

# Zj Tao

## List of Publications by Year in descending order

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174  
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docs citations

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times ranked

2252  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances and Trends on Tube Bending Forming Technologies. Chinese Journal of Aeronautics, 2012, 25, 1-12.	2.8	209
2	Internal-state-variable based self-consistent constitutive modeling for hot working of two-phase titanium alloys coupling microstructure evolution. International Journal of Plasticity, 2011, 27, 1833-1852.	4.1	187
3	GdIII-Functionalized Fluorescent Quantum Dots as Multimodal Imaging Probes. Advanced Materials, 2006, 18, 2890-2894.	11.1	140
4	Nucleation and growth mechanism of $\beta$ -lamellae of Ti alloy TA15 cooling from an $\beta + \beta'$ phase field. Acta Materialia, 2013, 61, 2057-2064.	3.8	123
5	Temperature and composition dependence of the elastic constants of Ni3Al. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 2403-2408.	1.1	118
6	Effect of cooling rate on microstructure evolution during $\beta/\beta'$ heat treatment of TA15 titanium alloy. Materials Characterization, 2012, 70, 101-110.	1.9	101
7	Towards a steady forming condition for radial axial ring rolling. International Journal of Mechanical Sciences, 2011, 53, 286-299.	3.6	82
8	Springback characterization and behaviors of high-strength Ti-3Al-2.5V tube in cold rotary draw bending. Journal of Materials Processing Technology, 2012, 212, 1973-1987.	3.1	81
9	Recent developments in plastic forming technology of titanium alloys. Science China Technological Sciences, 2011, 54, 490-501.	2.0	80
10	Anisotropic and asymmetrical yielding and its distorted evolution: Modeling and applications. International Journal of Plasticity, 2016, 82, 127-158.	4.1	79
11	Friction role in bending behaviors of thin-walled tube in rotary-draw-bending under small bending radii. Journal of Materials Processing Technology, 2010, 210, 2273-2284.	3.1	72
12	Microstructure and mechanical properties of TA15 titanium alloy under multi-step local loading forming. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 523, 184-192.	2.6	71
13	Coupling effects of material properties and the bending angle on the springback angle of a titanium alloy tube during numerically controlled bending. Materials & Design, 2010, 31, 2001-2010.	5.1	71
14	Some advanced plastic processing technologies and their numerical simulation. Journal of Materials Processing Technology, 2004, 151, 63-69.	3.1	70
15	Anisotropic and asymmetrical yielding and its evolution in plastic deformation: Titanium tubular materials. International Journal of Plasticity, 2017, 90, 177-211.	4.1	67
16	Mechanism and kinetics of static globularization in TA15 titanium alloy with transformed structure. Journal of Alloys and Compounds, 2012, 533, 1-8.	2.8	64
17	Springback analysis of numerical control bending of thin-walled tube using numerical-analytic method. Journal of Materials Processing Technology, 2006, 177, 197-201.	3.1	62
18	An analytic model for tube bending springback considering different parameter variations of Ti-alloy tubes. Journal of Materials Processing Technology, 2016, 236, 123-137.	3.1	60

