# Bertrand Langrand

## List of Publications by Citations



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|---|---|---|---|
| 31 papers | 390 citations | 12 h-index | 19 g-index |
| 33 ext. papers | 424 ext. citations | 2.9 avg, IF | 3.47 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 31 | Riveted joint modeling for numerical analysis of airframe crashworthiness. *Finite Elements in Analysis and Design*, **2001**, 38, 21-44 | 2.2 | 54 |
| 30 | Non-linear and failure behaviour of spotwelds: a global–local finite element and experiments in pure and mixed modes I/II. *International Journal of Solids and Structures*, **2004**, 41, 6631-6646 | 3.1 | 34 |
| 29 | An alternative numerical approach for full scale characterisation for riveted joint design. *Aerospace Science and Technology*, **2002**, 6, 343-354 | 4.9 | 34 |
| 28 | Identification technique of constitutive model parameters for crashworthiness modelling. *Aerospace Science and Technology*, **1999**, 3, 215-227 | 4.9 | 33 |
| 27 | 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 | 4 | 32 |
| 26 | Identification of Johnson–Cook's Viscoplastic Model Parameters Using the Virtual Fields Method: Application to Titanium Alloy Ti6Al4V. *Strain*, **2013**, 49, 22-45 | 1.7 | 27 |
| 25 | 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 | 4 | 23 |
| 24 | Coupled fluid-structure computational methods for aircraft ditching simulations: Comparison of ALE-FE and SPH-FE approaches. *Computers and Structures*, **2017**, 188, 95-108 | 4.5 | 20 |
| 23 | Submarine hull integrity under blast loading. *International Journal of Impact Engineering*, **2009**, 36, 1070-1078 | 4 | 14 |
| 22 | 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 | 3.1 | 13 |
| 21 | Experimental and finite element analysis of cellular materials under large compaction levels. *International Journal of Solids and Structures*, **2017**, 128, 99-116 | 3.1 | 12 |
| 20 | Full scale experimental characterisation for riveted joint design. *Aerospace Science and Technology*, **2002**, 6, 333-342 | 4.9 | 12 |
| 19 | A computational approach to design new tests for viscoplasticity characterization at high strain-rates. *Computational Mechanics*, **2019**, 64, 1639-1654 | 4 | 11 |
| 18 | On some features of a plate hybrid-Trefftz displacement element containing a hole. *Finite Elements in Analysis and Design*, **2010**, 46, 819-828 | 2.2 | 11 |
| 17 | Identification of Nonlinear Dynamic Behavior and Failure for Riveted Joint Assemblies. *Shock and Vibration*, **2000**, 7, 121-138 | 1.1 | 11 |
| 16 | Numerical approach for assessment of dynamic strength for riveted joints. *Aerospace Science and Technology*, **1999**, 3, 431-446 | 4.9 | 11 |
| 15 | A methodology for the viscoplastic behaviour characterisation of spot-weld heat affected materials. *Journal of Materials Processing Technology*, **2016**, 238, 169-180 | 5.3 | 8 |

# List of Publications

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|---|---|---|---|
| 14 | Image-Based Inertial Impact Test for Characterisation of Strain Rate Dependency of Ti6Al4V Titanium Alloy. *Experimental Mechanics*, **2020**, 60, 235-248 | 2.6 | 6 |
| 13 | 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 | | 5 |
| 12 | Macro-modeling of spot weld strength and failure. *Engineering Computations*, **2017**, 34, 941-959 | 1.4 | 4 |
| 11 | 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 | 2.2 | 4 |
| 10 | Toward a Hybrid-Trefftz element with a hole for elasto-plasticity?. *Journal of Computational and Applied Mathematics*, **2008**, 218, 88-95 | 2.4 | 4 |
| 9 | Armoured vehicles subject to mine explosions an analysis method for operationability and survivability. *European Physical Journal Special Topics*, **2003**, 110, 621-626 | | 4 |
| 8 | Hybrid displacement FE formulations including a hole. *Structural Engineering and Mechanics*, **2009**, 31, 439-451 | | 2 |
| 7 | FE Modelling of Cellular Materials Under Compressive Load. *Procedia Engineering*, **2017**, 173, 1951-1958 | | 0 |
| 6 | Toward the modelling of riveted assemblies by super-elements in fast dynamics. *Mechanics and Industry*, **2014**, 15, 133-137 | 0.8 | |
| 5 | Some Advantages of Advanced Inverse Methods to Identify Viscoplastic and Damage Material Model Parameters **2019**, 177-211 | | |
| 4 | Impact of DIC biases on the selection process of a unique test for anisotropic plasticity characterization. *EPJ Web of Conferences*, **2021**, 250, 01001 | 0.3 | |
| 3 | 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 | 0.4 | |
| 2 | 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 | 0.4 | |
| 1 | Robustness of specimen design criteria for identification of anisotropic mechanical behaviour from heterogeneous mechanical fields. *Computational Materials Science*, **2022**, 207, 111260 | 3.2 | |