

Wencheng Liu

List of Publications by Year in descending order

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14
papers

190
citations

1163117
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all docs

14
docs citations

14
times ranked

115
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of internal friction and fracture fatigue entropy of CFRP laminates with various stacking sequences subjected to fatigue loading. Thin-Walled Structures, 2020, 155, 106978.	5.3	32
2	A 3D phenomenological yield function with both in and out-of-plane mechanical anisotropy using full-field crystal plasticity spectral method for modelling sheet metal forming of strong textured aluminum alloy. International Journal of Solids and Structures, 2020, 193-194, 117-133.	2.7	28
3	Numerical investigation of evolution of earing, anisotropic yield and plastic potentials in cold rolled FCC aluminium alloy based on the crystallographic texture measurements. European Journal of Mechanics, A/Solids, 2019, 75, 41-55.	3.7	26
4	Experimental and crystal plasticity modelling study on the crack initiation in micro-texture regions of Ti-6Al-4V during high cycle fatigue tests. International Journal of Fatigue, 2021, 148, 106203.	5.7	21
5	Analysis of ESAFORM 2021 cup drawing benchmark of an Al alloy, critical factors for accuracy and efficiency of FE simulations. International Journal of Material Forming, 2022, 15, .	2.0	18
6	Confidence level and reliability analysis of the fatigue life of CFRP laminates predicted based on fracture fatigue entropy. International Journal of Fatigue, 2022, 156, 106659.	5.7	14
7	Sheet metal anisotropy and optimal non-round blank design in high-speed multi-step forming of AA3104-H19 aluminium alloy can body. International Journal of Advanced Manufacturing Technology, 2018, 95, 4265-4277.	3.0	12
8	An investigation of plastic behaviour in cold-rolled aluminium alloy AA2024-T3 using laser speckle imaging sensor. International Journal of Advanced Manufacturing Technology, 2019, 103, 2707-2724.	3.0	8
9	A Comparative Study of Fatigue Energy Dissipation of Additive Manufactured and Cast AlSi10Mg Alloy. Metals, 2021, 11, 1274.	2.3	7
10	A new temperature-dependent anisotropic constitutive model for predicting deformation and spring-back in warm deep drawing of automotive AA5086-H111 aluminium alloy sheet. International Journal of Advanced Manufacturing Technology, 2018, 97, 3407-3421.	3.0	6
11	Development of a non-contact and non-destructive laser speckle imaging system for remote sensing of anisotropic deformation around fastener holes. NDT and E International, 2020, 111, 102219.	3.7	6
12	Multi-level deep drawing simulations of AA3104 aluminium alloy using crystal plasticity finite element modelling and phenomenological yield function. Advances in Mechanical Engineering, 2021, 13, 168781402110012.	1.6	6
13	A multi-scale modelling framework for anisotropy prediction in aluminium alloy sheet and its application in the optimisation of the deep-drawing process. International Journal of Advanced Manufacturing Technology, 2021, 114, 3401-3417.	3.0	6
14	A numerical scheme of convex yield function with continuous anisotropic hardening based on non-associated flow rule in FE analysis of sheet metal. Journal of Physics: Conference Series, 2018, 1063, 012092.	0.4	0