#	ARTICLE	IF	CITATIONS
19	Deformation behavior and microstructure evolution in multistage hot working of TA15 titanium alloy: on the role of recrystallization. <i>Journal of Materials Science</i> , 2011, 46, 6018-6028.	1.7	57
20	Prediction of constitutive behavior and microstructure evolution in hot deformation of TA15 titanium alloy. <i>Materials &amp; Design</i> , 2013, 51, 34-42.	5.1	57
21	Unified modeling of flow softening and globularization for hot working of two-phase titanium alloy with a lamellar colony microstructure. <i>Journal of Alloys and Compounds</i> , 2014, 600, 78-83.	2.8	57
22	A robust integration algorithm for implementing rate dependent crystal plasticity into explicit finite element method. <i>International Journal of Plasticity</i> , 2008, 24, 267-288.	4.1	52
23	Research on the springback of thin-walled tube NC bending based on the numerical simulation of the whole process. <i>Computational Materials Science</i> , 2008, 42, 537-549.	1.4	51
24	Springback prediction of thick-walled high-strength titanium tube bending. <i>Chinese Journal of Aeronautics</i> , 2013, 26, 1336-1345.	2.8	51
25	Dynamic globularization kinetics during hot working of TA15 titanium alloy with colony microstructure. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, 1963-1969.	1.7	50
26	Application of ductile fracture criteria in spin-forming and tube-bending processes. <i>Computational Materials Science</i> , 2009, 47, 353-365.	1.4	48
27	Multiple instability-constrained tube bending limits. <i>Journal of Materials Processing Technology</i> , 2014, 214, 445-455.	3.1	48
28	A method for establishing the plastic constitutive relationship of the weld bead and heat-affected zone of welded tubes based on the rule of mixtures and a microhardness test. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2864-2874.	2.6	47
29	Coupled thermo-mechanical FE simulation of the hot splitting spinning process of magnesium alloy AZ31. <i>Computational Materials Science</i> , 2010, 47, 857-866.	1.4	46
30	Deformation behavior of variable-thickness region of billet in rib-web component isothermal local loading process. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 63, 1-12.	1.5	46
31	Research on the influence of material properties on cold ring rolling processes by 3D-FE numerical simulation. <i>Journal of Materials Processing Technology</i> , 2006, 177, 634-638.	3.1	45
32	A control method of guide rolls in 3D-FE simulation of ring rolling. <i>Journal of Materials Processing Technology</i> , 2008, 205, 99-110.	3.1	45
33	Microstructure control techniques in primary hot working of titanium alloy bars: A review. <i>Chinese Journal of Aeronautics</i> , 2016, 29, 30-40.	2.8	45
34	Constitutive modeling of deformation in high temperature of a forging 6005A aluminum alloy. <i>Materials &amp; Design</i> , 2014, 54, 576-581.	5.1	44
35	Dependences of microstructures and properties on initial tempers of creep aged 7050 aluminum alloy. <i>Journal of Materials Processing Technology</i> , 2017, 239, 125-132.	3.1	42
36	Laser-Generated Nanocrystals in Perovskite: Universal Embedding of Ligand-Free and Sub-10 nm Nanocrystals in Solution-Processed Metal Halide Perovskite Films for Effectively Modulated Optoelectronic Performance. <i>Advanced Energy Materials</i> , 2019, 9, 1901341.	10.2	42

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37	Effect of clearance on wrinkling of thin-walled rectangular tube in rotary draw bending process. International Journal of Advanced Manufacturing Technology, 2010, 50, 85-92.	1.5	41
38	A unified model for coupling constitutive behavior and micro-defects evolution of aluminum alloys under high-strain-rate deformation. International Journal of Plasticity, 2016, 85, 203-229.	4.1	41
39	The interactive effects of wrinkling and other defects in thin-walled tube NC bending process. Journal of Materials Processing Technology, 2007, 187-188, 502-507.	3.1	40
40	Prediction and control of equiaxed $\hat{\epsilon}$ in near- $\hat{\epsilon}^2$ forging of TA15 Ti-alloy based on BP neural network: For purpose of tri-modal microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 591, 18-25.	2.6	40
41	Plastic wrinkling prediction in thin-walled part forming process: A review. Chinese Journal of Aeronautics, 2016, 29, 1-14.	2.8	40
42	Effect of frictions on cross section quality of thin-walled tube NC bending. Transactions of Nonferrous Metals Society of China, 2006, 16, 878-886.	1.7	36
43	Review on cellular automata simulations of microstructure evolution during metal forming process: Grain coarsening, recrystallization and phase transformation. Science China Technological Sciences, 2011, 54, 2107-2118.	2.0	36
44	A Study on Multi-defect Constrained Bendability of Thin-walled Tube NC Bending Under Different Clearance. Chinese Journal of Aeronautics, 2011, 24, 102-112.	2.8	35
45	Research on the effects of coordinate deformation on radial-axial ring rolling process by FE simulation based on in-process control. International Journal of Advanced Manufacturing Technology, 2014, 72, 57-68.	1.5	35
46	Through-process macro-micro finite element modeling of local loading forming of large-scale complex titanium alloy component for microstructure prediction. Journal of Materials Processing Technology, 2014, 214, 253-266.	3.1	34
47	Advances and trends in plastic forming technologies for welded tubes. Chinese Journal of Aeronautics, 2016, 29, 305-315.	2.8	34
48	A 3D rigid-viscoplastic FEM simulation of the isothermal precision forging of a blade with a damper platform. Journal of Materials Processing Technology, 2002, 122, 45-50.	3.1	32
49	Investigation of deformation degree and initial forming temperature dependences of microstructure in hot ring rolling of TA15 titanium alloy by multi-scale simulations. Computational Materials Science, 2012, 65, 221-229.	1.4	32
50	Quasi-static tensile behavior and constitutive modeling of large diameter thin-walled commercial pure titanium tube. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 569, 96-105.	2.6	31
51	Microstructural features of TA15 titanium alloy under different temperature routes in isothermal local loading forming. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 540, 245-252.	2.6	29
52	Thermo-mechanical coupled 3D-FE modeling of heat rotary draw bending for large-diameter thin-walled CP-Ti tube. International Journal of Advanced Manufacturing Technology, 2014, 72, 1187-1203.	1.5	29
53	A coordination model of the in-plane bending of strip metal under unequal compression. Journal of Materials Processing Technology, 2001, 114, 103-108.	3.1	28
54	Tri-modal microstructure evolution of TA15 Ti-alloy under conventional forging combined with given subsequent heat treatment. Journal of Materials Processing Technology, 2016, 229, 72-81.	3.1	28

