Jianguo Lin

List of Publications by Citations

179 papers	2,810 citations	28 h-index	45 g-index
185 ext. papers	3,520 ext. citations	3.8 avg, IF	5.78 L-index

#	Paper	IF	Citations
179	Investigation of deformation and failure features in hot stamping of AA6082: Experimentation and modelling. *International Journal of Machine Tools and Manufacture*, **2012**, 53, 27-38	9.4	193
178	A review of the development of creep age forming: Experimentation, modelling and applications. *International Journal of Machine Tools and Manufacture*, **2011**, 51, 1-17	9.4	160
177	Experimental studies and constitutive modelling of the hardening of aluminium alloy 7055 under creep age forming conditions. *International Journal of Mechanical Sciences*, **2011**, 53, 595-605	5.5	113
176	Numerical study of the solution heat treatment, forming, and in-die quenching (HFQ) process on AA5754. *International Journal of Machine Tools and Manufacture*, **2014**, 87, 39-48	9.4	111
175	Formability and failure mechanisms of AA2024 under hot forming conditions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 2648-2658	5.3	105
174	A review on forming techniques for manufacturing lightweight complex□shaped aluminium panel components. *International Journal of Lightweight Materials and Manufacture*, **2018**, 1, 55-80	2.2	79
173	A unified constitutive model for asymmetric tension and compression creep-ageing behaviour of naturally aged Al-Cu-Li alloy. *International Journal of Plasticity*, **2017**, 89, 130-149	7.6	73
172	Transmission electron microscopy investigation of separated nucleation and in-situ nucleation in AA7050 aluminium alloy. *Acta Materialia*, **2018**, 149, 377-387	8.4	71
171	A controlled Poisson Voronoi tessellation for grain and cohesive boundary generation applied to crystal plasticity analysis. *Computational Materials Science*, **2012**, 64, 84-89	3.2	57
170	An atomic scale structural investigation of nanometre-sized □precipitates in the 7050 aluminium alloy. *Acta Materialia*, **2019**, 174, 351-368	8.4	55
169	Creep-age forming AA2219 plates with different stiffener designs and pre-form age conditions: Experimental and finite element studies. *Journal of Materials Processing Technology*, **2015**, 219, 155-163	5.3	45
168	A novel constitutive model for multi-step stress relaxation ageing of a pre-strained 7xxx series alloy. *International Journal of Plasticity*, **2018**, 106, 31-47	7.6	44
167	Optimization of an aluminum alloy anti-collision side beam hot stamping process using a multi-objective genetic algorithm. *Archives of Civil and Mechanical Engineering*, **2013**, 13, 401-411	3.4	42
166	Formability evaluation for sheet metals under hot stamping conditions by a novel biaxial testing system and a new materials model. *International Journal of Mechanical Sciences*, **2017**, 120, 149-158	5.5	42
165	A new application of unified constitutive equations for cross wedge rolling of a high-speed railway axle steel. *Journal of Materials Processing Technology*, **2015**, 223, 274-283	5.3	39
164	Feasibility studies of a novel extrusion process for curved profiles: Experimentation and modelling. *International Journal of Machine Tools and Manufacture*, **2018**, 126, 27-43	9.4	38
163	Microstructure evolution and constitutive equations for the high-temperature deformation of 5Cr21Mn9Ni4N heat-resistant steel. *Journal of Alloys and Compounds*, **2017**, 693, 674-687	5.7	37

162	A review on modelling techniques for formability prediction of sheet metal forming. *International Journal of Lightweight Materials and Manufacture*, **2018**, 1, 115-125	2.2	35
161	Life cycle assessment of the potential environmental benefits of a novel hot forming process in automotive manufacturing. *Journal of Cleaner Production*, **2014**, 83, 80-86	10.3	34
160	Springback analysis of AA5754 after hot stamping: experiments and FE modelling. *International Journal of Advanced Manufacturing Technology*, **2017**, 89, 1339-1352	3.2	34
159	An experimental investigation on the deformation and post-formed strength of heat-treatable aluminium alloys using different elevated temperature forming processes. *Journal of Materials Processing Technology*, **2019**, 268, 87-96	5.3	33
158	An investigation into the forging of Bi-metal gears. *Journal of Materials Processing Technology*, **2014** , 214, 2248-2260	5.3	31
