

# Paulo Af Martins

## List of Publications by Year in descending order

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315  
papers

5,764  
citations

109137

35  
h-index

133063

59  
g-index

325  
all docs

325  
docs citations

325  
times ranked

1996  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Theory of single point incremental forming. CIRP Annals - Manufacturing Technology, 2008, 57, 247-252.   | 1.7 | 222       |
| 2  | Single-point incremental forming and formability failure diagrams. Journal of Strain Analysis for Engineering Design, 2008, 43, 15-35.   | 1.0 | 183       |
| 3  | Formability limits by fracture in sheet metal forming. Journal of Materials Processing Technology, 2014, 214, 1557-1565.   | 3.1 | 180       |
| 4  | Revisiting the fundamentals of single point incremental forming by means of membrane analysis. International Journal of Machine Tools and Manufacture, 2008, 48, 73-83.            | 6.2 | 157       |
| 5  | Failure mechanisms in single-point incremental forming of metals. International Journal of Advanced Manufacturing Technology, 2011, 56, 893-903.                                   | 1.5 | 154       |
| 6  | Single point incremental forming of PVC. Journal of Materials Processing Technology, 2009, 209, 462-469.   | 3.1 | 126       |
| 7  | Single point incremental forming of polymers. CIRP Annals - Manufacturing Technology, 2009, 58, 229-232.   | 1.7 | 122       |
| 8  | Expansion and reduction of thin-walled tubes using a die: Experimental and theoretical investigation. International Journal of Machine Tools and Manufacture, 2006, 46, 1643-1652. | 6.2 | 119       |
| 9  | Fracture predicting in bulk metal forming. International Journal of Mechanical Sciences, 1996, 38, 361-372.  | 3.6 | 115       |
| 10 | Characterization of fracture loci in metal forming. International Journal of Mechanical Sciences, 2014, 83, 112-123.   | 3.6 | 112       |
| 11 | Ductile fracture in metalworking: experimental and theoretical research. Journal of Materials Processing Technology, 2000, 101, 52-63.   | 3.1 | 104       |
| 12 | Hole-flanging by incremental sheet forming. International Journal of Machine Tools and Manufacture, 2012, 59, 46-54.   | 6.2 | 83        |
| 13 | Strategies and limits in multi-stage single-point incremental forming. Journal of Strain Analysis for Engineering Design, 2010, 45, 33-44.   | 1.0 | 72        |
| 14 | On the potential of single point incremental forming of sheet polymer parts. International Journal of Advanced Manufacturing Technology, 2012, 60, 75-86.                          | 1.5 | 70        |
| 15 | Single point incremental forming of tailored blanks produced by friction stir welding. Journal of Materials Processing Technology, 2009, 209, 811-820.                             | 3.1 | 68        |
| 16 | End forming of thin-walled tubes. Journal of Materials Processing Technology, 2006, 177, 183-187.  | 3.1 | 66        |
| 17 | External inversion of thin-walled tubes using a die: experimental and theoretical investigation. International Journal of Machine Tools and Manufacture, 2003, 43, 787-796.        | 6.2 | 64        |
| 18 | Joining sheet panels to thin-walled tubular profiles by tube end forming. Journal of Cleaner Production, 2011, 19, 712-719.  | 4.6 | 62        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Revisiting the Fundamentals and Capabilities of the Stack Compression Test. <i>Experimental Mechanics</i> , 2011, 51, 1565-1572.  | 1.1 | 60        |
| 20 | Revisiting single-point incremental forming and formability/failure diagrams by means of finite elements and experimentation. <i>Journal of Strain Analysis for Engineering Design</i> , 2009, 44, 221-234. | 1.0 | 59        |
| 21 | Friction in bulk metal forming: a general friction model vs. the law of constant friction. <i>Journal of Materials Processing Technology</i> , 1997, 66, 186-194.   | 3.1 | 58        |
| 22 | Accuracy, reliability and validity of finite element analysis in metal forming: a user's perspective. <i>Engineering Computations</i> , 2009, 26, 1026-1055.  | 0.7 | 57        |
| 23 | Hybrid metal additive manufacturing: A state-of-the-art review. <i>Advances in Industrial and Manufacturing Engineering</i> , 2021, 2, 100032.  | 1.2 | 57        |
| 24 | Two-Point Incremental Forming with Partial Die: Theory and Experimentation. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 1018-1027.  | 1.2 | 56        |
| 25 | Single point incremental forming of PVC: Experimental findings and theoretical interpretation. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 557-566.  | 2.1 | 54        |
| 26 | Weld bonding of stainless steel. <i>International Journal of Machine Tools and Manufacture</i> , 2004, 44, 1431-1439.   | 6.2 | 51        |