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55	Establishment of a 3D FE model for the bending of a titanium alloy tube. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 1115-1124.	3.6	27
56	Bending behaviors of large diameter thin-walled CP-Ti tube in rotary draw bending. <i>Progress in Natural Science: Materials International</i> , 2011, 21, 401-412.	1.8	27
57	Quantitative analysis of the microstructure of transitional region under multi-heat isothermal local loading forming of TA15 titanium alloy. <i>Materials &amp; Design</i> , 2011, 32, 2012-2020.	5.1	27
58	Friction factor evaluation by FEM and experiment for TA15 titanium alloy in isothermal forming process. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 60, 527-536.	1.5	27
59	Predicting the effects of microstructural features on strain localization of a two-phase titanium alloy. <i>Materials and Design</i> , 2015, 87, 171-180.	3.3	27
60	FEM analysis of mechanism of free deformation under dieless constraint in axial compressive forming process of tube. <i>Journal of Materials Processing Technology</i> , 2001, 115, 367-372.	3.1	26
61	Invariant critical stress for shear banding in a bulk metallic glass. <i>Applied Physics Letters</i> , 2008, 93, 231912.	1.5	26
62	Experimental study of macro-micro dynamic behaviors of 5A0X aluminum alloys in high velocity deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 598, 197-206.	2.6	26
63	Microstructure evolution of the transitional region in isothermal local loading of TA15 titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2694-2703.	2.6	25
64	Effects of Parameters on Inhomogeneous Deformation and Damage in Isothermal Local Loading Forming of Ti-Alloy Component. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 313-323.	1.2	25
65	Experimental study on the effect of dies on wall thickness distribution in NC bending of thin-walled rectangular 3A21 aluminum alloy tube. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 68, 1867-1874.	1.5	25
66	Springback of thin-walled tube NC precision bending and its numerical simulation. <i>Transactions of Nonferrous Metals Society of China</i> , 2006, 16, s631-s638.	1.7	24
67	Poly(ethylene oxide)-Based Zn(II) Halide Electrolytes. <i>Journal of the Electrochemical Society</i> , 1992, 139, 1646-1654.	1.3	23
68	Variation of Young's modulus of high-strength TA18 tubes and its effects on forming quality of tubes by numerical control bending. <i>Materials &amp; Design</i> , 2014, 53, 809-815.	5.1	23
69	Dependence of creep age formability on initial temper of an Al-Zn-Mg-Cu alloy. <i>Chinese Journal of Aeronautics</i> , 2016, 29, 1445-1454.	2.8	23
70	Tri-modal microstructure and performance of TA15 Ti-alloy under near- $\hat{\epsilon}^2$ forging and given subsequent solution and aging treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 654, 113-123.	2.6	23
71	Metal flow characteristics of local loading forming process for rib-web component with unequal-thickness billet. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 68, 1949-1965.	1.5	22
72	Contributions of microstructural features to the integrated hardness of TA15 titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 358-365.	2.6	22

