

Bertrand Langrand

List of Publications by Year in descending order

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32
papers

486
citations

777949

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33
all docs

33
docs citations

33
times ranked

308
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the application of fuselage skin reinforcements with beam element representations in flexible full aircraft models for ditching simulations. IOP Conference Series: Materials Science and Engineering, 2022, 1226, 012057.	0.3	0
2	Robustness of specimen design criteria for identification of anisotropic mechanical behaviour from heterogeneous mechanical fields. Computational Materials Science, 2022, 207, 111260.	1.4	4
3	Impact of DIC biases on the selection process of a unique test for anisotropic plasticity characterization. EPJ Web of Conferences, 2021, 250, 01001.	0.1	0
4	Analysis of fuselage skin reinforcements with beam element models in flexible aircraft panels for ditching simulations. IOP Conference Series: Materials Science and Engineering, 2021, 1024, 012054.	0.3	0
5	Image-Based Inertial Impact Test for Characterisation of Strain Rate Dependency of Ti6Al4V Titanium Alloy. Experimental Mechanics, 2020, 60, 235-248.	1.1	11
6	A computational approach to design new tests for viscoplasticity characterization at high strain-rates. Computational Mechanics, 2019, 64, 1639-1654.	2.2	18
7	A review of characterisation and parameters identification of materials constitutive and damage models: From normalised direct approach to most advanced inverse problem resolution. International Journal of Impact Engineering, 2017, 110, 371-381.	2.4	28
8	Coupled fluid-structure computational methods for aircraft ditching simulations: Comparison of ALE-FE and SPH-FE approaches. Computers and Structures, 2017, 188, 95-108.	2.4	29
9	Characterisation and Parameters Identification of Materials Constitutive and Damage Models: From Normalised Direct Approach to Most Advanced Inverse Problem Resolution. Procedia Engineering, 2017, 173, 33-40.	1.2	6
10	FE Modelling of Cellular Materials Under Compressive Load. Procedia Engineering, 2017, 173, 1951-1958.	1.2	1
11	Macro-modeling of spot weld strength and failure. Engineering Computations, 2017, 34, 941-959.	0.7	6
12	Experimental and finite element analysis of cellular materials under large compaction levels. International Journal of Solids and Structures, 2017, 128, 99-116.	1.3	14
13	A methodology for the viscoplastic behaviour characterisation of spot-weld heat affected materials. Journal of Materials Processing Technology, 2016, 238, 169-180.	3.1	9
14	An innovative procedure for characterising a coupled elastoplastic damage model of behaviour using the Virtual Fields Method. International Journal of Solids and Structures, 2015, 69-70, 415-427.	1.3	15
15	Interpolation functions of a hybrid-Trefftz perforated super-element featuring nodes on the hole boundary. Finite Elements in Analysis and Design, 2014, 91, 40-47.	1.7	5
16	Toward the modelling of riveted assemblies by super-elements in fast dynamics. Mechanics and Industry, 2014, 15, 133-137.	0.5	0
17	Identification of Johnson's "Cook's" Viscoplastic Model Parameters Using the Virtual Fields Method: Application to Titanium Alloy Ti6Al4V. Strain, 2013, 49, 22-45.	1.4	33
18	Strain-rate dependence in spot welds: Non-linear behaviour and failure in pure and combined modes I/II. International Journal of Impact Engineering, 2010, 37, 792-805.	2.4	37

#	ARTICLE	IF	CITATIONS
19	On some features of a plate hybrid-Trefftz displacement element containing a hole. Finite Elements in Analysis and Design, 2010, 46, 819-828.	1.7	15
20	Submarine hull integrity under blast loading. International Journal of Impact Engineering, 2009, 36, 1070-1078.	2.4	15
21	Hybrid displacement FE formulations including a hole. Structural Engineering and Mechanics, 2009, 31, 439-451.	1.0	3
22	Evaluation of a Euler/Lagrange coupling method for the ditching simulation of helicopter structures. WIT Transactions on the Built Environment, 2009, , .	0.0	2
23	Toward a Hybrid-Trefftz element with a hole for elasto-plasticity?. Journal of Computational and Applied Mathematics, 2008, 218, 88-95.	1.1	5
24	Non-linear and failure behaviour of spotwelds: a "global" finite element and experiments in pure and mixed modes I/II. International Journal of Solids and Structures, 2004, 41, 6631-6646.	1.3	41
25	Armoured vehicles subject to mine explosions " an analysis method for operationability and survivability. European Physical Journal Special Topics, 2003, 110, 621-626.	0.2	5
26	Full scale experimental characterisation for riveted joint design. Aerospace Science and Technology, 2002, 6, 333-342.	2.5	16
27	An alternative numerical approach for full scale characterisation for riveted joint design. Aerospace Science and Technology, 2002, 6, 343-354.	2.5	43
28	Riveted joint modeling for numerical analysis of airframe crashworthiness. Finite Elements in Analysis and Design, 2001, 38, 21-44.	1.7	61
29	Identification of Nonlinear Dynamic Behavior and Failure for Riveted Joint Assemblies. Shock and Vibration, 2000, 7, 121-138.	0.3	12
30	Numerical approach for assessment of dynamic strength for riveted joints. Aerospace Science and Technology, 1999, 3, 431-446.	2.5	13
31	Identification technique of constitutive model parameters for crashworthiness modelling. Aerospace Science and Technology, 1999, 3, 215-227.	2.5	37
32	Structural Embrittlement Due to Riveted Joints - Evolution to a Macroscopic Model for Crash-Analysis. , 0, , .		2