Junying Min

List of Publications by Year in Descending Order

85 papers	1,134 citations	20 h-index	29 g-index
92 ext. papers	1,463 ext. citations	3.5 avg, IF	4.89 L-index

#	Paper	IF	Citations
85	Thermo-mechanical modeling of flow drilling with a conical-tipped blind rivet. *CIRP Journal of Manufacturing Science and Technology*, **2022**, 36, 158-171	3.4	1
84	Experimental and theoretical studies on laser treatment strategies for improving shear bonding strength of structural adhesive joints with cast aluminum. *Composite Structures*, **2022**, 279, 114831	5.3	1
83	Experimental study on heat-affected zones of aluminum alloys in flow drill riveting. *Journal of Materials Research and Technology*, **2022**, 18, 1230-1244	5.5	
82	Experimental characterization and modeling of complex anisotropic hardening in quenching and partitioning (Q&P) steel subject to biaxial non-proportional loadings. *International Journal of Plasticity*, **2022**, 103347	7.6	1
81	Prediction of Cross-Tension Strength of Self-Piercing Riveted Joints Using Finite Element Simulation and XGBoost Algorithm. *Chinese Journal of Mechanical Engineering (English Edition)*, **2021**, 34,	2.5	6
80	Spindle-Shaped Surface Microstructure Inspired by Directional Water Collection Biosystems to Enhance Interfacial Wetting and Bonding Strength. *ACS Applied Materials & Interfaces*, **2021**, 13, 13760-13770	9.5	7
79	Evolving asymmetric yield surfaces of quenching and partitioning steels: Characterization and modeling. *Journal of Materials Processing Technology*, **2021**, 290, 116979	5.3	9
78	Laser-assisted conduction joining of carbon fiber reinforced sheet molding compound to dual-phase steel by a polycarbonate interlayer. *Optics and Laser Technology*, **2021**, 133, 106561	4.2	2
77	Effect of tension-compression testing strategy on kinematic model calibration and springback simulation of advanced high strength steels. *International Journal of Material Forming*, **2021**, 14, 435-448	2	5
76	Investigation of evolving yield surfaces of dual-phase steels. *Journal of Materials Processing Technology*, **2021**, 287, 116314	5.3	20
75	Effect of laser spot overlap ratio on surface characteristics and adhesive bonding strength of an Al alloy processed by nanosecond pulsed laser. *Journal of Manufacturing Processes*, **2021**, 62, 555-565	5	10
74	Application of laser ablation in adhesive bonding of metallic materials: A review. *Optics and Laser Technology*, **2020**, 128, 106188	4.2	29
73	A non-quadratic pressure-sensitive constitutive model under non-associated flow rule with anisotropic hardening: Modeling and validation. *International Journal of Plasticity*, **2020**, 135, 102808	7.6	24
72	Investigation on Yield Behavior of 7075-T6 Aluminum Alloy at Elevated Temperatures. *Chinese Journal of Mechanical Engineering (English Edition)*, **2020**, 33,	2.5	2
71	Effect of adherend deflection on lap-shear tensile strength of laser-treated adhesive-bonded joints. *International Journal of Adhesion and Adhesives*, **2020**, 97, 102481	3.4	3
70	Effect of adhesive type on mechanical properties of galvanized steel/SMC adhesive-bonded joints. *International Journal of Adhesion and Adhesives*, **2020**, 97, 102482	3.4	6
69	Effect of atmospheric pressure plasma treatment on surface physicochemical properties of carbon fiber reinforced polymer and its interfacial bonding strength with adhesive. *Composites Part B: Engineering*, **2020**, 199, 108237	10	21