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73	Role of processing parameters in the development of tri-modal microstructure during isothermal local loading forming of TA15 titanium alloy. <i>Journal of Materials Processing Technology</i> , 2017, 239, 160-171.	3.1	22
74	Forming limits under multi-index constraints in NC bending of aluminum alloy thin-walled tubes with large diameters. <i>Science China Technological Sciences</i> , 2010, 53, 326-342.	2.0	21
75	Simulated and experimental investigation on discontinuous dynamic recrystallization of a near- $\beta$ TA15 titanium alloy during isothermal hot compression in $\beta^2$ single-phase field. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 1819-1829.	1.7	21
76	A 3D rigid-viscoplastic FEM simulation of compressor blade isothermal forging. <i>Journal of Materials Processing Technology</i> , 2001, 117, 56-61.	3.1	19
77	Physical modeling of the forging of a blade with a damper platform using plasticine. <i>Journal of Materials Processing Technology</i> , 2001, 117, 62-65.	3.1	19
78	Research on interactive influences of parameters on T-shaped cold ring rolling by 3d-FE numerical simulation. <i>Journal of Mechanical Science and Technology</i> , 2007, 21, 1541-1547.	0.7	19
79	Microstructure evolution in the local loading forming of TA15 titanium alloy under non-isothermal condition. <i>Journal of Materials Processing Technology</i> , 2012, 212, 2520-2528.	3.1	19
80	A hybrid method for accurate prediction of multiple instability modes in in-plane roll-bending of strip. <i>Journal of Materials Processing Technology</i> , 2014, 214, 1173-1189.	3.1	19
81	A study on a 3D FE simulation method of the NC bending process of thin-walled tube. <i>Journal of Materials Processing Technology</i> , 2002, 129, 273-276.	3.1	18
82	Backward tracing simulation of precision forging process for blade based on 3D FEM. <i>Transactions of Nonferrous Metals Society of China</i> , 2006, 16, s639-s644.	1.7	18
83	Preform design for large-scale bulkhead of TA15 titanium alloy based on local loading features. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 2551-2562.	1.5	18
84	Quantitative analysis of the material flow in transitional region during isothermal local loading forming of Ti-alloy rib-web component. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 75, 1339-1347.	1.5	18
85	Constitutive modeling of compression behavior of TC4 tube based on modified Arrhenius and artificial neural network models. <i>Rare Metals</i> , 2016, 35, 162-171.	3.6	18
86	Establishment of a thermal damage model for Ti-6Al-2Zr-1Mo-1V titanium alloy and its application in the tube rolling-spinning process. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 1345-1357.	1.5	18
87	Poly(ethylene oxide) electrolytes containing mixed salts. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993, 31, 157-163.	2.4	17
88	Dependence of microstructure morphology on processing in subtransus isothermal local loading forming of TA15 titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 546, 46-52.	2.6	17
89	Numerical study of the friction effects on the metal flow under local loading way. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 68, 1339-1350.	1.5	17
90	Primary Alpha Grain Coarsening Behavior of Ti-6Al-2Zr-1Mo-1V Alloy in the Alpha+Beta Two-Phase Field. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 2557-2566.	1.2	17

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91	Global sensitivity analysis and coupling effects of forming parameters on wall thinning and cross-sectional distortion of rotary draw bending of thin-walled rectangular tube with small bending radius. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 74, 581-589.	1.5	17
92	Deformation behaviors of double-ridged rectangular H96 tube in rotary draw bending under different mandrel types. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 1569-1580.	1.5	17
93	Room Temperature Exchange Bias in Structure-Modulated Single-Phase Multiferroic Materials. <i>Chemistry of Materials</i> , 2018, 30, 6156-6163.	3.2	17
94	Geometry-dependent springback behaviors of thin-walled tube upon cold bending. <i>Science China Technological Sciences</i> , 2012, 55, 3469-3482.	2.0	16
95	Tribological behaviors between commercial pure titanium sheet and tools in warm forming. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 2924-2931.	1.7	16
96	Variation of contractile strain ratio of TiAl <sub>2</sub> V tubes and its effects in tubes numerical control bending process. <i>Journal of Materials Processing Technology</i> , 2015, 217, 165-183.	3.1	16
97	Springback Prediction Model Considering the Variable Young's Modulus for the Bending Rectangular 3A21 Tube. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 9-16.	1.2	15
98	An analytical model for the collapsing deformation of thin-walled rectangular tube in rotary draw bending. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 69, 627-636.	1.5	15
99	Warm bending mechanism of extrados and intrados of large diameter thin-walled CP-Ti tubes. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 3257-3264.	1.7	15
100	Forming mechanism and characteristics of a process for equal-thickness in-plane ring roll-bending of a metal strip by twin conical rolls. <i>Journal of Materials Processing Technology</i> , 2016, 227, 288-307.	3.1	15
101	Influence of dynamic boundary conditions on preform design for deformation uniformity in backward simulation. <i>Journal of Materials Processing Technology</i> , 2008, 197, 255-260.	3.1	14
102	Research on the expanding deformation of ring radius in cold profiled ring rolling process. <i>Science China Technological Sciences</i> , 2010, 53, 813-821.	2.0	14
103	Constraining effects of weld and heat-affected zone on deformation behaviors of welded tubes in numerical control bending process. <i>Journal of Materials Processing Technology</i> , 2012, 212, 1106-1115.	3.1	14
104	Experimental and FE simulation study on cross-section distortion of rectangular tube under multi-die constraints in rotary draw bending process. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 633-641.	1.1	14
105	Unequal thickness billet design for large-scale titanium alloy rib-web components under isothermal closed-die forging. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 729-744.	1.5	14
106	Forming defects control in transitional region during isothermal local loading of Ti-alloy rib-web component. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 76, 857-868.	1.5	14
107	Some advances in local loading precision forming of large scale integral complex components of titanium alloys. <i>Materials Research Innovations</i> , 2011, 15, s493-s496.	1.0	13
108	Numerically controlled bending performance of medium strength TA18 titanium alloy tubes under different die sets. <i>Science China Technological Sciences</i> , 2011, 54, 841-852.	2.0	13