| 27 | Revisiting the fundamentals of metal cutting by means of finite elements and ductile fracture mechanics. <i>International Journal of Machine Tools and Manufacture</i> , 2007, 47, 607-617.                 | 6.2 | 51        |
| 28 | On the utilisation of ductile fracture criteria in cold forging. <i>Finite Elements in Analysis and Design</i> , 2003, 39, 175-186.   | 1.7 | 48        |
| 29 | Review on mechanical joining by plastic deformation. <i>Journal of Advanced Joining Processes</i> , 2022, 5, 100113.  | 1.5 | 43        |
| 30 | Modeling of Thermo-Electro-Mechanical Manufacturing Processes. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2013, , .   | 0.2 | 41        |
| 31 | Revisiting the formability limits by fracture in sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2015, 217, 184-192.   | 3.1 | 41        |
| 32 | Internal inversion of thin-walled tubes using a die: experimental and theoretical investigation. <i>International Journal of Machine Tools and Manufacture</i> , 2004, 44, 775-784.                         | 6.2 | 40        |
| 33 | Incremental Forming of Hole-Flanges in Polymer Sheets. <i>Materials and Manufacturing Processes</i> , 2013, 28, 330-335.  | 2.7 | 40        |
| 34 | Single point incremental forming of a facial implant. <i>Prosthetics and Orthotics International</i> , 2014, 38, 369-378.   | 0.5 | 39        |
| 35 | Failure in single point incremental forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 80, 1471-1479.   | 1.5 | 39        |
| 36 | Simulation of three-dimensional bulk forming processes by finite element flow formulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2003, 11, 803-821.                        | 0.8 | 38        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | An alternative ring-test geometry for the evaluation of friction under low normal pressure. Journal of Materials Processing Technology, 1998, 79, 14-24.   | 3.1 | 37        |
| 38 | Fracture in hole-flanging produced by single point incremental forming. International Journal of Mechanical Sciences, 2014, 83, 146-154.   | 3.6 | 37        |
| 39 | Friction Compensation in the Upsetting of Cylindrical Test Specimens. Experimental Mechanics, 2016, 56, 1271-1279.   | 1.1 | 37        |
| 40 | Formability of a wire arc deposited aluminium alloy. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4059-4068.   | 0.8 | 36        |
| 41 | Cold expansion and reduction of thin-walled PVC tubes using a die. Journal of Materials Processing Technology, 2009, 209, 4229-4236.   | 3.1 | 34        |
| 42 | End-to-end joining of tubes by plastic instability. Journal of Materials Processing Technology, 2014, 214, 1954-1961.  | 3.1 | 34        |
| 43 | On the determination of forming limits in thin-walled tubes. International Journal of Mechanical Sciences, 2019, 155, 381-391.   | 3.6 | 34        |
| 44 | Cold forging of gears: experimental and theoretical investigation. Finite Elements in Analysis and Design, 2001, 37, 549-558.  | 1.7 | 33        |
| 45 | Three-dimensional modelling of forging processes by the finite element flow formulation. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2004, 218, 1695-1707. | 1.5 | 32        |
| 46 | The transient beginning to machining and the transition to steady-state cutting. International Journal of Machine Tools and Manufacture, 2007, 47, 1904-1915.  | 6.2 | 32        |
| 47 | Tube branching by asymmetric compression beading. Journal of Materials Processing Technology, 2012, 212, 1200-1208.  | 3.1 | 31        |
| 48 | Modelling of real area of contact between tool and workpiece in metal forming processes including the influence of subsurface deformation. CIRP Annals - Manufacturing Technology, 2016, 65, 261-264.              | 1.7 | 31        |
| 49 | Three-dimensional finite element contact algorithm for metal forming. International Journal for Numerical Methods in Engineering, 1990, 30, 1341-1354.   | 1.5 | 30        |
| 50 | FINITE ELEMENT REMESHING: A METAL FORMING APPROACH FOR QUADRILATERAL MESH GENERATION AND REFINEMENT. International Journal for Numerical Methods in Engineering, 1997, 40, 1449-1464.                              | 1.5 | 30        |
| 51 | An investigation on the external inversion of thin-walled tubes using a die. International Journal of Plasticity, 2004, 20, 1931-1946.   | 4.1 | 30        |
| 52 | Simulation of bulk metal forming processes using the reproducing kernel particle method. Computers and Structures, 2005, 83, 574-587.  | 2.4 | 30        |
| 53 | Integration of Forming Operations on Hybrid Additive Manufacturing Systems Based on Fusion Welding. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 595-607.         | 2.7 | 30        |
| 54 | Finite-element modelling of cold forward extrusion. Journal of Materials Processing Technology, 1999, 94, 85-93.   | 3.1 | 29        |