157	Manufacturing a curved profile with fine grains and high strength by differential velocity sideways extrusion. *International Journal of Machine Tools and Manufacture*, **2019**, 140, 77-88	9.4	30
156	Formability and microstructure evolution mechanisms of Ti6Al4V alloy during a novel hot stamping process. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 719, 72-81	5.3	29
155	Prediction of microstructure and ductile damage of a high-speed railway axle steel during cross wedge rolling. *Journal of Materials Processing Technology*, **2017**, 239, 359-369	5.3	29
154	Development of a VGRAIN system for CPFE analysis in micro-forming applications. *International Journal of Advanced Manufacturing Technology*, **2010**, 47, 981-991	3.2	29
153	Experimental and numerical investigation of localized thinning in hydroforming of micro-tubes. *European Journal of Mechanics, A/Solids*, **2012**, 31, 67-76	3.7	28
152	Modelling of localised thinning features in the hydroforming of micro-tubes using the crystal-plasticity FE method. *International Journal of Advanced Manufacturing Technology*, **2010**, 47, 859-865	3.2	28
151	Experimental investigation of boron steel at hot stamping conditions. *Journal of Materials Processing Technology*, **2016**, 228, 2-10	5.3	27
150	Experimental investigations on hot forming of AA6082 using advanced plasma nitrocarburised and CAPVD WC: C coated tools. *Journal of Materials Processing Technology*, **2017**, 240, 190-199	5.3	27
149	A study of direct forging process for powder superalloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 621, 68-75	5.3	26
148	Experimental investigation of forming limit curves and deformation features in warm forming of an aluminium alloy. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2018**, 232, 465-474	2.4	26
147	Experimental investigation of multi-step stress-relaxation-ageing of 7050 aluminium alloy for different pre-strained conditions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 710, 111-120	5.3	26
146	Forming characteristic of sheet hydroforming under the influence of through-thickness normal stress. *Journal of Materials Processing Technology*, **2012**, 212, 1875-1884	5.3	26
145	Modelling mechanical property recovery of a linepipe steel in annealing process. *International Journal of Plasticity*, **2009**, 25, 1049-1065	7.6	26

144	Extended application of a unified creep-ageing constitutive model to multistep heat treatment of aluminium alloys. *Materials and Design*, **2017**, 122, 422-432	8.1	25
143	A buckling model for flange wrinkling in hot deep drawing aluminium alloys with macro-textured tool surfaces. *International Journal of Machine Tools and Manufacture*, **2017**, 114, 21-34	9.4	25
142	The effect of hot form quench (HFQ) conditions on precipitation and mechanical properties of aluminium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 761, 138017	5.3	24
141	Analysis and modelling of a novel process for extruding curved metal alloy profiles. *International Journal of Mechanical Sciences*, **2018**, 138-139, 524-536	5.5	24
140	Influences of residual stresses and initial distortion on springback prediction of 7B04-T651 aluminium plates in creep-age forming. *International Journal of Mechanical Sciences*, **2015**, 103, 115-126	5.5	23
139	Quantification of thermal residual stresses relaxation in AA7xxx aluminium alloy through cold rolling. *Journal of Materials Processing Technology*, **2019**, 264, 454-468	5.3	22
138	FE simulation of asymmetric creep-ageing behaviour of AA2050 and its application to creep age forming. *International Journal of Mechanical Sciences*, **2018**, 140, 228-240	5.5	21
137	Microstructure evolution in metal forming processes **2012**,		21
136	Challenges in additive manufacturing of high-strength aluminium alloys and current developments in hybrid additive manufacturing. *International Journal of Lightweight Materials and Manufacture*, **2021**, 4, 246-261	2.2	20
135	Constitutive modeling for the simulation of the superplastic forming of TA15 titanium alloy. *International Journal of Mechanical Sciences*, **2019**, 164, 105178	5.5	19
134	Experimental investigation and modelling of yield strength and work hardening behaviour of artificially aged Al-Cu-Li alloy. *Materials and Design*, **2019**, 183, 108121	8.1	18
