Niko Manopulo

List of Publications by Citations

25 papers	217 citations	8 h-index	14 g-index
28 ext. papers	259 ext. citations	2.6 avg, IF	3.49 L-index

#	Paper	IF	Citations
25	An extended Modified Maximum Force Criterion for the prediction of localized necking under non-proportional loading. *International Journal of Plasticity*, **2015**, 75, 189-203	7.6	42
24	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	7.6	31
23	Isotropic to distortional hardening transition in metal plasticity. *International Journal of Solids and Structures*, **2015**, 56-57, 11-19	3.1	26
22	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	5.3	22
21	A strain rate dependent anisotropic hardening model and its validation through deep drawing experiments. *International Journal of Material Forming*, **2014**, 7, 447-457	2	18
20	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	3.1	16
19	A coupled yield criterion for anisotropic hardening with analytical description under associated flow rule: Modeling and validation. *International Journal of Plasticity*, **2021**, 136, 102882	7.6	14
18	Numerical modelling, validation and analysis of multi-pass sheet metal spinning processes. *International Journal of Material Forming*, **2017**, 10, 641-651	2	11
17	The bending dependency of forming limit diagrams. *International Journal of Material Forming*, **2019**, 12, 815-825	2	7
16	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	2	4
15	A generalized anisotropic and asymmetric yield criterion with adjustable complexity. *Comptes Rendus - Mecanique*, **2018**, 346, 779-793	2.1	4
14	An ALE Based FE Formulation for the 3D Numerical Simulation of Fineblanking Processes **2011**,		3
13	An ALE Based FE Formulation for the 3D Numerical Simulation of Fineblanking Processes **2010**,		3
12	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	3
11	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	3.1	2
10	Failure Prediction in Fine Blanking Process with Stress Limit Model **2010**,		2
9	On the modelling of strength differential and anisotropy exhibited by titanium. *Journal of Physics: Conference Series*, **2016**, 734, 032051	0.3	2

List of Publications

8	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	0.3	2
7	Prediction of localized necking for nonlinear strain paths using the modified maximum force criterion (MMFC) and the homogeneous anisotropic hardening model (HAH) **2013**,		1
6	Combination of the strain dependent Yld2000 model with an extended HAH model **2013**,		1
5	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	3.1	1
4	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	0.3	1
3	On the role of Anisotropy and Bauschinger-Effect in Sheet Metal Spinning. *Journal of Physics: Conference Series*, **2017**, 896, 012042	0.3	
2	Numerical Tool Path Optimization for Conventional Sheet Metal Spinning Processes. *Journal of Physics: Conference Series*, **2016**, 734, 032009	0.3	
1	Numerical Heat Treatment Modelling of Fine Blanked Sheet Metal and Experimental Validation. *Key Engineering Materials*, **2015**, 651-653, 1531-1536	0.4	