplastic Forming Conditions: Experiment and Modeling. Defect and Diffusion Forum, 0, 385, 413-418.	0.4	5