133	Investigation of the effects of thermal gradients present in Gleeble high-temperature tensile tests on the strain state for free cutting steel. *Journal of Strain Analysis for Engineering Design*, **2014**, 49, 521-532	1.3	18
132	Feasibility study on direct flame impingement heating applied for the solution heat treatment, forming and cold die quenching technique. *Journal of Manufacturing Processes*, **2018**, 36, 398-404	5	18
131	The study of flow behavior and governing mechanisms of a titanium alloy during superplastic forming. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 788, 139482	5.3	17
130	An integrated method for net-shape manufacturing components combining 3D additive manufacturing and compressive forming processes. *Procedia Engineering*, **2017**, 207, 1182-1187		17
129	Effect of machining-induced residual stress on springback of creep age formed AA2050 plates with asymmetric creep-ageing behaviour. *International Journal of Machine Tools and Manufacture*, **2018**, 132, 113-122	9.4	17
128	Experimental investigations of stress-relaxation ageing behaviour of AA6082. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 750, 108-116	5.3	16
127	A study on the buckling behaviour of aluminium alloy sheet in deep drawing with macro-textured blankholder. *International Journal of Mechanical Sciences*, **2016**, 110, 138-150	5.5	16

126	A novel application of sideways extrusion to produce curved aluminium profiles: Feasibility study. *Procedia Engineering*, **2017**, 207, 2304-2309		16
125	A study on central crack formation in cross wedge rolling. *Journal of Materials Processing Technology*, **2020**, 279, 116549	5.3	16
124	A review of force reduction methods in precision forging axisymmetric shapes. *International Journal of Advanced Manufacturing Technology*, **2018**, 97, 2809-2833	3.2	16
123	A study of interfacial heat transfer and its effect on quenching when hot stamping AA7075. *Archives of Civil and Mechanical Engineering*, **2018**, 18, 723-730	3.4	15
122	Predicting Effect of Temperature, Strain Rate and Strain Path Changes on Forming Limit of Lightweight Sheet Metal Alloys. *Procedia Engineering*, **2014**, 81, 736-741		15
121	An investigation of creep age forming of AA7B04 stiffened plates: Experiment and FE modelling. *Journal of Manufacturing Processes*, **2019**, 37, 232-241	5	15
120	An experimental investigation of the drawability of AA6082 sheet under different elevated temperature forming processes. *Journal of Materials Processing Technology*, **2019**, 273, 116225	5.3	14
119	Materials Modelling for Selective Heating and Press Hardening of Boron Steel Panels with Graded Microstructures. *Procedia Engineering*, **2014**, 81, 1675-1681		14
118	An investigation of springback scatter in forming ultra-thin metal-sheet channel parts using crystal plasticity FE analysis. *International Journal of Advanced Manufacturing Technology*, **2010**, 47, 845-852	3.2	13
117	Fundamentals of Materials Modelling for Metals Processing Technologies **2015**,		13
116	Study of the Effects of Hot Forging on the Additively Manufactured Stainless Steel Preforms. *Journal of Manufacturing Processes*, **2020**, 57, 668-676	5	13
115	A comparative study on deformation mechanisms, microstructures and mechanical properties of wide thin-ribbed sections formed by sideways and forward extrusion. *International Journal of Machine Tools and Manufacture*, **2021**, 168, 103771	9.4	13
114	A method for designing lightweight and flexible creep-age forming tools using mechanical splines and sparse controlling points. *International Journal of Advanced Manufacturing Technology*, **2015**, 80, 361-372	3.2	12
113	Effects of die land length and geometry on curvature and effective strain of profiles produced by a novel sideways extrusion process. *Journal of Materials Processing Technology*, **2020**, 282, 116682	5.3	12
112	Effect of forming parameters on electron beam Surfi-Sculpt protrusion for Ti6Al4V. *Materials & Design*, **2015**, 76, 202-206		11
111	An experimental and numerical investigation of the effect of macro-textured tool surfaces in hot stamping. *International Journal of Material Forming*, **2017**, 10, 241-254	2	10
110	Effect of pin arrangement on formed shape with sparse multi-point flexible tool for creep age forming. *International Journal of Machine Tools and Manufacture*, **2019**, 140, 48-61	9.4	10
109	Size-dependent mechanical properties in AA6082 tailor welded specimens. *Journal of Materials Processing Technology*, **2015**, 224, 169-180	5.3	10

