

Dimitri Debruyne

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

335
citations

9
h-index

17
g-index

41
ext. papers

437
ext. citations

2
avg, IF

3.91
L-index

#	Paper	IF	Citations
39	Plastic deformation of workpiece during unloading in plate compression. <i>CIRP Annals - Manufacturing Technology</i> , 2021 , 70, 223-223	4.9	1
38	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, 116313	5.3	3
37	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	2.3	0
36	A testing method of cold forging performance of steel wires. <i>CIRP Annals - Manufacturing Technology</i> , 2020 , 69, 281-284	4.9	0
35	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	2.3	5
34	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	5.3	2
33	In-house texture measurement using a compact neutron source. <i>Journal of Applied Crystallography</i> , 2020 , 53, 444-454	3.8	7
32	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	0.9	2
31	Application of flow model in metal cutting to cold forging of tubular products. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 273-276	4.9	3
30	Closed-Loop Optimization of DIC Speckle Patterns Based on Simulated Experiments. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 4376-4386	5.2	7
29	Fatigue behaviour and lifetime prediction of cold-formed high strength steel 2019 ,		3
28	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	3.3	31
27	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	2	10
26	Numerical Investigations on the Fatigue Life of Lean Duplex Transverse Stiffeners in Bridges. <i>Proceedings (mdpi)</i> , 2018 , 2, 415	0.3	1
25	Experimental Study on the Strength of Stainless Steel Fillet Welds. <i>Proceedings (mdpi)</i> , 2018 , 2, 431	0.3	1
24	Inverse Yield Locus Identification of Sheet Metal Using a Complex Cruciform in Biaxial Tension and Digital Image Correlation. <i>Proceedings (mdpi)</i> , 2018 , 2, 382	0.3	4
23	Model Based Bolt Preload Monitoring Using Digital Image Correlation. <i>Proceedings (mdpi)</i> , 2018 , 2, 514	0.3	3

22	Mechanical Behaviour of Clinched Joints in Configurations. <i>Proceedings (mdpi)</i> , 2018 , 2, 414	0.3	2
21	Equivalent modelling strategy for a clinched joint using a simple calibration method. <i>Thin-Walled Structures</i> , 2017 , 113, 1-12	4.7	25
20	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	4.9	36
19	Alternative method for the identification of the strain hardening behaviour along the rolling direction of coil. <i>Strain</i> , 2017 , 53, e12231	1.7	1
18	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	7.6	99
17	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	0.3	1
16	A procedure for specimen optimization applied to material testing in plasticity with the virtual fields method 2016 ,		4
15	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	0.3	2
14	Error assessment in post-necking strain hardening behaviour identification of mild steel sheet. <i>Journal of Physics: Conference Series</i> , 2016 , 734, 032060	0.3	
13	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	0
12	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
11	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	1
10	Effect of Biaxial Work Hardening Modeling for Sheet Metals on the Accuracy of Forming Limit Analyses Using the Marciniak-Kuczynski Approach. <i>Advanced Structured Materials</i> , 2015 , 67-95	0.6	14
9	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
8	Impact of Experimental Uncertainties on the Identification of Mechanical Material Properties using DIC. <i>Experimental Mechanics</i> , 2015 , 55, 1411-1426	2.6	26
7	Forming Limit Analyses of Cold Rolled IF Steel Sheet Using Differential Work Hardening Model. <i>Procedia Engineering</i> , 2014 , 81, 1246-1251		2
6	Forming Limit Analyses of 590 MPa High Strength Steel Sheet Using Differential Work Hardening Model. <i>Key Engineering Materials</i> , 2014 , 622-623, 353-358	0.4	1
5	Material Modeling of 590 MPa High Strength Steel Sheet Using Multiaxial Tube Expansion Test with Digital Image Correlation System. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2014 , 55, 1126-1127	0.3	1

4	Theoretical and experimental study of forming-limit strain of half-hard AA1100 aluminium alloy sheet. <i>Computational Materials Science</i> , 2013 , 77, 61-71	3.2	19
3	Material Modeling of High Strength Steel Sheet Using Multiaxial Tube Expansion Test with Optical Strain Measurement System. <i>Key Engineering Materials</i> , 2013 , 554-557, 139-144	0.4	
2	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	0.3	1
1	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	11