

# Junying Min

## List of Publications by Citations

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

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 85 | Investigation on hot forming limits of high strength steel 22MnB5. <i>Computational Materials Science</i> , <b>2010</b> , 49, 326-332   | 3.2  | 63        |
| 84 | Friction stir blind riveting of carbon fiber-reinforced polymer composite and aluminum alloy sheets. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 76, 1403-1410  | 3.2  | 50        |
| 83 | Compensation for process-dependent effects in the determination of localized necking limits. <i>International Journal of Mechanical Sciences</i> , <b>2016</b> , 117, 115-134   | 5.5  | 49        |
| 82 | Accurate characterization of biaxial stress-strain response of sheet metal from bulge testing. <i>International Journal of Plasticity</i> , <b>2017</b> , 94, 192-213   | 7.6  | 45        |
| 81 | On the ferrite and bainite transformation in isothermally deformed 22MnB5 steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 550, 375-387  | 5.3  | 42        |
| 80 | Plastic instability at elevated temperatures in a TRIP-assisted steel. <i>Materials and Design</i> , <b>2016</b> , 95, 370-386  | 3.86 | 37        |
| 79 | Spatio-temporal characteristics of propagative plastic instabilities in a rare earth containing magnesium alloy. <i>International Journal of Plasticity</i> , <b>2014</b> , 57, 52-76   | 7.6  | 37        |
| 78 | Friction stir blind riveting for aluminum alloy sheets. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 215, 20-29  | 5.3  | 36        |
| 77 | A non-quadratic constitutive model under non-associated flow rule of sheet metals with anisotropic hardening: Modeling and experimental validation. <i>International Journal of Mechanical Sciences</i> , <b>2016</b> , 119, 343-359  | 5.5  | 34        |
| 76 | The effect of laser ablation treatment on the chemistry, morphology and bonding strength of CFRP joints. <i>International Journal of Adhesion and Adhesives</i> , <b>2018</b> , 84, 325-334   | 3.4  | 32        |
| 75 | Models and modelling for process limits in metal forming. <i>CIRP Annals - Manufacturing Technology</i> , <b>2019</b> , 68, 775-798   | 4.9  | 29        |
| 74 | Application of laser ablation in adhesive bonding of metallic materials: A review. <i>Optics and Laser Technology</i> , <b>2020</b> , 128, 106188   | 4.2  | 29        |
| 73 | Elevated-temperature mechanical stability and transformation behavior of retained austenite in a quenching and partitioning steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 673, 423-429 | 5.3  | 29        |
| 72 | Effect of thermo-mechanical process on the microstructure and secondary-deformation behavior of 22MnB5 steels. <i>Journal of Materials Processing Technology</i> , <b>2013</b> , 213, 818-825   | 5.3  | 25        |
| 71 | A non-quadratic pressure-sensitive constitutive model under non-associated flow rule with anisotropic hardening: Modeling and validation. <i>International Journal of Plasticity</i> , <b>2020</b> , 135, 102808  | 7.6  | 24        |
| 70 | Anelastic behavior and phenomenological modeling of Mg ZEK100-O alloy sheet under cyclic tensile loading&ndash;unloading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 561, 174-182          | 5.3  | 24        |
| 69 | Friction Stir Blind Riveting for Joining Dissimilar Cast Mg AM60 and Al Alloy Sheets. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2015</b> , 137,  | 3.3  | 23        |