108	Strain measurement and error analysis in thermo-mechanical tensile tests of sheet metals for hot stamping applications. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2018**, 232, 1994-2008	1.3	10
107	Experimental Investigations of the In-Die Quenching Efficiency and Die Surface Temperature of Hot Stamping Aluminium Alloys. *Metals*, **2018**, 8, 231	2.3	10
106	Effect of mandrel diameter on non-circularity of hollow shafts in cross wedge rolling. *Procedia Engineering*, **2017**, 207, 2376-2381		10
105	Investigation on fast and energy-efficient heat treatments of AA6082 in HFQ processes for automotive applications. *MATEC Web of Conferences*, **2015**, 21, 05015	0.3	10
104	In situ microtensile testing and X-ray microtomography-based finite element modelling of open-cell metal foam struts and sandwich panels. *Journal of Strain Analysis for Engineering Design*, **2014**, 49, 592-606	1.3	10
103	An accelerated springback compensation method for creep age forming. *International Journal of Advanced Manufacturing Technology*, **2019**, 102, 121-134	3.2	10
102	Morphological evolution of GP zones and nanometer-sized precipitates in the AA2050 aluminium alloy. *International Journal of Lightweight Materials and Manufacture*, **2018**, 1, 142-156	2.2	9
101	A New Test Design for Assessing Formability of Materials in Hot Stamping. *Procedia Engineering*, **2014**, 81, 1689-1694		9
100	Stress and temperature dependence of stress relaxation ageing behaviour of an Al-Zn-Mg alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2020**, 773, 138859	5.3	9
99	Rheological behavior and dynamic softening mechanism of AA7075 sheet under isothermal tensile deformation. *Journal of Materials Research and Technology*, **2020**, 9, 9784-9797	5.5	9
98	A Review of Microstructural Evolution and Modelling of Aluminium Alloys under Hot Forming Conditions. *Metals*, **2020**, 10, 1516	2.3	9
97	Deep Learning in Sheet Metal Bending With a Novel Theory-Guided Deep Neural Network. *IEEE/CAA Journal of Automatica Sinica*, **2021**, 8, 565-581	7	9
96	An analysis of the tooth stress distribution of forged bi-metallic gears. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2018**, 232, 124-139	1.3	8
95	Damage Investigation of Boron Steel at Hot Stamping Conditions. *Procedia Engineering*, **2014**, 81, 1744-1749		8
94	Advances and Trends in Forming Curved Extrusion Profiles. *Materials*, **2021**, 14,	3.5	8
93	Hot stamping of AA6082 tailor welded blanks: experiment and FE simulation. *Manufacturing Review* , **2016**, 3, 8	1.4	8
92	Direct powder forging of PM nickel-based superalloy: densification and recrystallisation. *International Journal of Advanced Manufacturing Technology*, **2017**, 88, 2661-2670	3.2	7
91	Upper bound analysis of differential velocity sideways extrusion process for curved profiles using a fan-shaped flow line model. *International Journal of Lightweight Materials and Manufacture*, **2018**, 1, 21-32	2.2	7

90	An integrated model to predict residual stress reduction by multiple cold forging operations in extra-large AA7050 T-section panels. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2018**, 232, 1319-1330	2.4	7
89	An investigation of involute and lead deflection in hot precision forging of gears. *International Journal of Advanced Manufacturing Technology*, **2017**, 88, 3017-3030	3.2	6
88	Experimental investigation of novel fast ageing treatments for AA6082 in supersaturated solid solution state. *Journal of Alloys and Compounds*, **2019**, 810, 151934	5.7	6
87	A novel manufacturing process and validated predictive model for high-strength and low-residual stresses in extra-large 7xxx panels. *Materials and Design*, **2019**, 173, 107767	8.1	6
86	Density-based constitutive modelling of P/M FGH96 for powder forging. *International Journal of Mechanical Sciences*, **2018**, 138-139, 110-121	5.5	6
85	An analytical solution for elastic buckling analysis of stiffened panel subjected to pure bending. *International Journal of Mechanical Sciences*, **2019**, 161-162, 105024	5.5	6
84	Friction Stir Welding between 6082 and 7075 Aluminum Alloys Thermal Treated for Automotive Applications. *Materials Performance and Characterization*, **2019**, 8, 20180179	0.5	6
