# Lionel Leotoing

List of Publications by Year
in descending order



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|---|---|---|---|
| 49 papers | 1,061 citations | 489802 18 h-index | 488211 31 g-index |
| 52 all docs | 52 docs citations | 52 times ranked | 636 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Characterization of forming limits at fracture from shear to plane strain with a dedicated cruciform specimen. International Journal of Material Forming, 2022, 15, 1. | 0.9 | 8 |
| 2 | Relevant material characterization for load prediction in incremental forming. International Journal of Material Forming, 2022, 15, 1. | 0.9 | 3 |
| 3 | Influence of criteria on the determination of forming limits in thickness reduced cruciform specimens. IOP Conference Series: Materials Science and Engineering, 2022, 1238, 012051. | 0.3 | 0 |
| 4 | Experimental investigation of punch curvature influence in Nakazima test and numerical FLD prediction of AA5086. Ferroelectrics, 2020, 565, 12-25. | 0.3 | 3 |
| 5 | Effect Of Temperature And Strain Rate On The Plastic Anisotropic Behavior Characterized By A Single Biaxial Tensile Test. Procedia Manufacturing, 2020, 47, 1532-1539. | 1.9 | 3 |
| 6 | Strength characterization of glass/epoxy plain weave composite under different biaxial loading ratios. Journal of Composite Materials, 2020, 54, 2549-2563. | 1.2 | 8 |
| 7 | Thermo-viscoplastic behavior of AA6061 under dynamic biaxial loadings. AIP Conference Proceedings, 2019, , . | 0.3 | 1 |
| 8 | Influence of the mechanical model of titanium T40 on the predicted forces during incremental forming process. AIP Conference Proceedings, 2019, , . | 0.3 | 1 |
| 9 | Effect of continuous strain path changes on forming limit strains of DP600. Strain, 2019, 55, e12329. | 1.4 | 5 |
| 10 | Identification of 7B04 aluminum alloy anisotropy yield criteria with conventional test and Pottier test at elevated temperature. Results in Physics, 2019, 15, 102655. | 2.0 | 4 |
| 11 | Effects of Strain Path Changes on the Kinematics and the Intrinsic Dissipation Accompanying PLC Bands in Al-Mg Alloys. Experimental Mechanics, 2019, 59, 963-977. | 1.1 | 2 |
| 12 | Characterization of forming limits at fracture with an optimized cruciform specimen: Application to DP600 steel sheets. International Journal of Mechanical Sciences, 2017, 126, 35-43. | 3.6 | 39 |
| 13 | Calorimetric analysis of Portevin-Le Chatelier bands under equibiaxial loading conditions in Alâ€“Mg alloys: Kinematics and mechanical dissipation. Mechanics of Materials, 2017, 105, 80-88. | 1.7 | 16 |
| 14 | Identification of forming limits at fracture of DP600 sheet metal under linear and unloaded non-linear strain paths. Procedia Engineering, 2017, 207, 562-567. | 1.2 | 5 |
| 15 | Strain rate dependent hardening of DP600 sheet metal for large strains under in-plane biaxial loadings. AIP Conference Proceedings, 2016, , . | 0.3 | 3 |
| 16 | Identification of strain rate-dependent mechanical behaviour of DP600 under in-plane biaxial loadings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 676, 366-376. | 2.6 | 22 |
| 17 | Investigation of the forming limit strains at fracture of AA5086 sheets using an in-plane biaxial tensile test. Engineering Fracture Mechanics, 2016, 163, 130-140. | 2.0 | 35 |
| 18 | Effect of Material Thermo-viscoplastic Modeling on the Prediction of Forming Limit Curves of Aluminum Alloy 5086. Journal of Materials Engineering and Performance, 2015, 24, 3459-3470. | 1.2 | 6 |