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| 68 | Analytical Method for Forming Limit Diagram Prediction with Application to a Magnesium ZEK100-O Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 3324-3336   | 1.6 | 21 |
| 67 | Effect of strain rate on spatio-temporal behavior of Portevin-Le Châtelier bands in a twinning induced plasticity steel. <i>Mechanics of Materials</i> , <b>2014</b> , 68, 164-175   | 3.3 | 21 |
| 66 | Effect of atmospheric pressure plasma treatment on surface physicochemical properties of carbon fiber reinforced polymer and its interfacial bonding strength with adhesive. <i>Composites Part B: Engineering</i> , <b>2020</b> , 199, 108237 | 10  | 21 |
| 65 | Spatio-temporal characteristics of plastic instability in AA5182-O during biaxial deformation. <i>Materials and Design</i> , <b>2015</b> , 83, 786-794   | 8.1 | 20 |
| 64 | Investigation of evolving yield surfaces of dual-phase steels. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 287, 116314   | 5.3 | 20 |
| 63 | An improved curvature method of detecting the onset of localized necking in Marciniak tests and its extension to Nakazima tests. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 123, 238-252                              | 5.5 | 19 |
| 62 | Application of pulsed Yb: Fiber laser to surface treatment of Al alloys for improved adhesive bonded performance. <i>Optics and Lasers in Engineering</i> , <b>2019</b> , 119, 65-76   | 4.6 | 18 |
| 61 | Mechanics in frictional penetration with a blind rivet. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 222, 268-279   | 5.3 | 18 |
| 60 | Effect of laser ablation treatment on corrosion resistance of adhesive-bonded Al alloy joints. <i>Surface and Coatings Technology</i> , <b>2018</b> , 345, 13-21   | 4.4 | 18 |
| 59 | Experimental and theoretical investigation on the role of friction in Nakazima testing. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 133, 217-226   | 5.5 | 17 |
| 58 | Effect of necking types of sheet metal on the left-hand side of forming limit diagram. <i>Journal of Materials Processing Technology</i> , <b>2010</b> , 210, 1070-1075  | 5.3 | 17 |
| 57 | A new single-sided blind riveting method for joining dissimilar materials. <i>CIRP Annals - Manufacturing Technology</i> , <b>2015</b> , 64, 13-16   | 4.9 | 16 |
| 56 | Effect of Atmospheric Pressure Plasma Treatment on Adhesive Bonding of Carbon Fiber Reinforced Polymer. <i>Polymers</i> , <b>2019</b> , 11,  | 4.5 | 16 |
| 55 | Effect of constitutive model on springback prediction of MP980 and AA6022-T4. <i>International Journal of Material Forming</i> , <b>2020</b> , 13, 1-13  | 2   | 16 |
| 54 | Experimental and numerical investigation on incremental sheet forming with flexible die-support from metallic foam. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 31, 605-612  | 5   | 15 |
| 53 | Mechanical Property of Al Alloy Joints by Friction Stir Blind Riveting. <i>Procedia Engineering</i> , <b>2014</b> , 81, 2036-2041  | 15  |    |
| 52 | Thermal modeling in electricity assisted incremental sheet forming. <i>International Journal of Material Forming</i> , <b>2017</b> , 10, 729-739   | 2   | 15 |
| 51 | Comparison of DIC Methods of Determining Forming Limit Strains. <i>Procedia Manufacturing</i> , <b>2017</b> , 7, 668-674   | 14  |    |