83	Using novel strain aging kinetics models to determine the effect of solution temperature on critical strain of Al-Zn-Mg-Cu alloy. *Journal of Alloys and Compounds*, **2020**, 838, 155647	5.7	6
82	Cold rolling influence on residual stresses evolution in heat-treated AA7xxx T-section panels. *Materials and Manufacturing Processes*, **2019**, 34, 431-446	4.1	6
81	A novel spatio-temporal method for determining necking and fracture strains of sheet metals. *International Journal of Mechanical Sciences*, **2021**, 189, 105977	5.5	6
80	Investigation of austenitising behaviour of medium-Mn steel in the hot-stamping heating process. *Journal of Materials Processing Technology*, **2021**, 297, 117269	5.3	6
79	Reinforcement learning in free-form stamping of sheet-metals. *Procedia Manufacturing*, **2020**, 50, 444-449	1.5	5
78	An analytical investigation on the wrinkling of aluminium alloys during stamping using macro-scale structural tooling surfaces. *International Journal of Advanced Manufacturing Technology*, **2017**, 92, 481-495	3.2	5
77	The optimisation of cruciform specimen for the formability evaluation of AA6082 under hot stamping conditions. *Procedia Engineering*, **2017**, 207, 735-740		5
76	The process parameters effect of ovality in cross wedge rolling for hollow valve without mandril. *MATEC Web of Conferences*, **2016**, 80, 13003	0.3	5
75	Unified constitutive modelling for two-phase lamellar titanium alloys at hot forming conditions. *Manufacturing Review*, **2016**, 3, 14	1.4	5
74	Effect of cruciform specimen design on strain paths and fracture location in equi-biaxial tension. *Journal of Materials Processing Technology*, **2021**, 289, 116932	5.3	5
73	Constitutive modelling and its application to stress-relaxation age forming of AA6082 with elastic and plastic loadings. *Journal of Materials Processing Technology*, **2021**, 295, 117168	5.3	5

72	Material modelling and its application to creep-age forming of aluminium alloy 7B04. *Manufacturing Review*, **2015**, 2, 19	1.4	4
71	Prediction and assessment of springback in typical creep age forming tools. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2013**, 227, 1340-1348	2.4	4
70	Knowledge Based Cloud FE Simulation of Sheet Metal Forming Processes. *Journal of Visualized Experiments*, **2016**,	1.6	4
69	Clarification of the effect of temperature and strain rate on workpiece deformation behaviour in metal forming processes. *International Journal of Machine Tools and Manufacture*, **2021**, 171, 103815	9.4	4
68	A study of various heating effects on the microstructure and mechanical properties of AA6082 using EBSD and CPFE. *Journal of Alloys and Compounds*, **2020**, 818, 152921	5.7	4
67	A CDRX-based material model for hot deformation of aluminium alloys. *International Journal of Plasticity*, **2020**, 134, 102844	7.6	4
66	Microstructure evolution and mechanical properties of Ti2AlNb/TiAl brazed joint using newly-developed TiNiNbZr filler alloy. *Progress in Natural Science: Materials International*, **2020**, 30, 410-416	3.6	4
65	HR-STEM investigation of atomic lattice defects in different types of precipitates in creep-age forming AlZnMgCu aluminium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 815, 141213	5.3	4
64	Determination of a Set of Constitutive Equations for an Al-Li Alloy at SPF Conditions. *Materials Today: Proceedings*, **2015**, 2, S408-S413	1.4	3
63	An experimental and numerical study of feasibility of a novel technology to manufacture hot stamping dies with pre-constructed tube network. *International Journal of Advanced Manufacturing Technology*, **2020**, 111, 2919-2937	3.2	3
62	Constitutive modelling of a T74 multi-step creep ageing behaviour of AA7050 and its application to stress relaxation ageing in age formed aluminium components. *Procedia Engineering*, **2017**, 207, 281-286		3
61	Comparison of creep deformation rates during load and strain controlled multi-step creep ageing tests on AA7050 **2017**,		3
60	An investigation of a new 2D CDM model in predicting failure in HFQing of an automotive panel. *MATEC Web of Conferences*, **2015**, 21, 05011	0.3	3
59	Analysis of new Gleeble tensile specimen design for hot stamping application. *MATEC Web of Conferences*, **2015**, 21, 05013	0.3	3
58	The Effect of Process and Model Parameters in Temperature Prediction for Hot Stamping of Boron Steel. *Advances in Mechanical Engineering*, **2013**, 5, 829379	1.2	3