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|----|--|-----|-----------|
| 55 | Plastic flow and failure in single point incremental forming of PVC sheets. EXPRESS Polymer Letters, 2014, 8, 301-311.   | 1.1 | 29        |
| 56 | Revisiting the wrinkling limits in flexible roll forming. Journal of Strain Analysis for Engineering Design, 2015, 50, 528-541.  | 1.0 | 29        |
| 57 | Friction studies at different normal pressures with alternative ring-compression tests. Journal of Materials Processing Technology, 1998, 80-81, 292-297.                                    | 3.1 | 28        |
| 58 | Innovative Testing Machines and Methodologies for the Mechanical Characterization of Materials. Experimental Techniques, 2016, 40, 569-581.  | 0.9 | 28        |
| 59 | Joining tubes to sheets by boss forming and upsetting. Journal of Materials Processing Technology, 2018, 252, 773-781.   | 3.1 | 28        |
| 60 | Compression beading and nosing of thin-walled tubes using a die: experimental and theoretical investigation. International Journal of Mechanics and Materials in Design, 2007, 3, 7-16.      | 1.7 | 26        |
| 61 | Single-stroke mechanical joining of sheet panels to tubular profiles. Journal of Manufacturing Processes, 2013, 15, 151-157.   | 2.8 | 26        |
| 62 | 3D numerical simulation of projection welding of square nuts to sheets. Journal of Materials Processing Technology, 2015, 215, 171-180.  | 3.1 | 26        |
| 63 | Application of the element free Galerkin method to the simulation of plane strain rolling. European Journal of Mechanics, A/Solids, 2004, 23, 77-93.   | 2.1 | 25        |
| 64 | Failure by fracture in bulk metal forming. Journal of Materials Processing Technology, 2015, 215, 287-298.   | 3.1 | 25        |
| 65 | Finite element remeshing in metal forming using hexahedral elements. Journal of Materials Processing Technology, 2003, 141, 395-403.   | 3.1 | 24        |
| 66 | Fracture toughness and failure limits in sheet metal forming. Journal of Materials Processing Technology, 2016, 234, 249-258.  | 3.1 | 24        |
| 67 | Three-dimensional modelling of the vertical horizontal rolling process. Finite Elements in Analysis and Design, 2003, 39, 1023-1037.   | 1.7 | 23        |
| 68 | An innovative electromagnetic compressive split Hopkinson bar. International Journal of Mechanics and Materials in Design, 2009, 5, 281-288.   | 1.7 | 23        |
| 69 | Mechanics of sheet-bulk indentation. Journal of Materials Processing Technology, 2014, 214, 2387-2394.   | 3.1 | 23        |
| 70 | Boss forming of annular flanges in thin-walled tubes. Journal of Materials Processing Technology, 2017, 250, 182-189.  | 3.1 | 23        |
| 71 | On the formability limits of thin-walled tube inversion using different die fillet radii. Thin-Walled Structures, 2019, 144, 106328.   | 2.7 | 23        |
| 72 | On the utilization of the reproducing kernel particle method for the numerical simulation of plane strain rolling. International Journal of Machine Tools and Manufacture, 2003, 43, 89-102. | 6.2 | 22        |

