

Niko Manopulo

List of Publications by Year in descending order

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28
papers

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citations

1039406

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28
all docs

28
docs citations

28
times ranked

262
citing authors

#	ARTICLE	IF	CITATIONS
1	An extended Modified Maximum Force Criterion for the prediction of localized necking under non-proportional loading. International Journal of Plasticity, 2015, 75, 189-203.	4.1	57
2	A coupled yield criterion for anisotropic hardening with analytical description under associated flow rule: Modeling and validation. International Journal of Plasticity, 2021, 136, 102882.	4.1	45
3	On the modelling of plastic anisotropy, asymmetry and directional hardening of commercially pure titanium: A planar Fourier series based approach. International Journal of Plasticity, 2017, 91, 182-204.	4.1	43
4	Isotropic to distortional hardening transition in metal plasticity. International Journal of Solids and Structures, 2015, 56-57, 11-19.	1.3	28
5	Effect of through thickness strain distribution on shear fracture hazard and its mitigation by using multilayer aluminum sheets. Journal of Materials Processing Technology, 2016, 232, 19-33.	3.1	24
6	A strain rate dependent anisotropic hardening model and its validation through deep drawing experiments. International Journal of Material Forming, 2014, 7, 447-457.	0.9	20
7	Numerical investigation of the post-necking behavior of aluminum sheets in the presence of geometrical and material inhomogeneities. International Journal of Solids and Structures, 2016, 102-103, 56-65.	1.3	19
8	Numerical modelling, validation and analysis of multi-pass sheet metal spinning processes. International Journal of Material Forming, 2017, 10, 641-651.	0.9	16
9	The bending dependency of forming limit diagrams. International Journal of Material Forming, 2019, 12, 815-825.	0.9	13
10	A flexible modelling approach for capturing plastic anisotropy and strength differential effects exhibited by commercially pure titanium. International Journal of Solids and Structures, 2018, 151, 91-98.	1.3	8
11	On the efficiency and accuracy of stress integration algorithms for constitutive models based on non-associated flow rule. International Journal of Material Forming, 2018, 11, 239-246.	0.9	5
12	Significance of the local sheet curvature in the prediction of sheet metal forming limits by necking instabilities and cracks. MATEC Web of Conferences, 2016, 80, 11003.	0.1	4
13	A discussion of the associated flow rule based on the FAY model and Nakajima tests. Journal of Physics: Conference Series, 2018, 1063, 012090.	0.3	4
14	A generalized anisotropic and asymmetric yield criterion with adjustable complexity. Comptes Rendus - Mecanique, 2018, 346, 779-793.	2.1	4
15	An ALE Based FE Formulation for the 3D Numerical Simulation of Fineblanking Processes. , 2010, , .		3
16	An ALE Based FE Formulation for the 3D Numerical Simulation of Fineblanking Processes. , 2011, , .		3
17	Failure Prediction in Fine Blanking Process with Stress Limit Model. , 2010, , .		2
18	New software and hardware concepts for an integral in-line quality control in sheet metal forming. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
19	On the modelling of strength differential and anisotropy exhibited by titanium. Journal of Physics: Conference Series, 2016, 734, 032051.	0.3	2
20	On the role of Anisotropy and Bauschinger-Effect in Sheet Metal Spinning. Journal of Physics: Conference Series, 2017, 896, 012042.	0.3	2
21	A new algorithm for the fast and stable identification of FAY coefficients and its application as a universal platform for yield surface modeling. International Journal of Solids and Structures, 2020, 207, 1-10.	1.3	2
22	Prediction of localized necking for nonlinear strain paths using the modified maximum force criterion (MMFC) and the homogeneous anisotropic hardening model (HAH). , 2013, , .		1
23	Combination of the strain dependent Yld2000 model with an extended HAH model. , 2013, , .		1
24	A new optimization procedure for the accurate characterization of thermal phase transformation curves based on controlled quenching experiments. MATEC Web of Conferences, 2016, 80, 10010.	0.1	1
25	Simulation and Knowledge Based Process Planning Through the Use of Metamodels. , 2010, , .		0
26	Analysis of strain paths of sheared edges during hole expansion tests. , 2013, , .		0
27	Numerical Heat Treatment Modelling of Fine Blanked Sheet Metal and Experimental Validation. Key Engineering Materials, 2015, 651-653, 1531-1536.	0.4	0
28	Numerical Tool Path Optimization for Conventional Sheet Metal Spinning Processes. Journal of Physics: Conference Series, 2016, 734, 032009.	0.3	0