68	Flexural Performance of Steelâ€“FRP Composites for Automotive Applications. *Automotive Innovation*, **2020**, 3, 280-295	1.7	13
67	Effect of constitutive model on springback prediction of MP980 and AA6022-T4. *International Journal of Material Forming*, **2020**, 13, 1-13	2	16
66	Models and modelling for process limits in metal forming. *CIRP Annals - Manufacturing Technology*, **2019**, 68, 775-798	4.9	29
65	Flow drill riveting of carbon fiber-reinforced polymer and aluminum alloy sheets. *Welding in the World, Le Soudage Dans Le Monde*, **2019**, 63, 1013-1024	1.9	5
64	A thin-walled structure with tailored properties for axial crushing. *International Journal of Mechanical Sciences*, **2019**, 157-158, 119-135	5.5	11
63	Application of pulsed Yb: Fiber laser to surface treatment of Al alloys for improved adhesive bonded performance. *Optics and Lasers in Engineering*, **2019**, 119, 65-76	4.6	18
62	Effect of Atmospheric Pressure Plasma Treatment on Adhesive Bonding of Carbon Fiber Reinforced Polymer. *Polymers*, **2019**, 11,	4.5	16
61	Effect of neutral salt spray (NSS) exposure on the lap-shear strength of adhesive-bonded 5052 aluminum alloy (AA5052) joints. *Journal of Adhesion Science and Technology*, **2019**, 33, 549-560	2	3
60	Effect of laser ablation treatment on corrosion resistance of adhesive-bonded Al alloy joints. *Surface and Coatings Technology*, **2018**, 345, 13-21	4.4	18
59	Experimental and numerical investigation on incremental sheet forming with flexible die-support from metallic foam. *Journal of Manufacturing Processes*, **2018**, 31, 605-612	5	15
58	The effect of laser ablation treatment on the chemistry, morphology and bonding strength of CFRP joints. *International Journal of Adhesion and Adhesives*, **2018**, 84, 325-334	3.4	32
57	Effect of Deep Cryogenic Treatment on Mechanical Properties and Microstructure of the Tool Steel CR7V for Hot Stamping. *Journal of Materials Engineering and Performance*, **2018**, 27, 4382-4391	1.6	5
56	Effect of Atmospheric Pressure Plasma Treatment on the Lap-Shear Strength of Adhesive-Bonded Sheet Molding Compound Joints. *Automotive Innovation*, **2018**, 1, 237-246	1.7	5
55	Cruciform specimen design for large plastic strain during biaxial tensile testing. *Journal of Physics: Conference Series*, **2018**, 1063, 012160	0.3	9
54	Plastic instabilities in AA5754-O under various stress states. *IOP Conference Series: Materials Science and Engineering*, **2018**, 418, 012050	0.4	3
53	Accurate characterization of biaxial stress-strain response of sheet metal from bulge testing. *International Journal of Plasticity*, **2017**, 94, 192-213	7.6	45
52	Electrically-assisted Incremental Sheet Forming of Advanced High Strength Steels. *Procedia Manufacturing*, **2017**, 7, 22-26	1.5	0
51	Comparison of DIC Methods of Determining Forming Limit Strains. *Procedia Manufacturing*, **2017**, 7, 668-674	1.5	14

50	An improved curvature method of detecting the onset of localized necking in Marciniak tests and its extension to Nakazima tests. *International Journal of Mechanical Sciences*, **2017**, 123, 238-252	5.5	19
49	Comparison of DIC Methods of Determining Necking Limit of PLC Material. *Conference Proceedings of the Society for Experimental Mechanics*, **2017**, 231-234	0.3	
48	Application of DIC techniques to detect onset of necking and fracture in uniaxial and bulge tests. *Journal of Physics: Conference Series*, **2017**, 896, 012108	0.3	2
47	Experimental and theoretical investigation on the role of friction in Nakazima testing. *International Journal of Mechanical Sciences*, **2017**, 133, 217-226	5.5	17
46	A Method of Detecting the Onset of Localized Necking Based on Surface Geometry Measurements. *Experimental Mechanics*, **2017**, 57, 521-535	2.6	14
45	Thermal modeling in electricity assisted incremental sheet forming. *International Journal of Material Forming*, **2017**, 10, 729-739	2	15
44	Springback prediction of sheet metals using improved material models. *Procedia Engineering*, **2017**, 207, 173-178		10
43	Prediction and Experimental Validation of Forming Limit Curve of a Quenched and Partitioned Steel. *Journal of Iron and Steel Research International*, **2016**, 23, 580-585	1.2	1
42	Compensation for process-dependent effects in the determination of localized necking limits. *International Journal of Mechanical Sciences*, **2016**, 117, 115-134	5.5	49
41	Elevated-temperature mechanical stability and transformation behavior of retained austenite in a quenching and partitioning steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 673, 423-429	5.3	29
40	Formability Evaluation of Sheet Metals Based on Global Strain Distribution. *Journal of Materials Engineering and Performance*, **2016**, 25, 2296-2306	1.6	4
39	A non-quadratic constitutive model under non-associated flow rule of sheet metals with anisotropic hardening: Modeling and experimental validation. *International Journal of Mechanical Sciences*, **2016**, 119, 343-359	5.5	34
38	Affected Zones in an Aluminum Alloy Frictionally Penetrated by a Blind Rivet. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2016**, 138,	3.3	12
37	Plastic instability at elevated temperatures in a TRIP-assisted steel. *Materials and Design*, **2016**, 95, 370-386	3.1	37
36	Advances in characterization of sheet metal forming limits. *Journal of Physics: Conference Series*, **2016**, 734, 032073	0.3	2
35	Constitutive model of friction stir weld with consideration of its inhomogeneous mechanical properties. *Chinese Journal of Mechanical Engineering (English Edition)*, **2016**, 29, 357-364	2.5	3
34	Spatio-temporal characteristics of plastic instability in AA5182-O during biaxial deformation. *Materials and Design*, **2015**, 83, 786-794	8.1	20
33	A new single-sided blind riveting method for joining dissimilar materials. *CIRP Annals - Manufacturing Technology*, **2015**, 64, 13-16	4.9	16