57	A MULTISCALE CRYSTAL PLASTICITY ANALYSIS OF DEFORMATION IN A TWO-PHASE STEEL. *Journal of Multiscale Modeling*, **2009**, 01, 1-19	0.8	3
56	Predictions of the Mechanical Response of Sintered FGH96 Powder Compacts. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **2020**, 142,	1.8	3
55	Study on Springback Behavior in Creep Age Forming of Aluminium Sheets. *Advanced Science Letters*, **2013**, 19, 75-79	0.1	3

54	An Investigation of Deformation Effects on Phase Transformation in Hot Stamping Processes. *SAE International Journal of Materials and Manufacturing*, **2016**, 9, 501-505	1	3
53	Experimental and modelling techniques for hot stamping applications. *Procedia Manufacturing*, **2018**, 15, 6-13	1.5	3
52	Static recrystallization study on pure aluminium using crystal plasticity finite element and phase-field modelling. *Procedia Manufacturing*, **2018**, 15, 1800-1807	1.5	3
51	Elastic-plastic buckling analysis of stiffened panel subjected to global bending in forming process. *Aerospace Science and Technology*, **2021**, 115, 106781	4.9	3
50	Biaxial test method for determination of FLCs and FFLCs for sheet metals: validation against standard Nakajima method. *International Journal of Mechanical Sciences*, **2021**, 209, 106694	5.5	3
49	Development of novel differential velocity sideway extrusion techniques to fabricate lightweight curved structural components. *Procedia Manufacturing*, **2020**, 50, 125-128	1.5	2
48	In-situ Micro-tensile Testing and X-ray Micro-tomography based FE Modeling of Open-cell Metal Foam Struts and Sandwich Panels **2014**, 4, 197-202		2
47	The effect of morphological imperfections on damage in 3D FE analysis of open-cell metal foam core sandwich panels. *International Journal of Mechanical Sciences*, **2013**, 75, 377-387	5.5	2
46	HFQ forming of AA6082 tailor welded blanks. *MATEC Web of Conferences*, **2015**, 21, 05006	0.3	2
45	Constitutive modelling of creep-ageing behaviour of peak-aged aluminium alloy 7050. *MATEC Web of Conferences*, **2015**, 21, 12008	0.3	2
44	Investigation of FE model size definition for surface coating application. *Chinese Journal of Mechanical Engineering (English Edition)*, **2012**, 25, 860-867	2.5	2
43	An Integrated Approach for Virtual Microstructure Generation and Micro-Mechanics Modelling for Micro-Forming Simulation **2007**, 203		2
42	Experimental investigation and modelling of hot forming B4C/AA6061 low volume fraction reinforcement composites. *Journal of Theoretical and Applied Mechanics*,457	1.3	2
41	Experimental studies of necking and fracture limits of boron steel sheet under hot stamping conditions. *Journal of Materials Processing Technology*, **2022**, 302, 117481	5.3	2
40	Micromechanical Modelling of Void Healing. *Advanced Structured Materials*, **2013**, 1-8	0.6	2
39	Investigation on evolution of the alpha phase during cross wedge rolling of TC6 blade perform. *Procedia Manufacturing*, **2018**, 15, 168-175	1.5	2
38	Effect of initial tempers on mechanical properties of creep-aged AA2050. *Manufacturing Review*, **2019**, 6, 8	1.4	1
37	Development of similarity-based scaling criteria for creep age forming of large/extra-large panels. *International Journal of Advanced Manufacturing Technology*, **2019**, 101, 1537-1551	3.2	1

36	A study on ratio and linearity of strain path in in-plane biaxial tensile test for formability evaluation. *Procedia Manufacturing*, **2020**, 50, 584-588	1.5	1
35	An investigation of damage healing in high temperature compressive forming process. *Procedia Manufacturing*, **2020**, 50, 602-608	1.5	1
34	Material modelling for creep-age forming of aluminium alloy 7B04. *MATEC Web of Conferences*, **2015**, 21, 12006	0.3	1
33	An effective method for determining necking and fracture strains of sheet metals. *MethodsX*, **2021**, 8, 101234	1.9	1
32	Review of recent developments in manufacturing lightweight multi-metal gears. *Production Engineering*, **2021**, 15, 235-262	1.9	1
31	Feasibility study of a novel hot stamping process for Ti6Al4V alloy. *MATEC Web of Conferences*, **2018**, 190, 08001	0.3	1
30	Experimental and numerical study of creep age forming of AA2050 plates with sparse multi-point flexible forming tool. *Procedia Manufacturing*, **2018**, 15, 1016-1023	1.5	1
29	Effect of initial temper on mechanical properties of creep-aged Al-Cu-Li alloy AA2050. *MATEC Web of Conferences*, **2018**, 190, 12006	0.3	1