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109	Optimization of processing parameters for double-ridged rectangular tube rotary draw bending based on grey relational analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 2003-2011.	1.5	13
110	Effect of mandrel-cores on springback and sectional deformation of rectangular H96 tube NC bending. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 351-360.	1.5	13
111	BP artificial neural network modeling for accurate radius prediction and application in incremental in-plane bending. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 80, 971-984.	1.5	13
112	Quasi-static tensile behavior of large-diameter thin-walled Ti-6Al-4V tubes at elevated temperature. <i>Chinese Journal of Aeronautics</i> , 2016, 29, 542-553.	2.8	13
113	A New FE Modeling Method for Isothermal Local Loading Process of Large-scale Complex Titanium Alloy Components Based on DEFORM-3D. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	12
114	Influences of fillet radius and draft angle on local loading process of titanium alloy T-shaped components. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, 2693-2704.	1.7	12
115	The mechanism of flow softening in subtransus hot working of two-phase titanium alloy with equiaxed structure. <i>Science Bulletin</i> , 2014, 59, 2859-2867.	1.7	12
116	Study on exit temperature evolution during extrusion for large-scale thick-walled Inconel 625 pipe by FE simulation. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 76, 1421-1435.	1.5	12
117	Effect of workpiece size on microstructure evolution of different regions for TA15 Ti-alloy isothermal near- $\beta$ forging by local loading. <i>Journal of Materials Processing Technology</i> , 2015, 222, 234-243.	3.1	12
118	Dependence of Microstructure on Solution and Aging Treatment for Near- $\beta$ Forged TA15 Ti-Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4549-4560.	1.2	12
119	Effects of material properties on power spinning process of parts with transverse inner rib. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, 1476-1481.	1.7	11
120	Static coarsening of titanium alloys in single field by cellular automaton model considering solute drag and anisotropic mobility of grain boundaries. <i>Science Bulletin</i> , 2012, 57, 1473-1482.	1.7	11
121	Towards an integrated robust and loop tooling design for tube bending. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 65, 1303-1318.	1.5	11
122	Knowledge-based substep deterministic optimization of large diameter thin-walled Al-alloy tube bending. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 68, 1989-2004.	1.5	11
123	Influence of die parameters on the deformation inhomogeneity of transitional region during local loading forming of Ti-alloy rib-web component. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 2109-2119.	1.5	11
124	Springback nonlinearity of high-strength titanium alloy tube upon mandrel bending. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 429-438.	1.1	10
125	Instable modes of in-plane bending of strip metal under unequal compressing. <i>Journal of Materials Processing Technology</i> , 2000, 99, 197-201.	3.1	9
126	3D-FE Modelling and Simulation of Multi-way Loading Process for Multiported Valves. <i>Steel Research International</i> , 2010, 81, 210-215.	1.0	9



