Juan Liao

List of Publications by Year in descending order

29 papers	448 citations	759233 12 h-index	752698 20 g-index
29 all docs	29 docs citations	29 times ranked	295 citing authors

#	Article	IF	Citations
1	Surface quality analysis of AZ31B Mg alloy sheet in ultrasonic-assisted warm single-point incremental forming. International Journal of Advanced Manufacturing Technology, 2022, 118, 1397-1410.	3.0	7
2	Fabrication technology and shear failure behaviours of elasticâ€“porous sandwich structure with entangled metallic wire mesh. Thin-Walled Structures, 2022, 170, 108599.	5.3	6
3	Experimental and numerical investigation of ultrasonic vibration-assisted warm incremental forming of magnesium alloy sheet. International Journal of Advanced Manufacturing Technology, 2022, 119, 4559.	3.0	1
4	Thermo-mechanical performances of elasticâ€“porous materials with metallic wire mesh structures. Composite Structures, 2022, 297, 115918.	5.8	10
5	Pre-strain effect on twist springback of a 3D P-channel in deep drawing. Journal of Materials Processing Technology, 2021, 287, 116224.	6.3	19
6	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.	5.3	26
7	On twist springback of a curved channel with pre-strain effect. International Journal of Lightweight Materials and Manufacture, 2020, 3, 108-112.	2.1	2
8	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.	3.0	3
9	Interfacial Characteristics of Dissimilar Ti6Al4V/AA6060 Lap Joint by Pulsed Nd:YAG Laser Welding. Metals, 2019, 9, 71.	2.3	17
10	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.	2.0	8
11	Assessment of Metal Flow Balance in Multi-Output Porthole Hot Extrusion of AA6060 Thin-Walled Profile. Metals, 2018, 8, 462.	2.3	13
12	Twist springback characteristics of dual-phase steel sheet after non-axisymmetric deep drawing. International Journal of Material Forming, 2017, 10, 267-278.	2.0	14
13	Mechanical, microstructural behaviour and modelling of dual phase steels under complex deformation paths. International Journal of Plasticity, 2017, 93, 269-290.	8.8	53
14	Constitutive modeling for path-dependent behavior and its influence on twist springback. International Journal of Plasticity, 2017, 93, 64-88.	8.8	45
15	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	39
16	Modeling of the Mechanical Response During Reversal Shear Loading: Application to Steels. Steel Research International, 2016, 87, 850-858.	1.8	1
17	Experimental assessment of nonlinear elastic behaviour of dual-phase steels and application to springback prediction. International Journal of Mechanical Sciences, 2016, 117, 1-15.	6.7	42
18	Modelling and sensitivity analysis of twist springback in deep drawing of dual-phase steel. Materials and Design, 2016, 90, 204-217.	7.0	40

#	Article	IF	Citations
19	Experimental investigation of deep drawing of C-rail benchmark using various lubricants. MATEC Web of Conferences, 2015, 21, 04011.	0.2	0
20	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.	6.3	34
21	A Semiâ€Analytic Model to Predict and Compensate Springback in the 3<scp>D</scp> Stretch Bending Process. Steel Research International, 2014, 85, 697-709.	1.8	4
22	Twist Springback of Asymmetric Thin-walled Tube in Mandrel Rotary Draw Bending Process. Procedia Engineering, 2014, 81, 2177-2183.	1.2	7
23	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.	1.2	6
24	On twist springback prediction of asymmetric tube in rotary draw bending with different constitutive models. International Journal of Mechanical Sciences, 2014, 89, 311-322.	6.7	31
25	A Springback Compensation Strategy and Applications to Bending Cases. Steel Research International, 2013, 84, 463-472.	1.8	12
26	Optimization of an asymmetric thin-walled tube in rotary draw bending process. , 2013, , .		0
27	A Method of Springback Prediction and Tool Shape Compensation for Multi-curvature Sheet Metal Bending. , 2010, , .		0
28	Exploiting Sequential-Valve-Gate Molding To Control Weld Lines. , 2008, , .		0
29	A New Springback Compensation Method for Sheet Metal Bending Based on Curvature Correction. Advanced Materials Research, 0, 97-101, 130-134.	0.3	8