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|----|---|-----|----|
| 50 | A Method of Detecting the Onset of Localized Necking Based on Surface Geometry Measurements. <i>Experimental Mechanics</i> , <b>2017</b> , 57, 521-535  | 2.6 | 14 |
| 49 | Flexural Performance of Steelâ€RP Composites for Automotive Applications. <i>Automotive Innovation</i> , <b>2020</b> , 3, 280-295   | 1.7 | 13 |
| 48 | Affected Zones in an Aluminum Alloy Frictionally Penetrated by a Blind Rivet. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2016</b> , 138,  | 3.3 | 12 |
| 47 | A thin-walled structure with tailored properties for axial crushing. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 157-158, 119-135   | 5.5 | 11 |
| 46 | Springback prediction of sheet metals using improved material models. <i>Procedia Engineering</i> , <b>2017</b> , 207, 173-178  |     | 10 |
| 45 | Effect of laser spot overlap ratio on surface characteristics and adhesive bonding strength of an Al alloy processed by nanosecond pulsed laser. <i>Journal of Manufacturing Processes</i> , <b>2021</b> , 62, 555-565              | 5   | 10 |
| 44 | Necking of Q&P steel during uniaxial tensile test with the aid of DIC technique. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2013</b> , 26, 448-453   | 2.5 | 9  |
| 43 | Evolving asymmetric yield surfaces of quenching and partitioning steels: Characterization and modeling. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 290, 116979   | 5.3 | 9  |
| 42 | Cruciform specimen design for large plastic strain during biaxial tensile testing. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1063, 012160  | 0.3 | 9  |
| 41 | Effect of thermal exposure on the strength of adhesive-bonded low carbon steel. <i>International Journal of Adhesion and Adhesives</i> , <b>2013</b> , 43, 70-80  | 3.4 | 8  |
| 40 | Forming limits of Mg alloy ZEK100 sheet in preform annealing process. <i>Materials &amp; Design</i> , <b>2014</b> , 53, 947-953   |     | 7  |
| 39 | Spindle-Shaped Surface Microstructure Inspired by Directional Water Collection Biosystems to Enhance Interfacial Wetting and Bonding Strength. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13760-13770        | 9.5 | 7  |
| 38 | Investigation on the Effects of Sheet Thickness and Deformation Temperature on the Forming Limits of Boron Steel 22MnB5. <i>Key Engineering Materials</i> , <b>2011</b> , 474-476, 993-997  | 0.4 | 6  |
| 37 | Effect of adhesive type on mechanical properties of galvanized steel/SMC adhesive-bonded joints. <i>International Journal of Adhesion and Adhesives</i> , <b>2020</b> , 97, 102482  | 3.4 | 6  |
| 36 | Prediction of Cross-Tension Strength of Self-Piercing Riveted Joints Using Finite Element Simulation and XGBoost Algorithm. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2021</b> , 34,                  | 2.5 | 6  |
| 35 | Flow drill riveting of carbon fiber-reinforced polymer and aluminum alloy sheets. <i>Welding in the World, Le Soudage Dans Le Monde</i> , <b>2019</b> , 63, 1013-1024   | 1.9 | 5  |
| 34 | Effect of Deep Cryogenic Treatment on Mechanical Properties and Microstructure of the Tool Steel CR7V for Hot Stamping. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 4382-4391                       | 1.6 | 5  |
| 33 | Effect of tension-compression testing strategy on kinematic model calibration and springback simulation of advanced high strength steels. <i>International Journal of Material Forming</i> , <b>2021</b> , 14, 435-448 <sup>2</sup> |     | 5  |

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| 32 | Effect of Atmospheric Pressure Plasma Treatment on the Lap-Shear Strength of Adhesive-Bonded Sheet Molding Compound Joints. <i>Automotive Innovation</i> , <b>2018</b> , 1, 237-246                           | 1.7 | 5 |
| 31 | Comparison of Tensile Properties and Crystallographic Texture of Three Magnesium Alloy Sheets355-360  |     | 5 |
| 30 | Formability Evaluation of Sheet Metals Based on Global Strain Distribution. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 2296-2306   | 1.6 | 4 |
| 29 | Investigation on Dynamic Recovery Behavior of Boron Steel 22MnB5 under Austenite State at Elevated Temperatures. <i>SAE International Journal of Materials and Manufacturing</i> , <b>2011</b> , 4, 1147-1154 | 1   | 3 |
| 28 | Fabrication processes of metal-fiber reinforced polymer hybrid components: a review. <i>Advanced Composites and Hybrid Materials</i> ,1   | 8.7 | 3 |
| 27 | Effect of Deformation Temperature on the Microstructure of Boron Steel 22MnB5. <i>Advanced Science Letters</i> , <b>2011</b> , 4, 938-942   | 0.1 | 3 |
| 26 | Investigation on Uniaxial Tensile Instability of USIBOR1500 Steel Sheets at Elevated Temperature. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2010</b> , 23, 94                   | 2.5 | 3 |
| 25 | Effect of adherend deflection on lap-shear tensile strength of laser-treated adhesive-bonded joints. <i>International Journal of Adhesion and Adhesives</i> , <b>2020</b> , 97, 102481                        | 3.4 | 3 |
| 24 | Constitutive model of friction stir weld with consideration of its inhomogeneous mechanical properties. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2016</b> , 29, 357-364        | 2.5 | 3 |
| 23 | Effect of neutral salt spray (NSS) exposure on the lap-shear strength of adhesive-bonded 5052 aluminum alloy (AA5052) joints. <i>Journal of Adhesion Science and Technology</i> , <b>2019</b> , 33, 549-560   | 2   | 3 |
| 22 | Plastic instabilities in AA5754-O under various stress states. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 418, 012050  | 0.4 | 3 |
| 21 | Application of DIC techniques to detect onset of necking and fracture in uniaxial and bulge tests. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 896, 012108                                   | 0.3 | 2 |
| 20 | Yield Point Elongation and Localized Deformation Bands in 22MnB5 Steel at Room Temperature. <i>Steel Research International</i> , <b>2013</b> , 84, 1216-1222   | 1.6 | 2 |
| 19 | Investigation on Yield Behavior of 7075-T6 Aluminum Alloy at Elevated Temperatures. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2020</b> , 33,                                    | 2.5 | 2 |
| 18 | Advances in characterization of sheet metal forming limits. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032073  | 0.3 | 2 |
| 17 | Laser-assisted conduction joining of carbon fiber reinforced sheet molding compound to dual-phase steel by a polycarbonate interlayer. <i>Optics and Laser Technology</i> , <b>2021</b> , 133, 106561         | 4.2 | 2 |
| 16 | Tensile Properties of Three Preform-Annealed Magnesium Alloy Sheets443-448  |     | 2 |
| 15 | Prediction and Experimental Validation of Forming Limit Curve of a Quenched and Partitioned Steel. <i>Journal of Iron and Steel Research International</i> , <b>2016</b> , 23, 580-585                        | 1.2 | 1 |