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|----|---|-----|-----------|
| 73 | Surface roughness and material strength of tribo-pairs in ring compression tests. Tribology International, 2011, 44, 134-143.   | 3.0 | 22        |
| 74 | A new approach for deformation history of material elements in hole-flanging produced by single point incremental forming. International Journal of Advanced Manufacturing Technology, 2013, 69, 1175-1183. | 1.5 | 22        |
| 75 | Towards the characterization of fracture in thin-walled tube forming. International Journal of Mechanical Sciences, 2016, 119, 12-22.   | 3.6 | 22        |
| 76 | Finite element modelling of cold forward extrusion using updated Lagrangian and combined Eulerian-Lagrangian formulations. Journal of Materials Processing Technology, 1998, 80-81, 647-652.                | 3.1 | 21        |
| 77 | All-hexahedral remeshing for the finite element analysis of metal forming processes. Finite Elements in Analysis and Design, 2007, 43, 666-679.   | 1.7 | 21        |
| 78 | Environmentally friendly joining of tubes by their ends. Journal of Cleaner Production, 2015, 87, 777-786.  | 4.6 | 21        |
| 79 | Three-dimensional simulation of flat rolling through a combined finite element-boundary element approach. Finite Elements in Analysis and Design, 1999, 32, 221-233.  | 1.7 | 20        |
| 80 | Three-dimensional thermo-mechanical finite element simulation of the vertical-horizontal rolling process. Journal of Materials Processing Technology, 2001, 110, 89-97.                                     | 3.1 | 20        |
| 81 | Physical modelling and numerical simulation of the round-to-square forward extrusion. Journal of Materials Processing Technology, 2001, 112, 244-251.   | 3.1 | 20        |
| 82 | Sheet-bulk forming of tubes for joining applications. Journal of Materials Processing Technology, 2017, 240, 154-161.   | 3.1 | 20        |
| 83 | Formability Limits, Fractography and Fracture Toughness in Sheet Metal Forming. Materials, 2019, 12, 1493.  | 1.3 | 19        |
| 84 | Review of research into the injection forging of tubular materials. Journal of Materials Processing Technology, 1995, 52, 460-471.  | 3.1 | 18        |
| 85 | Finite element modelling of the initial stages of a hot forging cycle. Finite Elements in Analysis and Design, 2002, 38, 295-305.   | 1.7 | 18        |
| 86 | Numerical solution of bulk metal forming processes by the reproducing kernel particle method. Journal of Materials Processing Technology, 2006, 177, 49-52.   | 3.1 | 18        |
| 87 | Tube joining by asymmetric plastic instability. Journal of Materials Processing Technology, 2014, 214, 132-140.   | 3.1 | 18        |
| 88 | Recent Approaches for the Determination of Forming Limits by Necking and Fracture in Sheet Metal Forming. Procedia Engineering, 2015, 132, 342-349.   | 1.2 | 18        |
| 89 | Double-sided self-pierce riveting. International Journal of Advanced Manufacturing Technology, 2020, 108, 1541-1549.  | 1.5 | 18        |
| 90 | The use of dual-stream functions in the analysis of three-dimensional metal forming processes. International Journal of Mechanical Sciences, 1991, 33, 313-323.   | 3.6 | 17        |