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|---|---|---|---|
| 19 | Dedicated linear â€“ Voce model and its application in investigating temperature and strain rate effects on sheet formability of aluminum alloys. Materials & Design, 2015, 67, 522-530. | 5.1 | 20 |
| 20 | Potential of the Cross Biaxial Test for Anisotropy Characterization Based on Heterogeneous Strain Field. Experimental Mechanics, 2015, 55, 817-835. | 1.1 | 30 |
| 21 | Investigations of the effect of strain path changes on forming limit curves using an in-plane biaxial tensile test. International Journal of Mechanical Sciences, 2015, 99, 21-28. | 3.6 | 56 |
| 22 | Investigation of the influence of the initial groove angle in the Mâ€“K model on limit strains and forming limit curves. International Journal of Mechanical Sciences, 2015, 98, 59-69. | 3.6 | 20 |
| 23 | Analytical and numerical analysis of a â€œspringback-formingâ€•process dedicated to stiffened panels. International Journal of Mechanical Sciences, 2015, 101-102, 399-410. | 3.6 | 1 |
| 24 | Identification of sheet metal hardening for large strains with an in-plane biaxial tensile test and a dedicated cross specimen. International Journal of Mechanical Sciences, 2015, 101-102, 387-398. | 3.6 | 56 |
| 25 | Identification of Anisotropic Yield Criterion Parameters from a Single Biaxial Tensile Test. Key Engineering Materials, 2014, 611-612, 1710-1717. | 0.4 | 2 |
| 26 | Temperature and strain rate influence on AA5086 Forming Limit Curves: Experimental results and discussion on the validity of the M-K model. International Journal of Mechanical Sciences, 2014, 78, 27-34. | 3.6 | 51 |
| 27 | A Process/Machine coupling approach: Application to Robotized Incremental Sheet Forming. Journal of Materials Processing Technology, 2014, 214, 1605-1616. | 3.1 | 23 |
| 28 | Effects of Temperature and Strain Rate on the Forming Limit Curves of AA5086 Sheet. Procedia Engineering, 2014, 81, 772-778. | 1.2 | 10 |
| 29 | Calibration of anisotropic yield criterion with conventional tests or biaxial test. International Journal of Mechanical Sciences, 2014, 85, 142-151. | 3.6 | 63 |
| 30 | Off-line compensation of the tool path deviations on robotic machining: Application to incremental sheet forming. Robotics and Computer-Integrated Manufacturing, 2013, 29, 58-69. | 6.1 | 78 |
| 31 | Cruciform shape benefits for experimental and numerical evaluation of sheet metal formability. Journal of Materials Processing Technology, 2013, 213, 856-863. | 3.1 | 57 |
| 32 | A Comparative Study of Different Necking Criteria for Numerical and Experimental Prediction of FLCs. Journal of Materials Engineering and Performance, 2011, 20, 1036-1042. | 1.2 | 27 |
| 33 | An in-plane tensile test for rheological and formability identification: comparison between experimental and numerical FLC. AIP Conference Proceedings, 2011, , . | 0.3 | 2 |
| 34 | Numerical Investigation of Temperature and Forming Rate Effect on AA5086 Warm Formability. Materials Science Forum, 2011, 675-677, 607-610. | 0.3 | 0 |
| 35 | A biaxial test for rheological and formability identification. EPJ Web of Conferences, 2010, 6, 16004. | 0.1 | 3 |
| 36 | Experimental and numerical study on effect of forming rate on AA5086 sheet formability. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 967-972. | 2.6 | 19 |

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|---|---|---|---|
| 37 | A methodology for evaluating sheet formability combining the tensile test with the Mâ€“K model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 480-485. | 2.6 | 14 |
| 38 | Development of an in-plane biaxial test for forming limit curve (FLC) characterization of metallic sheets. Measurement Science and Technology, 2010, 21, 055701. | 1.4 | 71 |
| 39 | Theoretical and numerical study of strain rate influence on AA5083 formability. Journal of Materials Processing Technology, 2009, 209, 3849-3858. | 3.1 | 124 |
| 40 | Effects of a strain rate sensitive material on the optimization of an hydroforming process. International Journal of Material Forming, 2008, 1, 335-338. | 0.9 | 0 |
| 41 | New analytical method to evaluate the powerplant and chassis coupling in the improvement vehicle NVH. European Journal of Mechanics, A/Solids, 2005, 24, 929-943. | 2.1 | 18 |
| 42 | First applications of a novel unified model for global and local buckling of sandwich columns. European Journal of Mechanics, A/Solids, 2002, 21, 683-701. | 2.1 | 49 |
| 43 | Nonlinear interaction of geometrical and material properties in sandwich beam instabilities. International Journal of Solids and Structures, 2002, 39, 3717-3739. | 1.3 | 53 |
| 44 | Multi-Objective Robust Design Optimization of an Engine Mounting System. , 0, , . | | 24 |
| 45 | Force Prediction for Correction of Robot Tool Path in Single Point Incremental Forming. Key Engineering Materials, 0, 554-557, 1282-1289. | 0.4 | 4 |
| 46 | A Cruciform Shape to Study the Influence of Strain Paths on Forming Limit Curves. Key Engineering Materials, 0, 554-557, 41-46. | 0.4 | 5 |
| 47 | Calibration of Material Parameters of Anisotropic Yield Criterion with Conventional Tests and Biaxial Test. Key Engineering Materials, 0, 554-557, 2111-2117. | 0.4 | 3 |
| 48 | Comparison of Constitutive Laws on the Modeling of Thermo-Viscoplastic Behaviour of an Aluminum Alloy. Applied Mechanics and Materials, 0, 496-500, 307-310. | 0.2 | 0 |
| 49 | Prediction of the Two-Scale Buckling Response of Sandwich Beams under In-Plane Compression. , 0, , . | | 0 |