28	Experimental studies of the efficient use of flexible tool in creep age forming. *MATEC Web of Conferences*, **2018**, 190, 13002	0.3	1
27	Effect of the thickness reduction of specimens on the limit strains in thermomechanical tensile tests for hot-stamping studies. *Manufacturing Review*, **2018**, 5, 11	1.4	1
26	Solid-state welding and microstructural features of an aluminium alloy subjected to a novel two-billet differential velocity sideways extrusion process. *Journal of Materials Processing Technology*, **2021**, 296, 117189	5.3	1
25	A universal mass-based index defining energy efficiency of different modes of passenger transport. *International Journal of Lightweight Materials and Manufacture*, **2021**, 4, 423-433	2.2	1
24	Tool path planning of consecutive free-form sheet metal stamping with deep learning. *Journal of Materials Processing Technology*, **2022**, 303, 117530	5.3	1
23	FE Simulation of the residual stress reduction in industrial-sized T-section component during a newly proposed manufacturing process. *Procedia Manufacturing*, **2020**, 50, 492-497	1.5	0
22	Modelling and experimental research in hot precision forging of shaft gear. *MATEC Web of Conferences*, **2015**, 21, 02005	0.3	0
21	Development and determination of unified viscoplastic constitutive equations for predicting microstructure evolution in hot forming processes. *International Journal of Mechatronics and Manufacturing Systems*, **2011**, 4, 387	0.8	0
20	Experimental and numerical investigations on buckling behaviour of stiffened panel during creep age forming. *Thin-Walled Structures*, **2022**, 172, 108940	4.7	0
19	Investigation of stress effect on creep, precipitation and dislocation evolution of Al–Li alloy during creep age forming. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 836, 142723	5.3	0

18	A review on solid riveting techniques in aircraft assembling. *Manufacturing Review*, **2020**, 7, 40	1.4	0
17	Process parameters effect on high-temperature friction and galling characteristics of AA7075 sheets. *Materials and Manufacturing Processes*, **2021**, 36, 967-978	4.1	0
16	An upper bound solution for deformation field analysis in differential velocity sideways extrusion using a unified stream function. *International Journal of Mechanical Sciences*, **2022**, 107323	5.5	0
15	Investigation of deformation behaviour with yield point phenomenon in cold-rolled medium-Mn steel under hot stamping conditions. *Journal of Materials Processing Technology*, **2022**, 306, 117623	5.3	0
14	Micro-mechanics Modeling for Micro-forming Processes **2015**, 733-748		
13	Investigation of material flow behaviour and microstructure during differential velocity sideway extrusion. *Procedia Manufacturing*, **2020**, 50, 226-230	1.5	
12	On the lower limit of misorientation of grain boundaries in hot forging of AA7050. *Procedia Manufacturing*, **2020**, 50, 744-748	1.5	
11	Formability investigation using a new test design for hot stamping processes. *International Journal of Materials and Product Technology*, **2017**, 54, 3	1	
10	An experimental investigation for macro-textured tool in hot stamping. *MATEC Web of Conferences*, **2015**, 21, 05005	0.3	
9	An Approach for Modelling Carbon Homogenization Processes of Steel in Micro-Scale **2013**, 3081-3090		
8	Micro-Mechanics Modeling for Micro-Forming Processes **2010**, 366-376		
7	An Investigation of the Mechanical Properties of Open Cell Aluminium Foam Struts: Microtensile Testing and Modelling. *Advanced Structured Materials*, **2013**, 53-63	0.6	
6	Damage in advanced processing technologies **2020**, 143-172		
5	Modeling and Optimization Methods in Forming Processes **2021**, 237-251		
4	Experimental Study and Modelling of Stress Relaxation Ageing Behaviour and Post-form Mechanical Properties in Creep Age Forming of Al-Zn-Mg Alloy. *Minerals, Metals and Materials Series*, **2021**, 877-889	0.3	
3	Simulation of austenite formation of 60Si2CrA steel using internal state variable model. *Procedia Manufacturing*, **2018**, 15, 1872-1878	1.5	
2	Stress-Relaxation Age Forming of a Component with Complex and Large Curvatures: Simulation and Manufacturing. *Minerals, Metals and Materials Series*, **2021**, 921-934	0.3	
1	A CDM-based unified viscoplastic constitutive model of FLCs and FFLCs for boron steel under hot stamping conditions. *International Journal of Damage Mechanics*,105678952211056	3	