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|-----|---|-----|-----------|
| 91  | Upper bound analysis of plane strain rolling using a flow function and the weighted residuals method. International Journal for Numerical Methods in Engineering, 1999, 44, 1671-1683.                                | 1.5 | 17        |
| 92  | Stamping of automotive components: a numerical and experimental investigation. Journal of Materials Processing Technology, 2004, 155-156, 1489-1496.  | 3.1 | 17        |
| 93  | Coupled Finite Element Flow Formulation. SpringerBriefs in Applied Sciences and Technology, 2013, , 11-36.  | 0.2 | 17        |
| 94  | A new joining by forming process to produce lap joints in metal sheets. CIRP Annals - Manufacturing Technology, 2018, 67, 301-304.  | 1.7 | 17        |
| 95  | Joining aluminium profiles to composite sheets by additive manufacturing and forming. Journal of Materials Processing Technology, 2020, 279, 116587.  | 3.1 | 17        |
| 96  | A new yield function for porous materials. Journal of Materials Processing Technology, 2006, 179, 36-43.  | 3.1 | 16        |
| 97  | Physical modeling and numerical simulation of V-die forging ingot with central void. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 2347-2356. | 1.1 | 16        |
| 98  | Theory of single point incremental forming of tubes. Journal of Materials Processing Technology, 2021, 287, 116659.   | 3.1 | 16        |
| 99  | Static and Fatigue Performance of Weld-Bonded Stainless Steel Joints. Materials and Manufacturing Processes, 2006, 21, 774-778.   | 2.7 | 15        |
| 100 | Joining stainless steel parts by means of weld bonding. International Journal of Mechanics and Materials in Design, 2007, 3, 91-101.  | 1.7 | 15        |
| 101 | Cutting under active and inert gas shields: A contribution to the mechanics of chip flow. International Journal of Machine Tools and Manufacture, 2010, 50, 892-900.  | 6.2 | 15        |
| 102 | Single Point Incremental Forming of a Medical Implant. Key Engineering Materials, 0, 554-557, 1388-1393.  | 0.4 | 15        |
| 103 | Inclined Tube Heat Plastically Deformed Joints. Steel Research International, 2014, 85, 67-75.  | 1.0 | 15        |
| 104 | Hole-flanging of metals and polymers produced by single point incremental forming. International Journal of Materials and Product Technology, 2015, 50, 37.   | 0.1 | 15        |
| 105 | Incipient and repeatable plastic flow in incremental sheet-bulk forming of gears. International Journal of Advanced Manufacturing Technology, 2016, 86, 3091-3100.  | 1.5 | 15        |
| 106 | Model3A three-dimensional mesh generator. Computers and Structures, 1992, 42, 511-529.  | 2.4 | 14        |
| 107 | Development of an industrial process for minting a new type of bimetallic coin. Journal of Materials Processing Technology, 1997, 70, 178-184.  | 3.1 | 14        |
| 108 | Simulation of plane strain rolling through a combined finite element boundary element approach. Journal of Materials Processing Technology, 1999, 96, 173-181.  | 3.1 | 14        |

