

Juan Liao

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Mechanical, microstructural behaviour and modelling of dual phase steels under complex deformation paths. <i>International Journal of Plasticity</i> , 2017, 93, 269-290.	4.1	53
2	Constitutive modeling for path-dependent behavior and its influence on twist springback. <i>International Journal of Plasticity</i> , 2017, 93, 64-88.	4.1	45
3	Experimental assessment of nonlinear elastic behaviour of dual-phase steels and application to springback prediction. <i>International Journal of Mechanical Sciences</i> , 2016, 117, 1-15.	3.6	42
4	Modelling and sensitivity analysis of twist springback in deep drawing of dual-phase steel. <i>Materials and Design</i> , 2016, 90, 204-217.	3.3	40
5	Effects of Pulsed Nd:YAG Laser Welding Parameters on Penetration and Microstructure Characterization of a DP1000 Steel Butt Joint. <i>Metals</i> , 2017, 7, 292.	1.0	39
6	Modelling of mandrel rotary draw bending for accurate twist springback prediction of an asymmetric thin-walled tube. <i>Journal of Materials Processing Technology</i> , 2015, 216, 405-417.	3.1	34
7	On twist springback prediction of asymmetric tube in rotary draw bending with different constitutive models. <i>International Journal of Mechanical Sciences</i> , 2014, 89, 311-322.	3.6	31
8	Hot-cracking susceptibility and shear fracture behavior of dissimilar Ti6Al4V/AA6060 alloys in pulsed Nd:YAG laser welding. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 375-386.	2.8	26
9	Pre-strain effect on twist springback of a 3D P-channel in deep drawing. <i>Journal of Materials Processing Technology</i> , 2021, 287, 116224.	3.1	19
10	Interfacial Characteristics of Dissimilar Ti6Al4V/AA6060 Lap Joint by Pulsed Nd:YAG Laser Welding. <i>Metals</i> , 2019, 9, 71.	1.0	17
11	Twist springback characteristics of dual-phase steel sheet after non-axisymmetric deep drawing. <i>International Journal of Material Forming</i> , 2017, 10, 267-278.	0.9	14
12	Assessment of Metal Flow Balance in Multi-Output Porthole Hot Extrusion of AA6060 Thin-Walled Profile. <i>Metals</i> , 2018, 8, 462.	1.0	13
13	A Springback Compensation Strategy and Applications to Bending Cases. <i>Steel Research International</i> , 2013, 84, 463-472.	1.0	12
14	Thermo-mechanical performances of elastic porous materials with metallic wire mesh structures. <i>Composite Structures</i> , 2022, 297, 115918.	3.1	10
15	A New Springback Compensation Method for Sheet Metal Bending Based on Curvature Correction. <i>Advanced Materials Research</i> , 0, 97-101, 130-134.	0.3	8
16	Control strategy of twist springback for aluminium alloy hybrid thin-walled tube under mandrel-rotary draw bending. <i>International Journal of Material Forming</i> , 2018, 11, 311-323.	0.9	8
17	Twist Springback of Asymmetric Thin-walled Tube in Mandrel Rotary Draw Bending Process. <i>Procedia Engineering</i> , 2014, 81, 2177-2183.	1.2	7
18	Surface quality analysis of AZ31B Mg alloy sheet in ultrasonic-assisted warm single-point incremental forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 1397-1410.	1.5	7

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19	Material Modelling and Springback Analysis for Multi-stage Rotary Draw Bending of Thin-walled Tube Using Homogeneous Anisotropic Hardening Model. <i>Procedia Engineering</i> , 2014, 81, 1228-1233.	1.2	6
20	Fabrication technology and shear failure behaviours of elastic porous sandwich structure with entangled metallic wire mesh. <i>Thin-Walled Structures</i> , 2022, 170, 108599.	2.7	6
21	A Semi-Analytic Model to Predict and Compensate Springback in the $3D$ Stretch Bending Process. <i>Steel Research International</i> , 2014, 85, 697-709.	1.0	4
22	Analysis of forming-induced distortion of dissimilar Ti6Al4V/AA1050 laminate made by non-equal channel lateral co-extrusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 1627-1640.	1.5	3
23	On twist springback of a curved channel with pre-strain effect. <i>International Journal of Lightweight Materials and Manufacture</i> , 2020, 3, 108-112.	1.3	2
24	Modeling of the Mechanical Response During Reversal Shear Loading: Application to Steels. <i>Steel Research International</i> , 2016, 87, 850-858.	1.0	1
25	Experimental and numerical investigation of ultrasonic vibration-assisted warm incremental forming of magnesium alloy sheet. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 4559.	1.5	1
26	Exploiting Sequential-Valve-Gate Molding To Control Weld Lines. , 2008, , .		0
27	A Method of Springback Prediction and Tool Shape Compensation for Multi-curvature Sheet Metal Bending. , 2010, , .		0
28	Optimization of an asymmetric thin-walled tube in rotary draw bending process. , 2013, , .		0
29	Experimental investigation of deep drawing of C-rail benchmark using various lubricants. <i>MATEC Web of Conferences</i> , 2015, 21, 04011.	0.1	0