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127	An accurate 3D-FE based radius prediction model for in-plane roll-bending of strip considering spread effects. Computational Materials Science, 2010, 50, 666-677.	1.4	9
128	Effect of weld characteristics on the formability of welded tubes in NC bending process. International Journal of Advanced Manufacturing Technology, 2013, 69, 181-195.	1.5	9
129	Relations between the stress components and cross-sectional distortion of thin-walled rectangular waveguide tube in rotary draw bending process. International Journal of Advanced Manufacturing Technology, 2013, 68, 651-662.	1.5	9
130	Prediction of forming limit based on cross-sectional distortion for rotary draw bending of H96 brass double-ridged rectangular tube. International Journal of Advanced Manufacturing Technology, 2014, 71, 1445-1454.	1.5	9
131	Research on cross-sectional deformation of double-ridged rectangular tube during H-typed rotary draw bending process. International Journal of Advanced Manufacturing Technology, 2014, 73, 1789-1798.	1.5	8
132	Influence of different mandrels on cross-sectional deformation of the double-ridge rectangular tube in rotary draw bending process. International Journal of Advanced Manufacturing Technology, 2017, 91, 1243-1254.	1.5	8
133	Tooling design related spatial deformation behaviors and crystallographic texture evolution of high-strength Ti-3Al-2.5V tube in cold pilgering. International Journal of Advanced Manufacturing Technology, 2019, 104, 2851-2862.	1.5	8
134	A new model for precision control of the radius in in-plane roll-bending of strip considering rolls and stand deflections. Journal of Materials Processing Technology, 2011, 211, 2072-2084.	3.1	7
135	Modeling of static coarsening of two-phase titanium alloy in the $\beta+\alpha'$ two-phase region at different temperature by a cellular automata method. Science Bulletin, 2013, 58, 3023-3032.	1.7	7
136	FE analysis on Deformation and Temperature Nonuniformity in Forming of AISI-5140 Triple Valve by Multi-Way Loading. Journal of Materials Engineering and Performance, 2013, 22, 358-365.	1.2	7
137	Modelling of Wrinkling in NC Bending of Thin-walled Tubes with Large Diameters under Multi-die Constraints Using Hybrid Method. Procedia Engineering, 2014, 81, 2171-2176.	1.2	7
138	Forming limit of local loading forming of Ti-alloy large-scale rib-web components considering defects in the transitional region. International Journal of Advanced Manufacturing Technology, 2015, 80, 1015-1026.	1.5	7
139	Superlattice-like structure and enhanced ferroelectric properties of intergrowth Aurivillius oxides. RSC Advances, 2018, 8, 16937-16946.	1.7	7
140	Design and optimisation of mandrel parameters for thin walled aluminium alloy tube NC bending. Materials Research Innovations, 2011, 15, s365-s369.	1.0	6
141	A new method for separating complex touching equiaxed and lamellar alpha phases in microstructure of titanium alloy. Transactions of Nonferrous Metals Society of China, 2013, 23, 2265-2269.	1.7	6
142	Absence of structural transition in $M_{0.5}$ . $T_j$	1.1	6
143	Determination of process parameters for the NC bending of a TA18 tube. International Journal of Advanced Manufacturing Technology, 2013, 68, 663-672.	1.5	6
144	DRX rules during extrusion process of large-scale thick-walled Inconel 625 pipe by FE method. Transactions of Nonferrous Metals Society of China, 2015, 25, 3037-3047.	1.7	6

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145	Prediction of tri-modal microstructure under complex thermomechanical processing history in isothermal local loading forming of titanium alloy. Transactions of Nonferrous Metals Society of China, 2017, 27, 2423-2433.	1.7	6
146	Dynamic recrystallization rules in needle piercing extrusion for AISI304 stainless steel pipe. Transactions of Nonferrous Metals Society of China, 2012, 22, s519-s527.	1.7	5
147	Optimal design of process parameters of rotary-draw bending process for thin-walled rectangular tube of aluminum alloy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 1442-1448.	1.5	5
148	Fast analysis on metal flow in isothermal local loading process for multi-rib component using slab method. International Journal of Advanced Manufacturing Technology, 2015, 79, 1805-1820.	1.5	5
149	A constitutive model for anisotropic tubes incorporating the variation of contractile strain ratio with deformation. International Journal of Mechanical Sciences, 2015, 90, 33-43.	3.6	5
150	Research on the sensitivity of material parameters to cross-sectional deformation of thin-walled rectangular tube in rotary draw bending process. Journal of Materials Research, 2016, 31, 1784-1792.	1.2	5
151	Hot deformation characterization and processing map of Cu-10%Fe-1.5%Ag in situ composite. Rare Metals, 2017, 36, 912-918.	3.6	5
152	Improving the deformation homogeneity of the transitional region in local loading forming of Ti-alloy rib-web component by optimizing unequal-thickness billet. International Journal of Advanced Manufacturing Technology, 2017, 92, 4017-4029.	1.5	5
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