

Dimitri Debruyne

List of Publications by Year in descending order

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papers

527
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840585

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Material modeling of 6016-O and 6016-T4 aluminum alloy sheets and application to hole expansion forming simulation. <i>International Journal of Plasticity</i> , 2017, 93, 164-186.	4.1	135
2	Investigations on the fretting fatigue failure mechanism of bolted joints in high strength steel subjected to different levels of pre-tension. <i>Tribology International</i> , 2017, 108, 128-140.	3.0	58
3	Inverse identification of the post-necking work hardening behaviour of thick HSS through full-field strain measurements during diffuse necking. <i>Mechanics of Materials</i> , 2019, 129, 361-374.	1.7	48
4	Impact of Experimental Uncertainties on the Identification of Mechanical Material Properties using DIC. <i>Experimental Mechanics</i> , 2015, 55, 1411-1426.	1.1	37
5	Equivalent modelling strategy for a clinched joint using a simple calibration method. <i>Thin-Walled Structures</i> , 2017, 113, 1-12.	2.7	32
6	Effect of Biaxial Work Hardening Modeling for Sheet Metals on the Accuracy of Forming Limit Analyses Using the Marciniak-Kuczyski Approach. <i>Advanced Structured Materials</i> , 2015, , 67-95.	0.3	26
7	Theoretical and experimental study of forming-limit strain of half-hard AA1100 aluminium alloy sheet. <i>Computational Materials Science</i> , 2013, 77, 61-71.	1.4	22
8	On the synergy between physical and virtual sheet metal testing: calibration of anisotropic yield functions using a microstructure-based plasticity model. <i>International Journal of Material Forming</i> , 2019, 12, 741-759.	0.9	20
9	Biaxial Tensile Test of High Strength Steel Sheet for Large Plastic Strain Range. <i>Key Engineering Materials</i> , 2012, 504-506, 59-64.	0.4	15
10	Closed-Loop Optimization of DIC Speckle Patterns Based on Simulated Experiments. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 4376-4386.	2.4	12
11	In-house texture measurement using a compact neutron source. <i>Journal of Applied Crystallography</i> , 2020, 53, 444-454.	1.9	11
12	A procedure for specimen optimization applied to material testing in plasticity with the virtual fields method. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	9
13	Failure Mechanisms of Mechanically and Thermally Produced Holes in High-Strength Low-Alloy Steel Plates Subjected to Fatigue Loading. <i>Metals</i> , 2020, 10, 318.	1.0	9
14	A machine learning based sensitivity analysis of the GTN damage parameters for dynamic fracture propagation in X70 pipeline steel. <i>International Journal of Fracture</i> , 2021, 227, 111-132.	1.1	9
15	Application of flow model in metal cutting to cold forging of tubular products. <i>CIRP Annals - Manufacturing Technology</i> , 2019, 68, 273-276.	1.7	8
16	Inverse Yield Locus Identification of Sheet Metal Using a Complex Cruciform in Biaxial Tension and Digital Image Correlation. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	7
17	Fatigue behaviour and lifetime prediction of cold-formed high strength steel. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	7
18	Effect of surface area of grain boundaries on stress relaxation behavior in pure copper over wide range of grain sizes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 794, 139585.	2.6	7

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19	Effect of Equivalent Stress-Strain Relation and Differential Hardening on Accuracy of Forming Limit Analyses. <i>Key Engineering Materials</i> , 2015, 651-653, 9-14.	0.4	6
20	Fracture Prediction for Mild Steel Sheet and High-Strength Steel Sheet Subjected to Draw Bending Using Forming Limit Stress Criterion. <i>Journal of Materials Processing Technology</i> , 2021, 287, 1163-13.	3.1	6
21	Numerical modelling of dynamic ductile fracture propagation in different lab-scale experiments using GTN damage model. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 105-112.	0.5	6
22	Experimental Study on the Strength of Stainless Steel Fillet Welds. <i>Proceedings (mdpi)</i> , 2018, 2, 431.	0.2	4
23	Plastic deformation of workpiece during unloading in plate compression. <i>CIRP Annals - Manufacturing Technology</i> , 2021, 70, 223-226.	1.7	4
24	Forming Limit Analyses of Cold Rolled IF Steel Sheet Using Differential Work Hardening Model. <i>Procedia Engineering</i> , 2014, 81, 1246-1251.	1.2	3
25	Alternative method for the identification of the strain hardening behaviour along the rolling direction of coil. <i>Strain</i> , 2017, 53, e12231.	1.4	3
26	Model Based Bolt Preload Monitoring Using Digital Image Correlation. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	3
27	A testing method of cold forging performance of steel wires. <i>CIRP Annals - Manufacturing Technology</i> , 2020, 69, 281-284.	1.7	3
28	Measurement and Material Modeling of Work Hardening Behavior of High Strength Steel Sheet Using Multiaxial Tube Expansion Testing Method. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2013, 54, 628-634.	0.0	3
29	Formulation of Differential Hardening of Sheet Metals and Application to Numerical Simulations. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2016, 57, 181-187.	0.0	3
30	Numerical biaxial tensile test for sheet metal forming simulation of aluminium alloy sheets based on the homogenized crystal plasticity finite element method. <i>Journal of Physics: Conference Series</i> , 2016, 734, 032005.	0.3	2
31	Fracture Prediction of Mild Steel Sheet and High-Strength Steel Sheet Subjected to Draw-Bending Using Forming Limit Stress Criterion. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2016, 57, 1055-1061.	0.0	2
32	Mechanical Behaviour of Clinched Joints in Configurations. <i>Proceedings (mdpi)</i> , 2018, 2, 414.	0.2	2
33	Advances in post-necking flow curve identification of sheet metal through standard tensile testing. , 2013, , .		1
34	Forming Limit Analyses of 590 MPa High Strength Steel Sheet Using Differential Work Hardening Model. <i>Key Engineering Materials</i> , 0, 622-623, 353-358.	0.4	1
35	Fracture Prediction for High-strength Steel Sheet Subjected to Draw-bending Using Forming Limit Stress Criterion. <i>Journal of Physics: Conference Series</i> , 2016, 734, 032012.	0.3	1
36	Effect of the r-value change on the forming limit analysis for a ultra-low carbon steel sheet. <i>Journal of Physics: Conference Series</i> , 2016, 734, 032070.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Numerical Investigations on the Fatigue Life of Lean Duplex Transverse Stiffeners in Bridges. Proceedings (mdpi), 2018, 2, .	0.2	1
38	Material Modeling of High Strength Steel Sheet Using Multiaxial Tube Expansion Test with Optical Strain Measurement System. Key Engineering Materials, 0, 554-557, 139-144.	0.4	0
39	Error assessment in post-necking strain hardening behaviour identification of mild steel sheet. Journal of Physics: Conference Series, 2016, 734, 032060.	0.3	0
40	Reproducing the experimental torque-to-turn resistance of blind rivet nuts using FEA. AIP Conference Proceedings, 2017, , .	0.3	0
41	Material Modeling of 590 MPa High Strength Steel Sheet Using Multiaxial Tube Expansion Test with Digital Image Correlation System. Journal of the Japan Society for Technology of Plasticity, 2014, 55, 1126-1127.	0.0	0