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|-----|---|-----|-----------|
| 109 | Automatic generation of quadrilateral meshes for the finite element analysis of metal forming processes. <i>Finite Elements in Analysis and Design</i> , 2000, 35, 157-168.                                       | 1.7 | 14        |
| 110 | Forming of thin-walled hollow spheres using sacrificial polymer mandrels. <i>International Journal of Machine Tools and Manufacture</i> , 2009, 49, 521-529.  | 6.2 | 14        |
| 111 | Nosing of thin-walled PVC tubes into hollow spheres using a die. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 44, 26-37.   | 1.5 | 14        |
| 112 | Fabrication of small size seamless reservoirs by tube forming. <i>International Journal of Pressure Vessels and Piping</i> , 2011, 88, 239-247.   | 1.2 | 14        |
| 113 | Flexible forming tool concept for producing crankshafts. <i>Journal of Materials Processing Technology</i> , 2011, 211, 467-474.  | 3.1 | 14        |
| 114 | Joining by forming of additive manufactured "mortise-and-tenon" joints. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019, 233, 166-173.           | 1.5 | 14        |
| 115 | Injection lap riveting. <i>CIRP Annals - Manufacturing Technology</i> , 2021, 70, 261-264.  | 1.7 | 14        |
| 116 | Double-sided self-pierce riveting of dissimilar materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 3679-3687.  | 1.5 | 14        |
| 117 | Production of tubular components by radial extrusion " a finite element analysis. <i>Journal of Materials Processing Technology</i> , 1994, 45, 87-92.  | 3.1 | 13        |
| 118 | Plarmsh3" a three-dimensional program for remeshing in metal forming. <i>Computers and Structures</i> , 1994, 53, 1153-1166.  | 2.4 | 13        |
| 119 | Steady-state finite-element analysis of cold forward extrusion. <i>Journal of Materials Processing Technology</i> , 1998, 73, 281-288.  | 3.1 | 13        |
| 120 | Deformation analysis of the round-to-square extrusion: a numerical and experimental investigation. <i>Finite Elements in Analysis and Design</i> , 2000, 35, 269-282.   | 1.7 | 13        |
| 121 | Electromagnetic Cam Driven Compression Testing Equipment. <i>Experimental Mechanics</i> , 2012, 52, 1211-1222.  | 1.1 | 13        |
| 122 | Three-dimensional simulations of resistance spot welding. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015, 229, 885-897.                          | 1.1 | 13        |
| 123 | A study of bi-metal coins by the finite element method. <i>Journal of Materials Processing Technology</i> , 1991, 26, 337-348.  | 3.1 | 12        |
| 124 | Coupled thermo-mechanical analysis of metal-forming processes through a combined finite element-boundary element approach. <i>International Journal for Numerical Methods in Engineering</i> , 1998, 42, 631-645. | 1.5 | 12        |
| 125 | Steady and non-steady state analysis of bulk forming processes by the reproducing kernel particle method. <i>Finite Elements in Analysis and Design</i> , 2005, 41, 599-614.                                      | 1.7 | 12        |
| 126 | Invert-Forming of Thin-Walled Tubes Using a Die. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006, 220, 35-41.                                    | 1.5 | 12        |



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|-----|--|-----|-----------|
| 127 | Nosing thin-walled tubes into axisymmetric seamless reservoirs using recyclable mandrels. <i>Journal of Cleaner Production</i> , 2010, 18, 1740-1749.  | 4.6 | 12        |
| 128 | On the formability of hole-flanging by incremental sheet forming. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2013, 227, 91-99.       | 0.7 | 12        |
| 129 | Fracture Loci in Sheet Metal Forming: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 1415-1425.   | 1.5 | 12        |
| 130 | Joining sheets perpendicular to one other by sheet-bulk metal forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 77-86.  | 1.5 | 12        |
| 131 | Predicting the onset of cracks in bulk metal forming by ductile damage criteria. <i>Procedia Engineering</i> , 2017, 207, 2048-2053.   | 1.2 | 12        |
| 132 | Continuous Strip Reduction Test Simulating Tribological Conditions in Ironing. <i>Procedia Engineering</i> , 2017, 207, 2286-2291.   | 1.2 | 12        |
| 133 | New methodology for the characterization of failure by fracture in bulk forming. <i>Journal of Strain Analysis for Engineering Design</i> , 2018, 53, 242-247.   | 1.0 | 12        |
| 134 | Joining sheets to tubes by annular sheet squeezing. <i>International Journal of Machine Tools and Manufacture</i> , 2019, 143, 16-22.  | 6.2 | 12        |
| 135 | On the Analysis of the Expansion and Reduction of Thin-Walled Tubes Using a Die. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006, 220, 823-835. | 1.5 | 11        |
| 136 | Incremental Sheet Forming. , 2014, , 7-26.   |     | 11        |
| 137 | Lightweight joining of polymer and polymer-metal sheets by sheet-bulk forming. <i>Journal of Cleaner Production</i> , 2017, 145, 98-104.   | 4.6 | 11        |
| 138 | Joining end-to-end tubing of dissimilar materials by forming. <i>International Journal of Pressure Vessels and Piping</i> , 2017, 149, 24-32.  | 1.2 | 11        |
| 139 | Formability limits by wrinkling in sheet metal forming. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018, 232, 681-692.               | 0.7 | 11        |
| 140 | Manufacturing hybrid busbars through joining by forming. <i>Journal of Materials Processing Technology</i> , 2020, 279, 116574.  | 3.1 | 11        |
| 141 | An algorithm for remeshing in metal forming. <i>Journal of Materials Processing Technology</i> , 1990, 24, 157-167.  | 3.1 | 10        |
| 142 | The avoidance of defects in radially extruded tubular parts by preforming. <i>Journal of Materials Processing Technology</i> , 1997, 69, 155-161.  | 3.1 | 10        |
| 143 | An investigation into the preforming of tubes. <i>International Journal of Mechanical Sciences</i> , 1997, 39, 507-521.  | 3.6 | 10        |
| 144 | Forming of thin-walled tubes into toroidal shells. <i>Journal of Materials Processing Technology</i> , 2010, 210, 689-695.   | 3.1 | 10        |