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| 14 | Friction Stir Blind Riveting for Dissimilar Cast MG AM60 and Al Alloy Sheets <b>2014</b> ,   |     | 1 |
| 13 | Thermo-mechanical modeling of flow drilling with a conical-tipped blind rivet. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2022</b> , 36, 158-171   | 3.4 | 1 |
| 12 | Experimental and theoretical studies on laser treatment strategies for improving shear bonding strength of structural adhesive joints with cast aluminum. <i>Composite Structures</i> , <b>2022</b> , 279, 114831                                | 5.3 | 1 |
| 11 | Experimental characterization and modeling of complex anisotropic hardening in quenching and partitioning (Q&P) steel subject to biaxial non-proportional loadings. <i>International Journal of Plasticity</i> , <b>2022</b> , 103347            | 7.6 | 1 |
| 10 | Electrically-assisted Incremental Sheet Forming of Advanced High Strength Steels. <i>Procedia Manufacturing</i> , <b>2017</b> , 7, 22-26   | 1.5 | 0 |
| 9  | Joint stiffness identification of industrial serial robots using 3D digital image correlation techniques. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110028     | 1.3 | 0 |
| 8  | Effect of Rapid Heating on Microstructure and Tensile Properties of a Novel Coating-Free Oxidation-Resistant Press-Hardening Steel. <i>Jom</i> , 1   | 2.1 | 0 |
| 7  | Comparison of DIC Methods of Determining Necking Limit of PLC Material. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2017</b> , 231-234  | 0.3 |   |
| 6  | Indirect Hot Stamping of Boron Steel 22MnB5 for an Upper B-Pillar. <i>Advanced Materials Research</i> , <b>2011</b> , 314-316, 703-708   | 0.5 |   |
| 5  | Investigation on Influence Factors of Bulging of Bore Steel at Elevated Temperature. <i>Materials Science Forum</i> , <b>2009</b> , 628-629, 563-568   | 0.4 |   |
| 4  | Thermo-Mechanical Analysis of a Cooling System for Hot Stamping Tools. <i>Advanced Materials Research</i> , <b>2012</b> , 538-541, 2053-2060   | 0.5 |   |
| 3  | Comparison of Tensile Properties and Crystallographic Textures of Three Magnesium Alloy Sheets <b>2012</b> , 355-360   |     |   |
| 2  | Analytical modeling for the axial compression performance of steel-fiber-reinforced polymer hybrid laminates. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110197 | 1.3 |   |
| 1  | Experimental study on heat-affected zones of aluminum alloys in flow drill riveting. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 18, 1230-1244   | 5.5 |   |