Juan Liao

List of Publications by Citations

25 papers	277 citations	9 h-index	16 g-index
29 ext. papers	363 ext. citations	3.6 avg, IF	3.59 L-index

#	Paper	IF	Citations
25	Mechanical, microstructural behaviour and modelling of dual phase steels under complex deformation paths. *International Journal of Plasticity*, **2017**, 93, 269-290	7.6	36
24	Modelling and sensitivity analysis of twist springback in deep drawing of dual-phase steel. *Materials and Design*, **2016**, 90, 204-217	8.1	28
23	Constitutive modeling for path-dependent behavior and its influence on twist springback. *International Journal of Plasticity*, **2017**, 93, 64-88	7.6	27
22	Effects of Pulsed Nd:YAG Laser Welding Parameters on Penetration and Microstructure Characterization of a DP1000 Steel Butt Joint. *Metals*, **2017**, 7, 292	2.3	27
21	Experimental assessment of nonlinear elastic behaviour of dual-phase steels and application to springback prediction. *International Journal of Mechanical Sciences*, **2016**, 117, 1-15	5.5	25
20	On twist springback prediction of asymmetric tube in rotary draw bending with different constitutive models. *International Journal of Mechanical Sciences*, **2014**, 89, 311-322	5.5	24
19	Modelling of mandrel rotary draw bending for accurate twist springback prediction of an asymmetric thin-walled tube. *Journal of Materials Processing Technology*, **2015**, 216, 405-417	5.3	23
18	Interfacial Characteristics of Dissimilar Ti6Al4V/AA6060 Lap Joint by Pulsed Nd:YAG Laser Welding. *Metals*, **2019**, 9, 71	2.3	13
17	A Springback Compensation Strategy and Applications to Bending Cases. *Steel Research International*, **2013**, 84, 463-472	1.6	10
16	Twist springback characteristics of dual-phase steel sheet after non-axisymmetric deep drawing. *International Journal of Material Forming*, **2017**, 10, 267-278	2	9
15	A New Springback Compensation Method for Sheet Metal Bending Based on Curvature Correction. *Advanced Materials Research*, **2010**, 97-101, 130-134	0.5	8
14	Pre-strain effect on twist springback of a 3D P-channel in deep drawing. *Journal of Materials Processing Technology*, **2021**, 287, 116224	5.3	8
13	Assessment of Metal Flow Balance in Multi-Output Porthole Hot Extrusion of AA6060 Thin-Walled Profile. *Metals*, **2018**, 8, 462	2.3	7
12	Hot-cracking susceptibility and shear fracture behavior of dissimilar Ti6Al4V/AA6060 alloys in pulsed Nd:YAG laser welding. *Chinese Journal of Aeronautics*, **2021**, 34, 375-386	3.7	7
11	Control strategy of twist springback for aluminium alloy hybrid thin-walled tube under mandrel-rotary draw bending. *International Journal of Material Forming*, **2018**, 11, 311-323	2	6
10	Twist Springback of Asymmetric Thin-walled Tube in Mandrel Rotary Draw Bending Process. *Procedia Engineering*, **2014**, 81, 2177-2183		6
9	Material Modelling and Springback Analysis for Multi-stage Rotary Draw Bending of Thin-walled Tube Using Homogeneous Anisotropic Hardening Model. *Procedia Engineering*, **2014**, 81, 1228-1233		5

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8	A Semi-Analytic Model to Predict and Compensate Springback in the 3D Stretch Bending Process. *Steel Research International*, **2014**, 85, 697-709	1.6	3
7	Analysis of forming-induced distortion of dissimilar Ti6Al4V/AA1050 laminate made by non-equal channel lateral co-extrusion. *International Journal of Advanced Manufacturing Technology*, **2020**, 110, 1627-1640	3.2	1
6	Modeling of the Mechanical Response During Reversal Shear Loading: Application to Steels. *Steel Research International*, **2016**, 87, 850-858	1.6	1
5	On twist springback of a curved channel with pre-strain effect. *International Journal of Lightweight Materials and Manufacture*, **2020**, 3, 108-112	2.2	1
4	Surface quality analysis of AZ31B Mg alloy sheet in ultrasonic-assisted warm single-point incremental forming. *International Journal of Advanced Manufacturing Technology*,1	3.2	1
3	Fabrication technology and shear failure behaviours of elastic□orous sandwich structure with entangled metallic wire mesh. *Thin-Walled Structures*, **2022**, 170, 108599	4.7	0
2	Experimental investigation of deep drawing of C-rail benchmark using various lubricants. *MATEC Web of Conferences*, **2015**, 21, 04011	0.3	
1	Experimental and numerical investigation of ultrasonic vibration-assisted warm incremental forming of magnesium alloy sheet. *International Journal of Advanced Manufacturing Technology*, **2022**, 119, 4559	3.2	