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|-----|--|-----|-----------|
| 145 | Revisiting the empirical relation for the maximum shearing force using plasticity and ductile fracture mechanics. <i>Journal of Materials Processing Technology</i> , 2013, 213, 1516-1522.  | 3.1 | 10        |
| 146 | All-hexahedral meshing and remeshing for multi-object manufacturing applications. <i>CAD Computer Aided Design</i> , 2013, 45, 911-922.  | 1.4 | 10        |
| 147 | On the relative performance of hole-flanging by incremental sheet forming and conventional press-working. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2014, 228, 312-322.         | 0.7 | 10        |
| 148 | The Role of Interfaces in the Evaluation of Friction by Ring Compression Testing. <i>Experimental Techniques</i> , 2015, 39, 47-56.  | 0.9 | 10        |
| 149 | Joining by forming of lightweight sandwich composite panels. <i>Procedia Manufacturing</i> , 2019, 29, 288-295.  | 1.9 | 10        |
| 150 | A digital image correlation based methodology to characterize formability in tube forming. <i>Journal of Strain Analysis for Engineering Design</i> , 2019, 54, 139-148.   | 1.0 | 10        |
| 151 | Formability limits in sheet-bulk forming. <i>International Journal of Machine Tools and Manufacture</i> , 2020, 149, 103509.   | 6.2 | 10        |
| 152 | On the prediction of wrinkling in flexible roll forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 2257-2275.   | 1.5 | 10        |
| 153 | Finite element flow formulation. , 2021, , 181-249.  |     | 10        |
| 154 | Revisiting the fracture forming limits of bulk forming under biaxial tension. <i>International Journal of Damage Mechanics</i> , 2022, 31, 882-900.  | 2.4 | 10        |
| 155 | A solution to plane strain extrusion by the upper bound approach and the weighted residuals method. <i>International Journal of Mechanical Sciences</i> , 1989, 31, 395-406.   | 3.6 | 9         |
| 156 | Extended Formability Limits for Tubular Components Through Combined Injection Forming/Upsettingâ€”A Finite Element Analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 1995, 209, 107-114. | 1.5 | 9         |
| 157 | Towards nett-shape manufacturing of tubular components. <i>International Journal of Machine Tools and Manufacture</i> , 1996, 36, 399-409.   | 6.2 | 9         |
| 158 | Experimental study of micro electrical discharge machining discharges. <i>Journal of Applied Physics</i> , 2013, 113, 233301.  | 1.1 | 9         |
| 159 | Interference-Fit Joining of Aluminium Tubes by Electromagnetic Forming. <i>Advanced Materials Research</i> , 0, 853, 488-493.  | 0.3 | 9         |
| 160 | Failure by fracture in sheetâ€”bulk metal forming. <i>Journal of Strain Analysis for Engineering Design</i> , 2016, 51, 387-394.   | 1.0 | 9         |
| 161 | Determining the fracture forming limits in sheet metal forming: A technical note. <i>Journal of Strain Analysis for Engineering Design</i> , 2017, 52, 467-471.  | 1.0 | 9         |
| 162 | Formability. , 2021, , 7-107.  |     | 9         |

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|-----|--|-----|-----------|
| 163 | Double-sided self-pierce riveting of polymer sheets. Journal of Advanced Joining Processes, 2021, 3, 100051.   | 1.5 | 9         |
| 164 | The PLAST3 system and its application to the simulation of an open die forging operation. Journal of Materials Processing Technology, 1994, 47, 111-125.                                 | 3.1 | 8         |
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