32	Mechanics in frictional penetration with a blind rivet. *Journal of Materials Processing Technology*, **2015**, 222, 268-279	5.3	18
31	Friction Stir Blind Riveting for Joining Dissimilar Cast Mg AM60 and Al Alloy Sheets. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2015**, 137,	3.3	23
30	Friction stir blind riveting for aluminum alloy sheets. *Journal of Materials Processing Technology*, **2015**, 215, 20-29	5.3	36
29	Friction stir blind riveting of carbon fiber-reinforced polymer composite and aluminum alloy sheets. *International Journal of Advanced Manufacturing Technology*, **2015**, 76, 1403-1410	3.2	50
28	Spatio-temporal characteristics of propagative plastic instabilities in a rare earth containing magnesium alloy. *International Journal of Plasticity*, **2014**, 57, 52-76	7.6	37
27	Forming limits of Mg alloy ZEK100 sheet in preform annealing process. *Materials & Design*, **2014**, 53, 947-953		7
26	Mechanical Property of Al Alloy Joints by Friction Stir Blind Riveting. *Procedia Engineering*, **2014**, 81, 2036-2041		15
25	Friction Stir Blind Riveting for Dissimilar Cast MG AM60 and Al Alloy Sheets **2014**,		1
24	Effect of strain rate on spatio-temporal behavior of Portevinâ□e Châ□elier bands in a twinning induced plasticity steel. *Mechanics of Materials*, **2014**, 68, 164-175	3.3	21
23	Analytical Method for Forming Limit Diagram Prediction with Application to a Magnesium ZEK100-O Alloy. *Journal of Materials Engineering and Performance*, **2013**, 22, 3324-3336	1.6	21
22	Effect of thermo-mechanical process on the microstructure and secondary-deformation behavior of 22MnB5 steels. *Journal of Materials Processing Technology*, **2013**, 213, 818-825	5.3	25
21	Effect of thermal exposure on the strength of adhesive-bonded low carbon steel. *International Journal of Adhesion and Adhesives*, **2013**, 43, 70-80	3.4	8
20	Anelastic behavior and phenomenological modeling of Mg ZEK100-O alloy sheet under cyclic tensile loadingâ□nloading. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 561, 174-182	5.3	24
19	Necking of Q&P steel during uniaxial tensile test with the aid of DIC technique. *Chinese Journal of Mechanical Engineering (English Edition)*, **2013**, 26, 448-453	2.5	9
18	Yield Point Elongation and Localized Deformation Bands in 22MnB5 Steel at Room Temperature. *Steel Research International*, **2013**, 84, 1216-1222	1.6	2
17	On the ferrite and bainite transformation in isothermally deformed 22MnB5 steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 550, 375-387	5.3	42
16	Thermo-Mechanical Analysis of a Cooling System for Hot Stamping Tools. *Advanced Materials Research*, **2012**, 538-541, 2053-2060	0.5	
15	Comparison of Tensile Properties and Crystallographic Textures of Three Magnesium Alloy Sheets **2012**, 355-360		

14	Indirect Hot Stamping of Boron Steel 22MnB5 for an Upper B-Pillar. *Advanced Materials Research*, **2011**, 314-316, 703-708	0.5	
13	Investigation on Dynamic Recovery Behavior of Boron Steel 22MnB5 under Austenite State at Elevated Temperatures. *SAE International Journal of Materials and Manufacturing*, **2011**, 4, 1147-1154	1	3
12	Investigation on the Effects of Sheet Thickness and Deformation Temperature on the Forming Limits of Boron Steel 22MnB5. *Key Engineering Materials*, **2011**, 474-476, 993-997	0.4	6
11	Effect of Deformation Temperature on the Microstructure of Boron Steel 22MnB5. *Advanced Science Letters*, **2011**, 4, 938-942	0.1	3
10	Investigation on hot forming limits of high strength steel 22MnB5. *Computational Materials Science*, **2010**, 49, 326-332	3.2	63
9	Effect of necking types of sheet metal on the left-hand side of forming limit diagram. *Journal of Materials Processing Technology*, **2010**, 210, 1070-1075	5.3	17
8	Investigation on Uniaxial Tensile Instability of USIBOR1500 Steel Sheets at Elevated Temperature. *Chinese Journal of Mechanical Engineering (English Edition)*, **2010**, 23, 94	2.5	3
7	Investigation on Influence Factors of Bulging of Boren Steel at Elevated Temperature. *Materials Science Forum*, **2009**, 628-629, 563-568	0.4	
6	Fabrication processes of metal-fiber reinforced polymer hybrid components: a review. *Advanced Composites and Hybrid Materials*,1	8.7	3
5	Joint stiffness identification of industrial serial robots using 3D digital image correlation techniques. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*,095440622110028	1.3	0
4	Effect of Rapid Heating on Microstructure and Tensile Properties of a Novel Coating-Free Oxidation-Resistant Press-Hardening Steel. *Jom*,1	2.1	0
3	Analytical modeling for the axial compression performance of steel-fiber-reinforced polymer hybrid laminates. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*,095440622110197	1.3	
2	Comparison of Tensile Properties and Crystallographic Texture of Three Magnesium Alloy Sheets355-360		5
1	Tensile Properties of Three Preform-Annealed Magnesium Alloy Sheets443-448		2